

By-Email

Date: 27/05/2024

To,
The Additional Director,
Ministry of Environment and Forest & Climate Change,
Eastern Region Office,
A/3, Chandrasekharpur,
Bhubaneswar-751023

Subject: Submission of half-yearly compliance report on the stipulated environmental clearance terms and conditions in respect of Joda West Iron and Manganese Mine of M/s TATA Steel Ltd., for the period from October'2023 to March'2024.

Reference:

Ref.No.: MGM/P&E/ 227

1) MoEFCC's Letter Ref No: J-11015/86/2004-IA. II(M) dated 13th September 2005.

2) MoEFCC's notification vide S.O-5845 (E), dated 28th November 2018.

Respected Sir,

We are herewith submitting the six-monthly compliance report on the status of the implementation of the conditions stipulated in environmental clearance awarded to us vide MoEFCC's Letter Ref No: J-11015/86/2004-IA. II(M) dated 13th September 2005 in respect of Joda West Iron and Manganese Mine of M/s TATA Steel Ltd. for the period from October'2023 to March'2024 for your kind perusal.

This is in reference to the above referred MoEFCC's notification, the six-monthly compliance report is being submitted only in soft copy mode, shared with your good office at e-mail @ roez.bsr-mef@nic.in.

We believe the above submission is in order.

Thanking You,

Yours Faithfully,

F: TATA STEEL LTD.

Joda West Iron & Manganese Mines,

Ferro Alloys Mineral Division

Encl: As above.

Copy To:

 Zonal Office Kolkata, Central Pollution Control Board, South end Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata, West Bengal 700107.

2) The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012.

3) The Regional Officer, State Pollution Control Board, Baniapat, DD College Road, Keonjhar, Odisha-758001.

Your (Environment Clearance) application has been Submitted with following details						
Proposal No	IA/OR/MIN/11664/2005					
Compliance ID	59702898					
Compliance Number(For Tracking)	EC/M/COMPLIANCE/59702898/2024					
Reporting Year	2024					
Reporting Period	01 Jun(01 Oct - 31 Mar)					
Submission Date	27-05-2024					
IRO Name	ARTATRANA MISHRA					
IRO Email	jhk109@ifs.nic.in					
State	ODISHA					
IRO Office Address	Integrated Regional Offices, Bhubaneswar					

Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.

Half Yearly Compliance Report 2024 01 Jun(01 Oct - 31 Mar)

Acknowledgment

Proposal Name	Joda West Manganese Ore Mine of M/s Tata Steel, Dist. Keonjhar, State-Odisha {Production Capacity: 1.80 LTPA of Manganese Ore}, ML Area 1437.719 Ha.
Name of Entity / Corporate Office	Tata Steel
Village(s)	N/A
District	KENDIJIHAR

District KENDUJHAR

Proposal No.	IA/OR/MIN/11664/2005
Plot / Survey / Khasra No.	N/A
State	ODISHA
MoEF File No.	No.J-11015/86/2004- IA.II(M)

Category	Non-Coal Mining
Sub-District	N/A
Entity's PAN	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

Six Monthly EC Compliance Report for Joda West Iron & Mn Mine Project Proponent: Tata Steel Limited Project

Tata Steel Limited Project
Type: Mining (Opencast)
Mineral: Manganese

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

Remarks (if any)

Tata Steel

	Project Area as per EC Granted	Annual Project Area in Possession
Private	9.347	71.273
Revenue Land	229.029	119.894
Forest	1199.34	1246.55
Others	0	0
Total	1437.716	1437.716999999999

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Manganese Ore	Tons per Annum (TPA)	31/03/2026	180000	178830	180000

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	Dimension of retaining wall at the toe of OB dumps and benches within the mine to check run-off and siltation should be based on the rainfall data.

PPs Submission: Complied

While designing network of garland drains, checkdams, retention walls and rain passes for slope protection as well as arresting silt and sediment during monsoon season, following factors are considered such as Rainfall (peak scenarios), catchment area, gradient slope and retention hours.

Date: 24/05/2024

2 AIR QUALITY MONITORING AND PRESERVATION Trace Metals such as Ni, Co, As and Hg should be analyzed in dust fall and soil samples for at least one year during summer, monsoon and winter seasons. If concentrations of these metals are found below the standards then with prior approval of MOEF this specific monitoring could be discontinued.

PPs Submission: Complied

Yearly monitoring of trace metals both in dust fall and soil samples for parameters like Ni, Co, As and Hg is being carried out. So far, no such trace mineral has been detected in the collected samples. An abstract of dust fall analysis carried out during year FY 24 is enclosed herewith.

Date: 27/05/2024

Mining shall not be undertaken in areas of forestland within the lease for which necessary approval/ forestry clearance has not been obtained.

PPs Submission: Complied

The present leasehold area of Joda West Iron & Manganese Mine is 437.719 ha. Out of which, forest land and non-forest land prevails over 1246.552 ha and 191.167 ha. respectively. Stage-II Forest clearance has been accorded vide letter no F F.No.8-89/2004-FC, dated 10.08.2007 for 436.678 ha of forest land. FC for balance area of 809.874 ha (Sabik Forest & Balance forest) has been applied. Presently mining is restricted to only 436.678 ha diverted forest land, non-forestland of 191.167 ha and some portions of the broken-up forestland (broken up prior to 1980).

Date: 24/05/2024

4 MINING PLAN

A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

PPs Submission: Complied

A Final Mine Closure Plan (FMCP) shall be prepared in accordance with the provisions laid down under the "GUIDELINES FOR PREPARATION OF FINAL MINE CLOSURE PLANS" as prescribed by Indian Bureau of Mines. As per the said guideline, FMCP is required to be prepared 2 years in advance from the date of closure/life of the mine. However presently during the approval of Mine Plan, a progressive mine closure plan (PMCP) is being submitted for approval. During the process of such approval, based on the "area put to use" for excavation and allied activities, we have deposited a sum of Rs. 30.5990 Cr to Indian Bureau of Mines (IBM) in the form of Bank Guarantees towards financial assurance for the implementation of measures of PMCP provisions. This approval was communicated to the Regional office, MoEF & CC, Bhubaneswar vide our letter no MGM/P&E/106/23 dated 31.03.2023. Copy of the letter is enclosed herewith.

5 LAND RECLAMATION

Topsoil should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.

PPs Submission: Complied

No topsoil generated during the period October 2023 to March 2024 since mining has not advanced into any virgin land. Whenever topsoil is generated, it will be stacked in a designated place earmarked for the same. Topsoil recovered during mining operation earlier has been concurrently used for plantation over matured dumps and for roadside avenue plantation.

Date: 24/05/2024

6

WASTE MANAGEMENT

OB and other wastes should be stacked at earmarked sites only and should not be kept active for long periods of time. Plantation should be taken up for soil stabilization along the slopes of the dump and terraced after every 5-6 m of height and overall slope angle shall be maintained not exceeding 28°. Sedimentation pits shall be constructed at the corners of the garland drains. Retention/toe walls shall be provided at the base of the dumps.

PPs Submission: Complied

Mining and all its associated operational activities are ensured in line with the provisions of approved mining plan. Dedicated sites have been earmarked for storing overburden (OB) and other waste and/or minerals/ mineral rejects. The status thereof is updated in the surface plan on quarterly basis. All matured dumps are stabilized by bio-reclamation with the plantation of Vetiver grass on the slopes and native varieties of forestry saplings. The dump is terraced at every 5-6 mtrs and overall slope is maintained well within 28°. Environmental Protection Measures ensured at site especially for the dump management aspects are as follows: 1. Network of Garland Drains and/or Toe Walls 2. Intermittent Sedimentation tanks/settling pits 3. Slope stabilization by means of coir matting and/or vetiver grass plantation 4. Final rehabilitation measures by means of native varieties of forestry saplings both on the slope and benches of the dump. Copy of latest surface plan along with photos of the implemented dump stabilization measures is enclosed herewith.

Date: 24/05/2024

7 MONITORING AND PRESERVATION

Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Storm water return system should be provided. Storm water should not be allowed to go to the effluent treatment plant during high rainfall/super cyclone period. A separate storm water sump for this purpose should be created.

PPs Submission: Complied

Existing catch drains & garland drains have been constructed all along the periphery of dump at the toe, so that silt/sediments in the surface runoff can be arrested. Size, gradient and length of the drains and the ponds are adequately made with respect to the size of the same to take care of the peak flow during the rainy season. The garland drain, catch drains and sedimentation pits are periodically desilted and maintained properly every year before the onset of monsoon. The storm water which gets collected in the lower most areas of the leasehold, during rains, is connected to a series of drains which lead to D Quarry mine pit to store the water and also recharge the ground water table.

Date: 24/05/2024

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AIR QUALITY MONITORING AND PRESERVATION

WATER OUALITY

Mineral and OB transportation shall be done in trucks/dumpers covered with tarpaulins. Vehicular emissions should be kept under control and regularly monitored. Suitable measures should be taken to check fugitive emissions from haulage roads, transfer points, etc.

PPs Submission: Complied

Mineral Transportation is ensured by tippers and all the trucks are covered with tarpaulins before

issuance of transit permits for their onward transportation. All the despatch vehicles are mandatorily required to have "Pollution under Check (PuC)" certificate to enter the mine. To restrict the fugitive emissions form haul roads, the following measures have been taken up: -1. Fixed Sprinkling System for the Haul Roads 2. Mist Canons at sorting yards 3. Automatic Wheel wash facility at the exit point of the mines 4. Dust suppression by means of mobile water tanker (capacity 10Kl) deployed for Haul Roads and other locations. 5. Fixed sprinkling arrangement at railway siding

9

GREENBELT

A green belt of should be raised around ML area (296.163 ha), along roads, OB dump sites (64.774 ha), township (21.242 ha) and in other areas within the lease (227.63 ha) covering a total area of not less than 409.809 ha by planting native species in consultation with local DFO/Agriculture department. The density of the trees should be around 2500 plants per ha.

PPs Submission: Complied

Plantation activities are ensured in accordance with the provisions of Progressive Mine Closure Plan (PMCP). Tata Steel Limited has developed a site-specific biodiversity management plan for implementation of measures for protection and conservation of biodiversity in and around the mine. Accordingly, emphasis on the principles of restoration is ensured by following scientific plantation strategies with the help of mixed varieties of native (non-exotic) forestry saplings in the scheme of plantation. So far, around 114.830 hectares of area (including waste dump, safety zone, back filled area and avenue plantation zones) have been covered under plantation with 500164 nos of saplings (approx.). In the process of afforestation, the mine has ensured rehabilitation of around 45.1 hectares over OB dump, 62.881 ha of Avenue Planation and 6.848 ha of Safety zone plantation where the saplings have attained self-sustaining stage. The mine management has also established a centralized nursery over an area of 2000 sq-mtr with a generation potential of around 1 lakh saplings/year within the lease area for promoting greenbelt/ afforestation related measures which caters to all the sapling requirement of all the three leases in Manganese Group of Mines. Glimpses of Greenbelt and associated afforestation measures undertaken at mine level is enclosed herewith.

Date: 24/05/2024

10

WATER QUALITY MONITORING AND PRESERVATION

Groundwater shall not be used for mine operations. Prior approval of CGWA shall be obtained for using groundwater.

PPs Submission: Complied

Ground water is not being used for any mining associated processes. There are no wet beneficiation plants within the lease. Majorly water is used for meeting domestic requirements of office areas, rest shelters areas for workers, supply to villagers in nearby villages nearby and Haul Road dust suppression purposes. Presently, mine draws around 146 KLD of ground water from 3-4 bore wells which is exclusively used for drinking & domestic consumption and is also supplied to local villagers for drinking purposes. As there is seepage evidenced for one of the quarries thus it's dewatering potential of 246KLD has been included in the purview of NOC granted by CGWA vide NOC no. CGWA/NOC/MIN/REN/2/2023/7840 which is valid till 22nd July 2024. Copy of the said NOC is enclosed herewith.

Date: 24/05/2024

11

MINING PLAN

Mining shall not intersect groundwater. Prior permission of the MOEF and CGWA shall be taken to mine below water table.

PPs Submission: Complied

As per the approved mining plan and status thereof, it is conclusive that ultimate pit depth of the mine at the end of mine plan period will not intercept the regional ground water table however during the advancement of mining operation at Gangeiguda Quarry feeble seepage from one of its face (attributed to some localized aquifer) was encountered and accordingly a detailed hydrogeological investigation was carried out in this regard by engaging a CGWA accredited/empanelled agency. With the help of ground water modelling studies, it was estimated that peak seepage for mine would be around 246 KLD. Based on the above said studies and deliberations at CGWA, NOC was granted to Joda west mine for the Abstraction of 146 KLD (from bore wells) and 246 KLD from Mine pits (as seepage) vide NOC no. CGWA/NOC/MIN/REN/2/2023/7840 valid till 22nd July 2024.

WATER QUALITY MONITORING AND PRESERVATION

Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. The monitoring should be done for quantity four times a year in pre-monsoon (April / May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forest and the Central Ground Water Authority quarterly.

PPs Submission: Complied

A network of open dug wells and bore wells have been identified for monitoring of GW levels and quality in and around the mine areas. A copy of the abstract of GW level recorded during the monitoring period is enclosed herewith.

Date: 24/05/2024

WATER QUALITY
MONITORING AND
PRESERVATION

Trace metals such as Fe, Cr+6, Cu, Se, As, Cd, Hg, Pb, Zn and Mn shall be periodically monitored at specific locations in both surface water downstream and in ground water at lower elevations from mine area, in consultation with the OSPCB and State Ground Water Board. Suitable treatment measures shall be undertaken in case levels are found to be higher than permissible limits.

PPs Submission: Complied

Water Quality parameters are regularly tested for both surface water and ground water. Monitoring reports are submitted to SPCB from time to time. So far from the water quality analysis result of both surface and ground water attributes, no such adverse impacts have been observed when compared with applicable permissible limits/standards prescribed. An abstract of water quality assessment for Oct'23 to Mar'24 is enclosed herewith.

Date: 27/05/2024

14 Statutory compliance

"Consent to Operate" should be obtained from SPCB before expanding mining activities.

PPs Submission: Complied

Consent to Operate for Production of Mn Ore for 180000 TPA and Operation of stationary Screening Plant of 1X70 TPH has been accorded by SPCB, Odisha vide letter No. 4234/IND-I-CON-186 dated 17-03-2022 which is valid up to 31/03/2026. A copy of the valid CTO is enclosed herewith.

Date: 27/05/2024

15 Statutory compliance

A plan for conservation Plan for conservation of endangered fauna including the Indian Elephant found in and around the mine area shall be prepared and implemented in consultation with identified agencies/institutions and with the State Forest Department. The Plan should be dovetailed with that prepared/under implementation/ proposed for the endangered fauna found in the Reserve Forest in the buffer zone of the project site. The costs for the specific activities/tasks should be earmarked in the Conservation Plan and shall not be diverted for any other purpose. Year-wise status of the implementation of the Plan and the expenditure thereon should be reported to the Ministry of Environment & forests, RO, Bhubaneshwar.

PPs Submission: Complied

A site specific wildlife conservation plan has been approved by PCCF, Bhubaneswar, Odisha and Chief Wildlife Warden Odisha vide memo no. 7726/1WL-SSP-93/2015 dated 31.08.2015. Following funds have been deposited by PP to State Forest Dept till date for – • Rs. 9,79,48,000/- for the implementation of various provisions of site-Specific wildlife conservation plan like avifauna monitoring, solar fencing and other • Rs 6,18,21,917/- for the implementation of regional wildlife conservation as per the demand notices. A copy of the approval of site-specific wildlife conservation plan is enclosed herewith.

General Conditions

Sr.No.	Condition Type	Condition Details
1	MINING PLAN	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.

PPs Submission: Complied

There is no change in the mining technology and scope of working of the mines. Mining is carried out as proposed by using shovel-dumper combination. Dry mobile screening is carried out with the help of a 1X75 TPH screen plant.

Date: 27/05/2024

2

MINING PLAN

No change in the calendar plan including excavation, quantum of manganese ore and waste should be made.

PPs Submission: Complied

Production and excavation quantum is regulated by the Mine Plan approved by Indian bureau of Mines (IBM). No change in the calendar plan has been made. Total annual production achieved from the mine is well within the EC limit of 1.8 Lakh tonnes per annum.

Date: 27/05/2024

3 AIR QUALITY
MONITORING AND
PRESERVATION

Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO2, NOx & CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features, and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO2, NOx & CO) should be regularly submitted to the Ministry including its regional office at Bhubaneshwar and the State Pollution Control Board / Central Pollution Control Board once in six months.

PPs Submission: Complied

In consultation with Regional Office, State Pollution Control Board (Keonjhar Region), 06 nos of dedicated Ambient Air Quality monitoring station have been established and regular monitoring is being carried out twice a week. Photographs of fixed type platforms properly geotagged with the spatial coordinates have been shared with State Pollution Control Board and the same was accepted to SPCB during renewal of CTO. In addition to this, 12 nos of locations have also been identified in the buffer zone for regular monitoring. Abstract of Ambient Air Quality monitoring result for the period during October 2023 to March 2024 is enclosed herewith.

Date: 27/05/2024

4 AIR QUALITY
4 MONITORING AND
PRESERVATION

Drills should be wet operated or with dust extractors and controlled blasting should be practiced.

PPs Submission: Complied

Wet drilling concept is already in place and practiced. Exploratory drills have been provided with inbuilt DE system. Controlled blasting technique with NONEL is in practice. Ground vibrations are being checked for every blast done in the mine. Blasting parameters are assessed periodically by engaging agency like CIMFR, Dhanbad. Based on the recommendation of such assessments, the blasting rounds are designed and fired.

Date: 27/05/2024

5 AIR QUALITY
5 MONITORING AND
PRESERVATION

Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumpers/ trucks, loading & unloading points should be provided and properly maintained.

PPs Submission: Complied

Following measures are ensured for containment of fugitive dust emission: 1. Mobile water tanker (cap-10Kl) for Haul Roads, Dump yards and other locations) 2. Mist Canons (30 LPH) for sorting

yards and screening plants 3. Fixed Sprinkling system for static haul roads 4. Automatic Wheel wash facility at Railway Siding and exit point of the mines. Photographs of the fugitive dust pollution control measures deployed at the mine are enclosed herewith.

6

Noise Monitoring & Prevention

Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/ muffs.

PPs Submission: Complied

Ear plugs & Earmuffs are provided to the workers working in mining operation & DG operations and other high noise generating equipment's. Provision of acoustic enclosures are invariably ensured before the installation of such noise generating instruments. Following monitoring measures are ensured for the regulation of noise pollution associated impacts: 1. Monitoring of Noise level (both ambient noise survey) and workplace noise survey is carried out on monthly basis using an integrated sound level meter. 2. Occupational Noise Exposure assessment is also carried out for the persons engaged in high noise generating areas on quarterly basis by sampling individual workers over eight-hour durations. Noise level monitoring data for the period during October 2023 to March 2024 is enclosed herewith.

Date: 27/05/2024

7

WATER QUALITY MONITORING AND PRESERVATION Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

PPs Submission: Complied

For effective management of effluent following mitigative measures are ensured at the mine level: 1. Effluents from Workshop/Garage: Vehicle washing system and associated operational activities are provided with separate catchment drains and finally the effluents are collected in Oil-Water Separation system having skimming arrangements for oil and grease 2. Wastewater/runoff collected from the mine pits: Since there is no wet process thus no wastewater is generated at any stage from any process. 3. Surface runoff is channelized and accumulated in the mine pit. After adequate retention period, the same is pumped to water treatment plant for final treatment before domestic consumption. 4. Periodically water samples from mine pits and oil-water separation system are collected and analysed by an NABL accredited agency for checking compliance w.r.t applicable standards.

Date: 27/05/2024

8

MISCELLANEOUS

Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.

PPs Submission: Complied

Environmental Monitoring services are carried out by engaging an NABL Accredited agency having it's laboratory recognized by Ministry of Environment, Forest & Climate Change. Though no captive laboratory has been established at site but the entire services is outsourced to the third party who have an environmental laboratory within 20 Kms from the mine.

Date: 27/05/2024

9

Human Health Environment

Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

PPs Submission: Complied

Personnel Protective Equipment's (PPEs) are being mandatorily used by all the workers as per applicability. It is regularly ensured at the entry points. Safe Operating Procedure based training is imparted to all the workers apart from the initial VT training. Periodical Medical Examination of employees (departmental & contractual) are conducted as per prescribed norms of Mines Rule, 1955.

Besides, Occupational health surveillance assessment as mentioned below are also carried out: 1. Personal Dust Sampling & Free Silica exposure assessment by a DGMS approved agency. 2. Hand-Arm Vibration & Whole Body Vibration Exposure Assessment report by a DGMS approved laboratory 3. Mn Poisoning test (periodic) by a medical laboratory. A sample of vibration exposure assessment carried out in the past is enclosed herewith. A separate environmental management cell with suitable qualified 10 **MISCELLANEOUS** personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization. PPs Submission: Complied The company has made a robust arrangement for reviewing and monitoring the implementation of Date: Environment management plan. A Centralized Environmental Management Department has been set 27/05/2024 up headed by the Chief (Environment) and supporting staff. The operation and legal sections at mine level include Head (Mine Planning), Head (Environment), Senior Manager - Mine Planning, Area Manager (RM Environment), Environment Engineer, Chemists, etc. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other **MISCELLANEOUS** 11 purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar. **PPs Submission:** Complied A dedicated cost Centre for maintaining all environmental expenditure is maintained in a separate Date: GL account having a unique cost centre mapped in the SAP system. All sorts of environmental 27/05/2024 protection related expenditures are booked in the said cost centre for accounting purpose. The details of expenditure incurred during the last 3 financial years is as under: • FY-2021-22: Rs. 274.5 Lakhs • FY-2022-23: Rs. 272.92 Lakhs • FY-2023-24: Rs. 378.33 Lakhs The State Pollution Control Board should display a copy of the 12 **MISCELLANEOUS** clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days. Date: **PPs Submission:** Complied 27/05/2024 The EC documents was displayed in the office of Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days. The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the issue of the clearance letter informing that the project has 13 **MISCELLANEOUS** been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://envfor.nic.in. and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar. Date: PPs Submission: Complied 27/05/2024 A copy of Environmental Clearance with regard to Joda West Manganese Mine was published in Oriya News Papers Dharitri & Sambad on 17.10.2005. The Regional Office of this Ministry located at Bhubaneshwar shall monitor compliance of the stipulated conditions. The project 14 Statutory compliance authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

The company has been extending full co-operation to the officers of the Regional Office and other

PPs Submission: Complied

Date:

27/05/2024

A copy of clearance letter will be marked to the co Panchayat/local NGO, if any, from whom suggestion has been received while processing the proposal.						
The clea	ubmission: Complied trance letter has been uploaded o to Chairman, Municipal Council	on the website of the Company. Copy of the clearance learn, Joda on 12.01.2006.	Date: 27/05/2024			
		Visit Remarks				
Last Site	Visit Report Date:	N/A				
Additiona	al Remarks:					

DUST FALL ANALYSIS RESULT ABSTARCT

DUST FALL ANALYSIS (SUMMER SEASON – APRIL'24)												
	Heavy Metal concentrations (g/m²-mo)											
Location	Arsenic	Cadmium	Copper	Hexavalent Chromium	Iron	Lead	Manganese	Mercury	Selenium	Zinc		
Stocking Yard, D Quarry	<0.0016	<0.0016	1.657	<0.0003	1.835	0.0018	0.546	<0.0003	<0.0016	0.0213		
Stocking Yard, Gangaigora	<0.0016	<0.0016	1.4099	<0.001	14.009	<0.0016	6.637	<0.0010	<0.0016	0.025		
Admin Office, Bichhakundi	<0.0016	<0.0016	0.953	<0.0023	31.603	<0.0016	6.993	<0.0023	<0.0016	0.0586		
Haul Road, H Quarry	<0.0016	<0.0016	0.9533	<0.0005	5.993	<0.0016	1.718	<0.0005	<0.0016	0.0154		
Dumping Yard, H Quarry	<0.0016	<0.0016	1.0779	<0.0003	2.86	0.0027	0.567	<0.0003	<0.0016	0.0379		
Screen Plant, D Quarry	<0.0016	<0.0016	0.8275	<0.0007	15.409	<0.0016	4.034	<0.0007	<0.0016	0.0199		



The Dy. Director General of Forest (FC)
Ministry of Environment, Forest & Climate Change,
Regional Office (EZ), Government of India,
A-3, Rail Vihar, Chandrasekharpur,
Bhubaneswar – 751023

Ref. No. MGM / P&E / 106 / 23

Date: 31.03.2023

Sub: Submission of Approved Review of Mining for Joda West Iron & Manganese Mine over an area of 1437.719 ha for the period 2023-24 to 2027-28.

Dear Sir,

With reference to above cited subject, we would like to inform you that the Review of Mining Plan & Progressive Mine Closure Plan in respect of Joda West Iron & Mn. Mine was submitted to Indian Bureau of Mines under Rule 17(2) of the MCR 2016 & Rule 23 of MCDR 2017 and duly approved vide letter no. MCDR-MiFL0Mn/3/2022-BBS-IBM_RO_BBS, Dtd. 28.03.2023.

Hence, we are enclosing herewith the approved copy of the Review of Mining Plan for your kind perusal.

Thanking you,

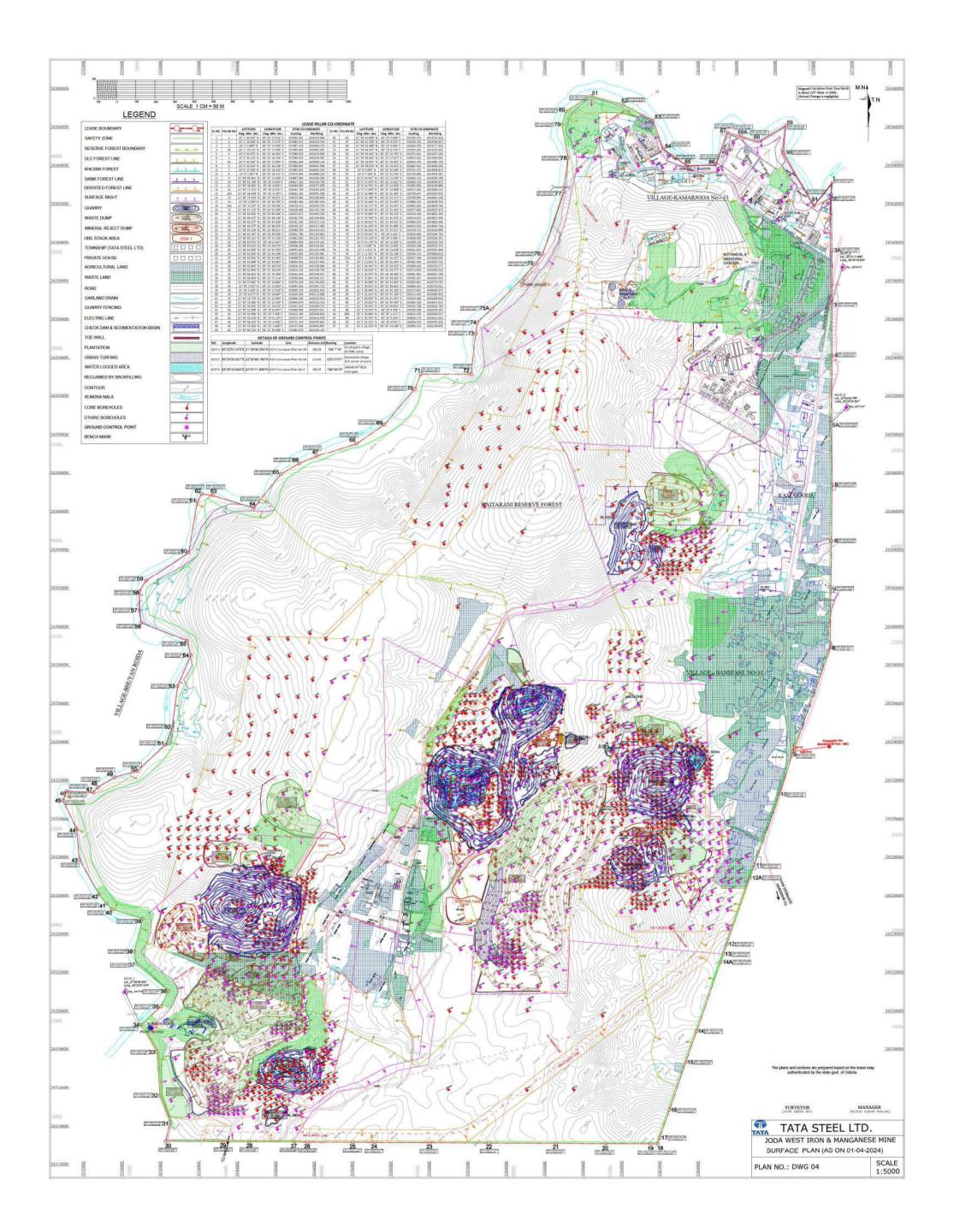
Yours faithfully, F: Tata Steel Ltd.

(Sabysachy Mishra) Qualified Person & Head (Mine & Production Planning), Ferro Alloys & Minerals Division,

Encl: As above.



TATA STEEL LTD.



Old Stabilized Dump







Garland Drains, & Retaining walls









Photographs of Plantation Area of Joda West Mines









भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name: Joda West Manganese Mines Ta					ata S	Steel I	Ltd			1	11.0						
Project Address:						Joda West Manganese Mines, Tata Steel Ltd, Post Office: Bichakundi, Tahsil / Taluk: Barbil / Champua											
Vi	llage:				Camp	Of Tis	sco	Block:				Jo	Joda				
Di	strict:				Kend	ujhar				State: Odisha							
Pi	n Code:											500	1	2			
Bich				Bichh	Joda West Iron And Manganese Mine Of M/s Tata Steel Limited, Village- Bichhakundi, Post- Bichhakundi, Block-joda, Kendujhar, Odisha, Joda, Kendujhar Odisha - 758034												
Ad	ddress of Co	GWB Re	gional	Office :				d Water Board South Eastern Region, Bhujal Bhawan, Khandagi Bhubaneshwar, Khordha, Odisha - 750001						ndagiri			
1.	NOC No.:		CGW	/	C/MIN/R	EN/2/2	0023/7	78.40	de	2. D	ato o	of Issue	nco	13/	05/202)3	
3.	Application	n No.:	_)R/MIN/		.023/1	040		4. C	atego			Sa		.0	
5.	Project Sta	atus:		ng Wit irment	h Additio	onal G	round	Water	6		NOC Type:			Renewal			
7.	Valid from	า :	23/07	7/2022			1	8. Vali			alid ι	id up to: 22/07/2024					
9.	Ground W	ater Abs	traction	Permi	tted:												
	Fresh	Water			Saline	Wate	r	Dewatering Tota				Total	otal				
	m³/day	m³/y	ear	m³	/day	m ^s	³/year		m³/day			m³/year			m³/day m³/year		
	146.00	14308		6.7	V.				246.00)	89790.00						
10.	Details of	ground w	vater ab	stracti	on /Dew	/atering	g stru	ctures									
			Tota	al Exis	ting No	.:4					Total F			Proposed No.:1			
			1)	DW	DCB	BW	TW	MP	MP	u [DW	DCB	BV	٧	TW	MP	MPu
	Abstraction		7 %	0	0	4	0	0	0		0	0	0		0	0	0
	Dewatering			0	0	0	0	0	0		0	0	0		0	1	0
	/- Dug Well; D								ine Pit;M	IPu-M	ine Pu	mps		0044	20.00		
	Ground W						•	` '							60.00		
12. Number of Piezometers(Observation wells) to constructed/ monitored & Monitoring mechanism						No. of Piezometers				Monitoring Mechanism							
											М	anual	DWL	R**	DWLR With Telemetry		
	**DWLR - Digital Water Level Recorder								1 0 1				0				

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC
- 8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable)

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation Ministry of Jal Shakti, Govt. of India

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

> पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE



UI

Ramjan Hutting

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Banaikala Basti

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Hudi Sahi Basti

Komar Joda Basti

Khuntapani Basti

Anacon Laboratories Pvt. Ltd. Nagpur Lab

• FP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 4 + 91 8045685558 ■ Email : info@anacon.in

https://www.anaconlaboratories.com

Test Report

No.

Village Name

State - Odisha-758 034. District - Kendujhar, M/s Joda East Iron Mine

(M/s TATA Steel Limited)

Ground Water Table Measurement October-2023

	16/10/2023 Gov.	16/10/2023 Dt (Mr. Jagba	16/10/2023 Dugwel	16/10/2023 Dugwell	Date of Measurement Details
Dugwell	Gov. Dugwell	Dugwell (Mr. Jagbandhu Nayar)	Dugwell near Road	Dugwell near School	Details of location
4 27	3.52	5.16	4.97	4.16	Static Water Level from Measuring Point in Mtrs. (Level in mbmp)
0.50	0.70	0.80	0.80	0.80	Measuring Point i.e. MP distance above ground level in Mtrs. (magl)
3 77	2.82	4.36	4.17	3.36	Water level Below Ground Level in Mtrs. = mbmp - magl

-- End of Report----

Chemist: > 15

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Chemist: -- > () }"

Anacon Laboratories

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Ramjan Hutting

16/11/2023

Dugwell

0.50

0.70

3.11

0.80

4.59

0.80

4.36

4

Banaikala Basti

16/11/2023

S

Hudi Sahi Basti

6/11/2023

2

Komar Joda Basti

Khuntapani Basti

Anacon Laboratories Pvt. Ltd. Nagpur Lab

♥ FP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 🌣 + 91 8045685558 🕿 Email : info@anacon.in

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Test Report

No.

Village Name

Date of

Measurement 16/11/2023 16/11/2023 Mr. Jagbandhu Nayar) Dugwell near School Details of location Dugwell near Road **Ground Water Table Measurement** Gov. Dugwell Dugwell November-2023 Static Water Level from Measuring Point in Mtrs. (Level in mbmp) 3.81 5.16

above ground level in Mtrs. (magl)

Mtrs. = mbmp - magi

0.80

3.68

Measuring Point i.e. MP distance

Water level Below Ground Level in

M/s Joda East Iron Mine

State - Odisha-758 034 (M/s TATA Steel Limited) District - Kendujhar,

Authorized Signatory

----End of Report----

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

◆ FP-34, 35, Food Park, Five Star Industrial Estate,

https://www.anaconlaboratories.com

Test Report

w

No.

M/s Joda East Iron Mine State - Odisha-758 034. (M/s TATA Steel Limited) District - Kendujhar,

Ground Water Table Measurement December-2023

Village Name	Date of Measurement	Details of location	Static Water Level from Measuring Point in Mtrs	Measuring Point i.e. MP distance	Water level Below
Khiintanan: D				-	Ground Level in
14/12/2023	14/12/2023	Dugwell near School	160	m MICIS. (magl)	mus momp - magl
Komar Ioda Basti	14/15/5055	Tocalogi	4.62	0.80	3.82
Hend mast	14/12/2023	Dugwell near Road	л 20		. 0.01
Hudi Sahi Basti	14/12/2023	Dugwell	0.00	0.80	4.58
		(Mr. Jagbandhu Navar)	5.47	080	
Banaikala Basti	14/12/2023	Cov Dun 11		. 0.00	4.67
Ramian Hutting		Cov. Dugwell	4.16	0.70	
Ract:	14/12/2023	:		0.70	3.46
Dasti	270717111	Dugwell	4.79	0.50	4 29

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 + 91 8045685558 Email: info@anacon.in
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Mo Test	Rep	<u>ort</u>			
Water level Below Ground Level in Mtrs. = mbmp - ma	3.93	5.14	5.01	4.06	4.42
Measuring Point i.e. MP distance above ground level in Mtrs. (magl)	0.80	0.80	0.80	0.70	0.50

4.92

Dugwell

18/01/2024

Ramjan Hutting

Basti

Banaikala Basti

4

Ground Water Table Measurement

January-2024

M/s Joda East Iron Mine

(M/s TATA Steel Limited)

District - Kendujhar,

State - Odisha-758 034.

Static Water Level from Measuring Point in Mtrs. (Level in mbmp)	4.73	5.94	5.81	4.76
Details of location	Dugwell near School	Dugwell near Road	Dugwell (Mr. Jagbandhu Nayar)	Gov. Dugwell
Date of Measurement	18/01/2024	18/01/2024	18/01/2024	18/01/2024

-- End of Report----

Chemist:-

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Khuntapani Basti

Village Name

SI.

Komar Joda Basti

Hudi Sahi Basti



Banaikala Basti

12/02/2024

Ramjan Hutting

12/02/2024

Dugwell

Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Komar Joda Basti

12/02/2024

Dugwell near Road

Hudi Sahi Basti

12/02/2024

(Mr. Jagbandhu Nayar)

Dugwell

5.92

0.80

5.12

81

0.70

4.11

0.50

4.62

6.03

0.80

.23

4.82

0.80

4.02

Gov. Dugwel

Khuntapani Basti

12/02/2024

Dugwell near School

No.

Village Name

Measurement

Date of

Details of location

Static Water Level from Measuring Point in Mtrs. (Level in mbmp)

above ground level in Mtrs. (magl)

Mtrs. = mbmp - magl Water level Below Ground Level in

ound Water Table Measure		State - Odisha-758 034.	District - Kendujhar,	(M/s TATA Steel Limited)
IIrei	800			

M/s Joda East Iron Mine

Measuring Point i.e. MP distance

	0
	5/
*	3
+	-6

--- End of Report----



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 MIDC Butibori, Nagpur, Maharashtra, India - 441 122
 + 91 8045685558 Email: info@anacon.in
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Test Report

M/s Joda East Iron Mine

(M/s TATA Steel Limited)
District - Kendujhar,
State - Odisha-758 034.

Ground Water Table Measurement

March-2024

S1. No.	Village Name	Date of Measurement	Details of location	Static Water Level from Measuring Point in Mtrs. (Level in mbmp)	Measuring Point i.e. MP distance above ground level in Mtrs. (magl)	Water level Below Ground Level in Mtrs. = mbmp - magl
1	Khuntapani Basti	18/03/2024	Dugwell near School	4.92	0.80	4.12
2	Komar Joda Basti	18/03/2024	Dugwell near Road	6.13	0.80	5.33
3	Hudi Sahi Basti	18/03/2024	Dugwell (Mr. Jagbandhu Nayar)	6.04	0.80	5.24
4	Banaikala Basti	18/03/2024	Gov. Dugwell	4.87	0.70	4.17
5	Ramjan Hutting Basti	18/03/2024	Dugwell	5.26	0.50	4.76

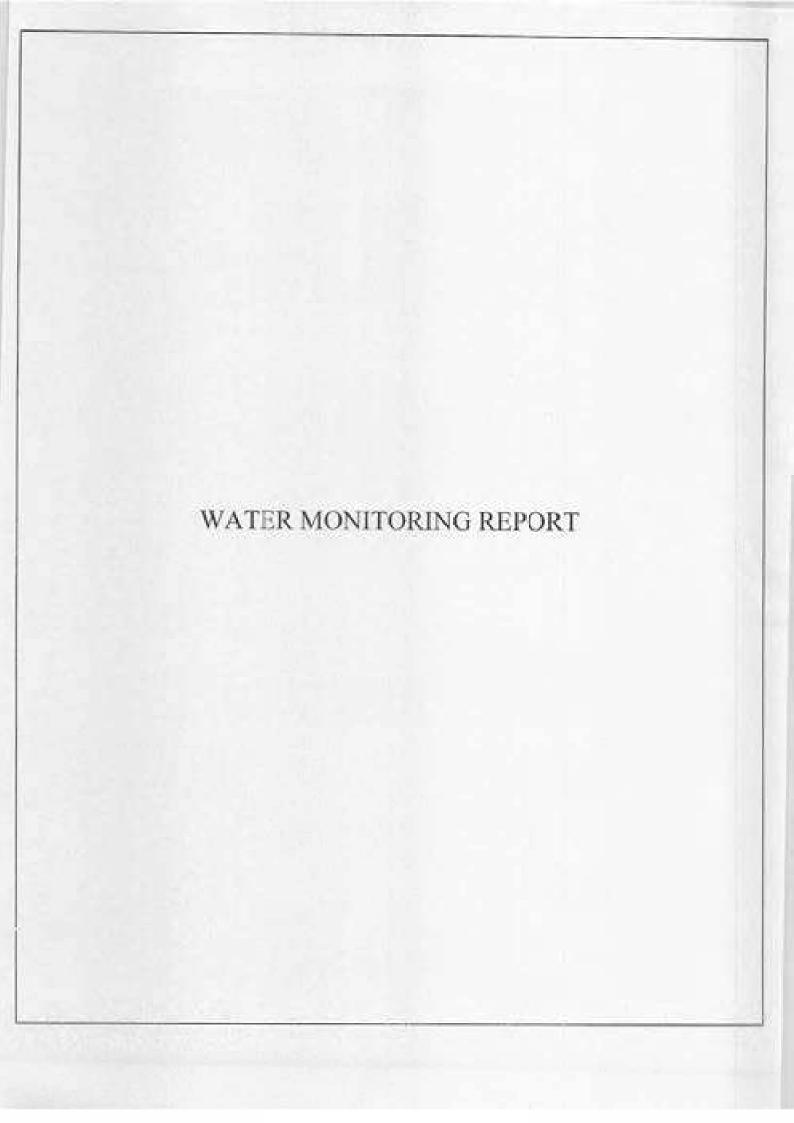
Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

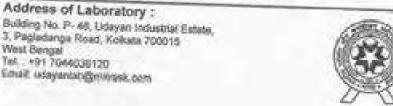
Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



Doc No.: MSK/GEN/19/07







Scan for Portal

ULR: TC-895024000004135F

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

Al/Po. - Joda, Diet. - Keorphar, Odietra - 758034 India

TEST REPORT

TC-6950

Report No. !

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24N1128S

13/03/2024

MSKNB/FD/2023-24/03/JJ553X

06/03/2024

06/03/2024 - 13/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of semple	Water & Residue in Water
Unique identification of sample(if any)	Orlinking Water
L. Date of sampling	NA .
S. Place of sampling	05/03/2024
. Environmental constitues 4	BICHAKUDI WTP-OUTLET
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Identification of the second Uses	18:17614(P-5) 2022
Identification of the personnel performing sampling by MSK.	PRANAB SETHI, LALIN NAIK

Report No.: MSKPUFD/2023-24/N11265

Sample No.: MSKNB/FD/2023-24/03/JISS3X

RESULT

Bi No.	Parameter	UOM	100000	In Commence of the last		
1	Telephone Company	- VOIN	Method	Acceptable Limit	Permissible Link	Result
	Cadmium as Co	mor	US 3025 (Part 2)	0.005	No Relexision	80L/01 0.00
2	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	0.05	No relaxation	001.00
3	Silver as Ag	mg/i	3S 3025 (Part 2)	0.1	THE TAX STREET, STREET	BDL(DL 0.00
4	Sitioa (as SiO2)	mg/!	IS 3025 (Part 35)	The second secon	No Relaxation	1
5	Selenium as Se	mg/l		Not Specified	Not Specified	DL(DL:0.1)
8	Married as Ma		IS 3025 (Part 2)	0.01	No relexation	BDFIDF:0:00
7	Mercury as Hg	mg/l	IS 3025 (Part 48)	0.001	No relaination	BOL(DL 9.00
8	Zinc as Zn	mg/l	IS 3025 (Part 2)	8	15	2) Detry (TV -D 000
9	Colour	Hazien	IS 3025 (Part 4)	5	16	DL(DL-1.0)
10	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	3.05	No relaxation	DL(DL:0:02)
	Flyoride as F	mg/l	IS 3025 (Part 60)	1.0	1.5	BDL(DL:0.2)
51	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500- NO3- 8	45	No Relaxation	100
12	Mickel (as Ni)	mg/l	IS 3025 (Part 2)			0:56
13	Arsenic as As	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL:0.02
14	Marigonese as Mn			8.01	No Relaxation	BOLIDL 0.000
15	Lead as Pb	mg/l	IS 3025 (Part 2)	2.1	0,3	BDL(DL:0.02)
16		mg/t	IS 3025 (Part 2)	0.01	No relaxation	80L(0L:0.006
70	Copper as Cu	mg/l	18 3025 (Part 2)	0.05		80L(DL 0.02)

Reviewed By:

Atracje Sage

Mr. Arthur Salie, Mr. Pad Gargay

In Size Oheros, Executed Overlan

Inflored Signality

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Bengal

Name & Address of Customer:

ANPo. - Joda, Dist. - Keorjhar, Odisha - 758034 India

Tata Steel Ltd (MGM)_Joda West

Tel :+91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000004135F

Doc No.: MSK/GEN/19/07

ТЕФТИНО «Инферсијон

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/N11285

13/03/2024

MSKNB/FD/2023-24/03/JJ553X

06/03/2024

08/03/2024 - 08/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
3. Unique identification of sample(if any)	Drinking Water
4. Date of sampling	NA III
5. Place of sampling	05/03/2024
1. Environmental condutions of the	BICHAKUDI W7P-OUTLET
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2 -5) drig C Cold chain maintained
I Identification of the nemerous desired	(S:17614(P-25) 2022
I Identification of the personnel performing sampling by MSK	PRANAS SETHI, LALIN NAIK

Report No.: MSKPL/FD/2023-24/N1128S

Sample No. : MSKNB/FD/2023/24/03/JJSSSX

RESULT

81 No.	The same of the sa					
2000	Parameter	BOM	Method	Acceptable Limit	Permissible Limit	Denvis
1	Total collision	in00ml	(5.15185	The state of the s	222222	Result
2	E doll	4600mi		Not Ovtectable	Not Applicable	Detected
	-	1 seconts	16 15186	No Detectable	Not Applicable	Not Detected

Opinion:

Acceptable limit & Permissible limit are as per IS:10500:2012

Statement of Conformity NA

END -

Services

5th StAthepus Chalmours Executive Microbiological

National Signature

Минтуле Списацију

Electricitive Microscoppies

The mounts very be the interproposed.
The Teal Report shad not be reproduced by full, without the permission of biles S.K. Provide Lapited.
The reserved peri of sample(s) are channel analysis (Non - privateline sample(s) Food, Water) shad be returned by 15 days from the date of sesses of the Report Personalite campings, shad be minimal? Since

First reserved part of energods no character energy (ACC) - personnel energy (Food, Tester) and the food of energy (Food, Section of the Food of energy) and the food of energy (Food, Section of the Food of energy) and the food of energy (Food, Section of the Food of energy) and the energy (Food, Section of energy) and the Shreetii Cestin (Str. Four), 748, A.J.C. Bose Philes, Kobuna - 7000 HJ, West Bengal, India Tea : 91 03 40142000 (2000000 Fax - 91 35 20000000 Strait : Hingmitten.com Website : area / Historic com

ALP O. BARBIL Ward No-8 Dist: Keorehar, Odisha - 758035 CIN: U51909WB1955PTC023037



T : +91 94370 09815,94370 09820,94370 75269

E barbi@mérask.co.in

W: www.mitrask.com

Report No. MSKGL/ED/202	ANALYSIS REPORT OF DRINKING WATER	Date: 25.03.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	05.03.2024 MINES (IWIMM)	
Location	Bichalamati UCTD o	

Bichakundi WTP Out let (JWIMM)

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SI. No.	The state of the s	Unite	Method	Norms as	per IS: 10500- 2012	
1-	Ammonical Nitrogen			Destrable Limit	Permissible Limit	Results
2		mg/l	APHA (24shEdition),4500-NH3-F	0.5	No Relaxation	-0.4
100	Calcium (as Ca)	mg/l	APRA (24th Edition),3500 Ca 8	75	200	MAL
3	Chloride (as Cl)	mg/l	APIIA (24th Edition),4500 -CI B	250	1000	14.4
4	Odour	Hazen			1000	8
5	Electrical conductivity	us/cm	3025 (Part-5)-1903;Rffm:2012	Agreeable	Agreeable	Agreeable
6	Iron (as Fe)		APHA (24th Edition),25108	200	757	109
7	The second secon	mg/l	APRIA (24th Edition),3500 Fe B	0.3	No Relaxation	<0.05
	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	-
8	Phenolic Compound (asC6HSON)	mg/I	APRA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<0.001
9	Potaxsium (as K)	mg/l	APHA (24th Edition), 3500 KB	444	NO.	
10	Salinity	PSU	APHA (24th Edition), 25288			<1.0
11	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	(page		0.087
12	Sulphate (as SO4.)	mg/I			-	4,1
13	Taste	-	APHA (24th Edition) 4500 SO42-E	200	400	1.4
14	S. S. M. Control of the Control of t	Notic	IS 302S (Part 8)-1983 Rffm:2012,(O)	Agreeable	Agreeable	Agreeable
110	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 23208	200	600	The state of the s
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	500	2000	44
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200		66
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	200	600	48
8	Turbidity	N.T.U		***	***	<2.5
9	pH value at 25 deg C		APHA (24th Edition), 21308	1	5	<1.0
3	his raine at 50 deft C	None	APHA 24* Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	7.77

For Mitra S. K. Private Limited

Authorized Signatory

TEST THE WINGSOME



Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal

Tel.: +91 7044036120 Email: udayanlab@mbrask.com

Tata Steel Ltd (MGM)_Joda West

AtiPo - Joda, Dist. - Keonjhar, Odisha - 758034 India



TEST REPORT





ULR: TC-695024000004134F

Name & Address of Customer:

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/71128V

13/03/2024

MSKNB/FD/2023-24/03/GL452K

06/03/2024

05/03/2024 - 13/03/2024

Permanent Facility.

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
3. Unique Identification of sample(if any)	Crinking Water
4. Date of sampling	NA:
5. Place of eampling	05/03/2024
5. Environmental conditions during sampling & Transport	Biohakund WTP-INLET
7. Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
8. Identification of the personnel performing sampling by MSK	IS:17814(P-5) 2022
the administrating sampling by MSK	PRANAB SETHI, LALIN NAIK

Report No.: MSKPL/FD/2023-24/11/28V

Sample No.: MSKNB/FD/2023-24/03/GL452K

RESULT

Chemical						
SI No.	Parameter	UOM	Wethod	Acceptable Limit	Permissible Limit	-
1	Cadmium as Cid	mg/l	15 3025 (Red 2)			Result
2	Total Chromium as Cr	mod	The second secon).003	No Relaxation	BDL(DL:0.0
3	Silver as Ag	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BOL/DL 0.0
4	Silica (as SiO2)		IS 3025 (Part 2)	0.1	No Relaxation	BOLIDLOO
5	Child College Street College C	ngit	IS 3025 (Part 35)	Not Specified	Not Specified	BEX.(DL:6:
	Selenium as Se	mgit	IS 3025 (Part 2)	2.01	No relaxation	BOLIDL 0.00
6	Mercury as Hg	mgit	IS 3025 (Part 48)	6.60t		BOLIDLOD
7	Zinc as Zn	Ngm	IS 3025 (Part 2)		No relexation	21
8	Colour	Hacen	(S 3025 (Part 4)	5	15	BDL(DL:00
9	Cyanide as CN	mg/l	IS 3025 (Part 27) Sect		15	BOL(DL:1:0
10	Fluoride as F	mg/l	18 3025 (Part 60)	0.05	No relaxation	BOL(DL:0.0
33	Nitrate as NO3	1000	APHA (24th EDITION) 4500-	1.0	1.5	BDL(DL:0.2
12		mgt	NO3-B	45	No Relaxation	80L(0L:0.4
13	Nickel (as Ni)	mg/t	IS 3025 (Part 2)	6.02	No Relaxation	80L(DL 0.00
	Arsenic as As	mg/l	IS 3025 (Part 2)	0.01		BOL/DL 0.00
14	Mangariese as Mn	mgit	IS 3025 (Part 2)		110.100.000.000	
15	Lead as Pb	Tom	Charles Control of the Control of th	0.1	0.3	BOL(OL:0.02
16	Copper as Cu		IS 3025 (Part 2)	0.01	No retaxation	BOLIDE 0.00
	-10000-78398	mg/l	18 3025 (Part 2)	0.05	1.5	BDL(DL:0.02

Reviewed By:

Atrayce Sour

Ms. Almone Sime Mr. Plei Geophy Sr. Kim, Charlel, Evenages Charles Ailfroitive Signatury

Late to diverge

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Bengal

Tel.: 491 7044036120 Emeil: udayanlab@mirask.com

Name & Address of Customer:

A&Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM)_Joda West







ULR: TC-6950240000004134F

Doc No.: MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Report No. :

Date:

MSKPL/FD/2023-24/71128V

13/03/2024

Sample No. : Date of receipt of sample:

MSKNB/FD/2023-24/03/GL452K 06/03/2024

Date(s) of performance:

06/03/2024 - 06/03/2024

Location of performance of

Permanent Facility

Reference No. & Date:

3000156017/056; Date - 16/09/2020

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Drinking Water
Unique Identification of sample(if any)	NA COLOR DE LA COL
6. Date of sampling	05/03/2024
5. Place of eampling	Biohakundi WTP-Jay ET
Environmental conditions during sampling & Transport	(2 -6) deg C Cold chain claintained
, Sampling Plan & Method used	IS:17614(P-25) 2022
E. Identification of the personnel performing sampling by MSK	PRANAB SETHI, LALIN NAIK

Report No.: MSKPL/FD/2023-24/71128V

Sample No.: MSKNB/FD/2023-24/03/GL452K

RESULT

Micro Biolo	gy		Title consumer.			
31 No.	Parameter	JOM	Method	Acceptable Limit	One-minates v I - II	4
1	Total politors	#IODml	IS 15185	The state of the s	Permissible Limit	Result
-2	E poli	#IOOmi		Not Detectable	Not Applicable	Detected
		Houni	IS 15185	Not Detectable	Not Applicable	Not Detected

Opinion:

Acceptable limit & Permissible limit are as per IS:10500:2012

Statement of Conformity

END -

Mit Michigan Crokentepty Executive Mindustrians

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September 1

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Executive Microtocopput

The results raise only to the second susset.
This Test Report shall not be improduced except in Ed., without the permission of Miss E.K. Private Limited.
The reserved part of sample(s) for described analysis (Non-personality sample(s) Food, Vesser) shall be retained for 15 days from the same of securities. Test Report, Personality shall be retained 2 days.

The reserved part of samplesputer of debugs propose proposes temporary root, values are reserved, or 10 days as not the Set Section of the Part Se

Head Office:

Streets Cente (Sin Floor), 749, A.J.C. Bose Read, Collete - 700016, West Hange, India. Tel - 61 35 40143000-7 2000007 Fax: 31 30 21050000 Elizad - etb@minats.com Veldade - ever milrosk.non

Page 1 of f

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E : barbi@mitrask.co.in W : www.mbrask.com

Report No. MSKGL/ED/202	3-24/005487	Date: 25.03.2024
	ANALYSIS REPORT OF DRINKING WATER	Date: 23.03.2029
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	05.03.2024	
Location	Bichakundi WTP Inlet (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER 15: 10500 - 2012

SL No.	Test Parameters	Unite	Method		per IS: 10500- 2012	Lailin
4	Ammonical Nitrogen			Desirable Limit	Permissible Limit	Results
		mg/l	APBA (24thEdition),4500-NH3-P	0.5	No Relaxation	<0.1
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca 8	75	200	
3	Chloride (as Cl.)	mg/l	APBA (24th Edition),4500 -Cl B	250	1900	12.8
4	Odour	Hazen		0.000		12
5	Electrical conductivity	us/cm	3025 (Part-5)-1983:Rffm:2012	Agreeable	Agreeable	Agreeable
25111	fron (as Fe)	1000	APHA (24th Edition),2510B		-	93
6	Lacet College State	mg/l	APHA (24th Edition), 3500 Fe B	0.3	No Relaxation	<0.05
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	
8	Phenolic Compound (arC6H5OH)	mg/l	APHA (24th Edition), 55300 (Chloroform Extraction)	0.001	0.002	<0.001
9	Potussion (as K)	mg/l	APHA (24th Edition), 3500 K 8	100		23.000
10	Salinity	PSU	APHA (24th Edition), 25208	3098		<1.0
11	Sodium (as Na)	mg/l		-		0.049
12	Sulphate (as SO4)		APIIA (24th Edition), 3500 Na 8		-	3.8
ATEC		mg/l	APHA (24th Edition) 4500 SO42-E	200	400	1.8
13	Taste	None	IS 3025 (Part 8)-1983 Rffm:2012_(0)	Agreeable	Agreeable	Agreeable
14	Total Alkalinity (as CaCO3)	mg/I	APHA (24th Edition), 2320B	200	600	
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	500	1,000	32
16	Total Hardness (as CaCO3)	mg/l	APRA (24th Edition), 2340 C	23333	2000	58
17	Total Suspended Solid (as TSS)			200	600	40
18		mg/l	APRA (24th Edition),2540D	223		<2.5
	Turbidity	N.T.U	APRA (24th Edition), 21308	1	5	<1.0
19	pH value at 25 deg C	None	APHA 24th Edition, 2023,4500,H+8	6.5-8.5	No Relaxation	7.3

Checked by:-

For Mitra S. K. Private Limited

Authorized Signatory





Building No. P. 48. Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015

West Bengal

Tel.: +91 7044036120

Email: udayanlab@micrask.com





Soun for Portal

ULR: TC-695024000003856F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_loda West

AsPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No.:

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/X11327

09/03/2024

MSKNB/FD/2023-24/03/YDS64N

02/03/2024

02/03/2024 - 09/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique identification of eample(if any)	NA NA
4. Date of sampling	01/03/2024
5. Place of sampling	Bichakundi Vegitable Garden Peod
6. Environmental conditions during sampling 6. Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17614(P-23) 2021
8. Identification of the personnel performing sampling by MSK	LALIN NAIK

Report No.: MSKPL/FD/2023-24/X11327

Sample No.: MSKNB/FD/2023-24/03/YDS64N

RESULT

51 No.	Parameter	6006	Method	Result
1	Arsenic as As	mg/l	15 3025 Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	
3	Cádmium as Cd	mg/l	IS 3025 (Part 2)	BOL(DL:0.25) BOL(DL:0.001)
4	Colour	Histon	IS 3025 (Part 4)	30
5	Copper as Cu	mg4	IS 3025 (Part 2)	BDL(DL-0.02)
6 7	Cyanide as CN	mpt	IS 3025 (Part 27) Sect	BDL/DL 0.02)
	Fluoride as F	mg/l	IS 3025 (Part 60).	0.33
8	Hexavalent Chromium (as Cr+6)	mg/t	IS 3025 (Part 52) Sec2	BDE(DL-9.01)
9	Lead as Pb	reget	IS 3026 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BOL(DL:0.02)
51	Mercury as Hg	figm	IS 3025 (Part 48)	BOLIDL 0.0002
52	Nitrate as NC3	ngri	APNA (24th EDIT)ON) 4500-NO3- 8	0.70
13	Zinc as Zn	mg/i	IS 3025 (Part 2)	BOL(DL-0.02)

Opinion:

NA:

Statement of Conformity NA.

EMP -

Markey and Par-

ere States, Mil. Florid Champily

Sr. Exa Chemia Enougye Overlist.

Automat Egistery

Squaker

Designation.

Doc No.: MSK/GEN/19/07





TC-6950



Scan for Portal

ULR: TC-895024000003856F

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

Address of Laboratory :

West Bengal Tel.: +91 7044036120 Email: odayanlab@mbrask.com

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

ANPo - Jode, Diet. - Keonjhar, Odisha - 758034. India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/X11327

09/03/2024

MSXNB/FD/2023-24/03/Y DS64N

02/03/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000155017/056, Date - 16/09/2023

Blological

We haraby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
3. Unique Identification of sample(if any)	SURFACE WATER
4. Date of sampling	NA .
5. Place of sampling	01/03/2024
6. Environmental conditions during sampling & Transport	Bichakundi Vegitable Garden Fond
7. Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
I identification of the continued	(S.17614) P-25) 2022
identification of the personnel performing sampling by MSK	LALIN NAIK

Report No.: MSKPUFD/2023-24X11327

Sample No.: MSKNB/FD/2023-24/03/YDS64N

RESULT

licro Biology				
SI No.	Paremeter	UOM	Memod	Panis
1	Total colform	MPN/100ns	Standard memoda or the examination of water & waste vater, 24th edtn,	Result 790

Opinion:

NA

Statement of Conformity

NA

END

Mile Maltheyer Challestovay Designation.

Executive Montassique

Published Stephen

Mit. Mathemer Chalcoborty

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The Third Report shall not be reproduced except in full, will not the permission of Manufacturing of Manufacturing Controllers (April 1000) and the respective for the Sandard Controllers and the relational Controllers of the Sandard Controllers and the Sandard Controllers and the Relationship of the Sandard Controllers and the Relationship of the Sandard Controllers and the Sandard Controllers and

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The reserved part of earspects for Microsological analysis (Non - periodicals surreplay) Food, Gooded Wester, Smalled Scinit shall be retained for 15 days from the date of Issue of the Treat Report.

Streets Gerale (36: Floor), 746, A.J.C. Bone Road, Robots - 700016, West Bergol, India, 21:33-40143000 (20:60007 Flor: 91:33-2010000) Email: info@misses.com Website: www.nationk.com

Page 1 of 1

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E : barbi@mitrask.co.in W : www.mdrask.com

Report No. MSKGL/ED/2023-24/005475 Date: 25.03.2024 ANALYSIS REPORT OF SURFACE WATER Name of the Client M/s. TATA STEEL LIMITED Name of the Mines IODA WEST IRON & MANGANESE MINES ([WIMM] Date of sampling 11.03.2024 Location 3ichakundi Vegetable Garden Pond (JWIMM)

CHEMICAL ANALYSIS OF WATER

51. No.	Test Parameters Biochemical Oxygen Demand (as	Unite	Method	Max. Tolerance Limit as per CPCB	Results
	BOD)	mg/l	APRA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3):	mg/I	APHA (24th Edition), 2340 C		1000
3	Chemical Oxygen Demand (COD)	rog/l	APHA (24th Edition), 52288		10
4	Chloride (as CI)	mg/l	APHA (24th Edition), 4500 -CJ 3	250	<4.0
5	00	mg/l	APRA 24th Edition, 2023 4500-0-C/G	(25)	8
6	Electrical conductivity	us/cm	APRIA (24th Edition), 2510B	344	6.5
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	***	109
8	Magnesium (as Mg)	mg/l	The second secon	3	0.2
9	Odour		APHA (24th Edition), 3500 MgB		1.9
10	Oil and Grease	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeabl
11		mg/l	APHA (24th Edition), 5520B	10	<5.0
12	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), \$530C (Chloroform Extraction)	1	< 0.001
3	Salinity	PSU	APRA (24th Edition), 25208	- Company	
	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	785	0.057
4	Total Alkalinity	mg/I	APHA (24th Edition), 52108		2.6
5	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C		44
6	Total Hardness (as CaCO3)	mg/l	APRIA (24th Edition), 2340 C	777	66
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	FALLOS	32
2002	pH value at 19.2 deg C	None	APIEA 24th Edition, 2023 4500-1+B	50/100	47
		2.555275	4500-1+B	5,5-9.0	6.83

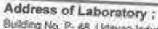
Checked by: (184)

For Mitra S. K. Private Limited

- ES00 **Authorized Signatory**

Doc No. MSK/GEN/19/07





Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Tet : +91 7044038120 Email: udayantab@mitrask.com



TC-6950



ULR: TC-69502400000385SF

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Jode, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/F1132P

09/03/2024

MSKNB/FD/2023-24/03/XS9N5W

02/03/2024

02/03/2024 - 09/03/2024

Permanent Facility

3000158017/056, Oale - 16/09/2023

Chemicad

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

2. Description of sample	Water & Residue in Water
Unique Identification of sample(if any)	SURFACE WATER
Date of sampling	NA NA
Place of sampling	01/03/2024
Environmental conditions during sampling & Transport	Sonia River Near Mahanadi Guast House
Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
Identification of the personnel and	IS:17614(P-23) 2021
I. Identification of the personnel performing sampling by MSK	LALIN NAIK

Report No.: MSKPL/FD/2023-24/F1132P

Sample No.: MSKNB/FD/2023-24/03/XSBNSW

RESULT

SI No.	Parameter	100000		
1	Arsenic as As	MOM	Matrod	Result
2	Boron as B	mgri	IS 3025 (Part 2)	BDL(DL-0.005
3	Cedmism as Cd	mg/l	(5 3025 (Part 2)	BDL(DL:0.25)
4	Colour	Nom	85 3925 (Part 2)	BOL(DL:0:001
5	Cooper as Cu	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
0	Cyande as CN	mg/l	19 3025 (Part 2)	BOL/DL 0.02)
7	Fluoride on F	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
8	Hexavalent Chromium (as Cr+6)	Tigm	85 3025 (Part 80)	BDL(DL:0:2)
9	Lead as Pb	mg/l	IS 3025 (Part 52) Sec2	BDL(DL-0.01)
10	Manganose as Mn	mg/l	IS 3025 (Part 2)	BIDL(DL-0.005)
11	Mercury as Hg	ring/s	15 3025 (Part 2)	BDL(DL:0.02)
12	Nitrate as NO3	mg/t	IS 3025 (Part 48)	BOL(DL 0 0002)
13	Zinc as Zn	mg/l	APHA (24th EDITION) 4500-NO3-B	0.65
	Territory word died i	mg/l	IS 3025 (Part 2)	BOL(DL:0.02)

Opinion:

NA.

Statement of Conformity NA

FND

Führbiered By

MILES SALA No Array Street line (Florida Garqui)

St. Elle Charlet Cocotto Charles

Astronome Signatury

Districtions

Doc No MSK/GEN/19/07













ULR: TC-695024000003855F

TC-6950

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Address of Laboratory:

West Bengal

Tel.: +91 7044036120 Email: udeyanlab@mitrask.com

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015

At/Po. - Jods, Dief. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/F1132/F

09/03/2024

MSKNB/FD/2023-24/03/X S9N9W

02/03/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000158017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
. Unique (dentification of sample(if arry)	SURFACE WATER
Date of sampling	NA.
Place of sampling	01/03/2024
Environmental conditions during sampling & Transport	Song River Near Mahanadi Guest House
Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
Identification of the personnel and	(S; 17014) P-25) 2022
I identification of the personnel performing sampling by MSK	CALIN NAIK

Report No. : MSKPUFD/2023-24/F1132P

Sample No.: MSKN8JFD/2023-2403/XS9N9W

RESULT

Alicro Biology		KEGOET		
SI No.	Parameter	NOM	Marnod	
1	Total oxidom	MPN/100ml	Standard methods or the examination of water & waste vater, 24th edth,	Result
Automosi	- 0.0	1 (A) 20 A 48 (100)	82718	40

Opinion :

NA. NA

Statement of Conformity

END -

Designation:

Ms. Markyper Characters Entradivo Microtestegino

Hattoriand Captains

MITTERN Chalcobo

Evidence Meanwayse

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In manufact part of samplests for Chemical stratifies (Soil, Soiler & Liquid Warie) shall be retained for CE days as por CPCR quadrative is plan; a manufacture of the first of samplests for Minochemistral analysis personal manufacture (Report, Soiler & Liquid Report, Soiler & Minochemistral analysis personal part of samplests for Minochemistral analysis personal samplests (No.1) shall be retained for Minochemistral analysis of the Nacyton. Shrache Covins (fan Poor), 748, A.J.C. Sone Road, Kvitone - 700016, West Burget, India Tel.: 97 33:401430001 23050007 Fax: 91 33 23500236

Email: ofoligedrass core Wildeste: were instruct com

AUP O BARBIL Ward No-6 Dist: Keonitar, Odisha - 758035 CIN: LIS1909WB1956PTC023037



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W: www.mitrask.com

Report No. MSKGL/ED/202		Date: 25.03.2024
	2000. 2000.2029	
wante or the Chent	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	G1.03.2024	
Location	Sona River Near Mahanadi Guest House (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APRA (24th Edition), 52168	30	
2	Calcium (as CaCo3)	rog/I	APHA (24th Edition), 2340 C	((57)	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52208	575	8
4	Chloride (es Cl.)	mg/i	APILA (24th Edition), 4500 -CI B	250	<4.0
5	DO	mg/l		- min	6
6	Electrical conductivity	us/cm	APHA 24th Edition, 2023 4500-3-C/G		6.6
7	Iron (as Fe)	1000 1000	APHA (Z4th Edition), 2510B	-	89
8		mg/l	APHA (24th Edition), 3500 Fe H	3	0.12
9	Magnesium (as Mg)	reg/l	APHA (24th Edition), 3500 Mg 8	-	2.9
31	Odour	mg/I	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Off and Grease	mg/i	APHA (24th Edition), 5520B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	nsg/l	APRA (24th Edition), 55300 (Chloroform Extraction)	/1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208		-
3	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42.E	-	0.047
4	Total Alkalinity	mg/l	APHA (24th Edition), 52168	10000	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	350	40
6	Total Hardness (as CaCO3)	mg/I	APHA (24th Edition), 2340 C	- Address	54
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition) 25400	***	32
8	pH value at 19.2 deg C	None		50/100	10
0011	E. s. series at a see neg f	NOOC	APHA 24th Edition, 2023 4500-HrB	5.5-9.0	6.59

Checked by: (650)

For Mitra S. K. Private Limited

< Som





Building No. P. 48, Udayan Industrial Estate, 3, Pagladenga Road, Kolkata 700015 West Beroad

West Bengal Tel.: +91 7044038120 Emait udayaniat-@mitrask.com





Scin for Portal

ULR: TC-695024000005274F

Name & Address of Customer:

Tate Steel Ltd.(MGM)_Jode West

At/Po. - Jode, Dist. - Keorghar, Odisha - 758034 India

TEST REPORT

Report No. :

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/M12440

27/03/2024

MSKNB/FD/2023-24/03/0L120H

14/03/2024

14/03/2024 - 27/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Water & Residue in Water
2. Description of sample	Surface Wester
Unique Identification of sample(if any)	NA.
4. Date of sampling 5. Place of sampling	13/03/2024
6. Environmental constitution of the	Keth-hutting Up Stream H-guary (Sona River).
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
8 Mentification of the reserved	IS:17614(P-23) 2021
Identification of the personnel performing sampling by MSX	Akash Xr Setty

Report No.: MSKPLFD/2023-24/M12440

Sample No.: MSKNB/FD/2023-24/03/0L120H

RESULT

homical				
51 No.	Parameter	909	I was I	
1	Arsenic as As		Method	Result
2	Boron as B	mgd	IS 3025 (Part 2)	8DL(DL:0.005)
3	Godmium as Cd	mg/l	15 3025 (Part 2)	BOL(DL 0.25)
4	Colour	nga	IS 3025 (Part 2)	BDL(OL:0.001)
5		Hazen	IS 3025 (Part 4)	BOL(DL:1.0)
8	Copper as Cu	mg/t	IS 3025 (Part 2)	BDL(DL 0.02)
	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 Part 60)	
8	Hexavalent Chromium (as Cr+5)	mg/l	IS 3025 (Part 52) Sec2	BIDL/DL:0.2)
9	Lead as Pb	mg/f		BDL(DL:0.01)
10	Manganese as Mo	mg/f	IS 3025 (Part 2)	80L(DL:0.005)
11	Mercury as Hg		IS 3025 (Part 2)	BDL(DL:0.02)
12	Nitrate as NO3	mg/t	IS 3025 (Part 48)	8DL(DL:0.0002)
13	Zinc as Zn	mg/l	APHA (24th EDITION) 4500-NO3-B	0.64
100	6.6 to 2.0	Tig/I	4S 3025 (Part 2)	8DL(DL 0.02)

Opinion:

NA

Statement of Conformity

-END -

foreigned By

Signature Signature Houseles Sode F. Garage and the Arthurs Samuel Sounds

Authorites Signatory

Digrotus

Pileton

Lab In charge

Dog No. MSK/GEN/19/07





TC-8950



Scan for Portal

ULR: TC-895024000005274F

Name & Address of Customer:

Tata Steel Ltd (MGM)_Jode West

Address of Laboratory:

West Bengal Tel. +91 7044036120 Email: udayanlab@mitrask.com

Building No. P. 48, USayan Industrial Estate, 3, Pagtadanga Road, Kolkata 700016

AsiPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/M12440

27/03/2024

MSKNB/FD/2023-24/03/0L120H

14/03/2024

14/03/2024 - 19/03/2024

Permanent Facility

3000156017/056, Dete - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been enelyzed with the following results:

Group Description of sample	Water & Residue in Water
1 Unions the out of	Surface Water
Unique identification of sample(if any) Date of sampling	NA NA
5. Place of sampling	13/03/2024
8. Environmental conditions during sampling & Transport	Keth-hutting Up Stream H-quary (Sona River).
Sampling Plan & Method used	(2-5) deg C Cold chain maintained
i. Identification of the personnel performing sampling by MSK	IS:17614(P-25) 2022
with the personnel personning sampling by MSK	Akash Kr Setty

Report No.: MSKPL/FD/2023-24/M12440

Sample No.: MSKNWFD/2023-24/03/01/120H

RESULT

SI No.	Parameter	Carrier 1	V	
	Committee of	UOM	Method	Result
1	Total coliform	MPN/100ml	Standard methods or the examination of water & waste water, 24th edgs, 92218	220

Opinion:

NA

Statement of Conformity

END -

Reviewed Dy.

Secretary.

Obsignation

His Minletyns Chalcolades Exercises Monthshoper

Mr. Materyori Charcenory

Executive Mondaylogue

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The reserved part of security is common trought and the personal or personal and the personal common of the person

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The reserved past of semple(s) for channel enables (floid, Solid-S Explicit Plants) shall be relatively for this days are part 4.97.00 guarantee 6. (Arc) is consist the open of semple(s) for channel enables (Non-) period when semple(s) if one, Seesed South shall be relatively to 15 days from the date of bases of the Report. Streets Centre (Set Floor), 748, A.J.C. Sons Breet, Roberts - TOCCHS, Water Sergel, India Feb., 91 33-40143000 (2000000) Feb. 91 33 2000000

Ernal wingstimms over Website: www.sutrask.com

AUP.O. BARBIL Ward No-6 Dist. Keonjhar, Odisha - 758035 GIN: US1909WS1956PTC023037



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W: www.mitrask.com

Report No. MSKGL/ED/202		Date: 05.04.2024
waine of the Chent	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	13.03.2024 STANGARESE MINES (JWIMM)	
Location	Keth -Hutting before H-Quarry Up Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPC8	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APRA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C		-
3	Chemical Oxygen Demand (COD)	mg/I	AFHA (24th Edition), 5220B		8
4	Chloride (as Cl)	mg/I	APHA (24th Edition), 4500 -CI B	250	<4.0
5	DO	mg/l	APHA 24th Edition, 2023 4500-0-G/G		8
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510B		6.8
7.	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	70
8	Magnesium (as Mg)	mg/1	APRA (24th Edition), 3500 Mg B	.3	0.49
9	Odour	mg/l	APHA (24th Edition), 21508	Trans.	1.9
10	Oil and Grease	mg/1	APHA (24th Edition), 55208	Agreeable	Agreeable
11		-		10	<5.0
12	Phenolic Compounds (as C6H5OH)	ing/I	APRA (24th Edition), \$530C (Chloroform Extraction)	1	<0.001
	Salinity	PSU	APHA (24th Edition), 25208		0.038
3	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	Ant	1.3
4	Total Alkalinity	mg/l	APHA (24th Edition), 52108	-	28
5	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	-	7.5
6	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	100	42
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	28
8	pH value at 23.7 deg C	None	APRA 24th Edition, 2023 4500-18-8	5.5-9.0	6.86

Checked by: (86)

For Mitra S. K. Private Limited

28000

ANP O. BARBIL, Ward No.6 Dist. Keonjhar, Odishe - 758035 CIN: U51909WB1959PTC023037 TESTING INSPECTION

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E : barbagomtrask co.in W : www.mbrask.com

Report No. MSKGL/ED/202		Date: 25.03.2024
ANALYSIS REPORT OF SURFACE WATER		
name of the Chent	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	@1.03.2024	
Location	Eeth-Hutting after H- Quarry Down Stream (IWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
I.	Biochemical Oxygen Demand (as. BOD)	mg/I	APHA (24th Edition), 52108	СРСВ	
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52208	77	8
4	Chloride (as Cl.)	mg/l	APHA (24th Edition), 4500 -(21)	250	≪4.0
5	DO	mg/l	ALL AND DESCRIPTION OF THE PARTY OF THE PART	****	6
6	Electrical conductivity	us/cm	APHA 24th Edition, 2023 4500-0-C/G	***	6.8
7	Iron (as Fe)	I De Walder	APHA (24th Edition), 25108		80
8	Magnesium (as Mg)	mg/l	APHA [24th Edition], 3500 Fe B	3	<0.05
9	Odour (as Mg)	eng/l	APItA (24th Edition), 3500 Mg 8	222	1.9
10		mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
11	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	< 0.001
12	Salinity	PSU	APRA (24th Edition), 2520B		
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 S042-E	100	0.043
14	Total Alkalinity	mg/l	APISA (24th Edition), 5210B	***	1.1
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	1200	36
6	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	1.127	48
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	FOLLOW	28
8	pH value at 26.3 deg C	None	APHA 24th Edition, 2023 4500-1+8	50/100	<2.5
	SALES CONTRACTOR OF THE SEC.	0.57500000		5.5-9.0	6.34

Checked by:

For Mitra S. K. Private Limited

Address of Laboratory :

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Tel.: +91 7044038120 Email: udayanlab@mitrask.com

Name & Address of Customer:

Al/Po. - Jode, Dist. - Keonjher, Odaha - 758034 Imfia

Tata Steel Ltd./MGMj_Joda West







Scan for Portal

ULR: 1C-895024000003854F

Doc No MSK/GEN/19/07

TESTING CHERECOCK

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/R1132N

09/03/2024

MSKNWFD/2023/24/05/P1FX83

02/03/2024

02/03/2024 - 09/03/2024

Permanent Facility

3000156017/058, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

2. Description of sample	Water & Residue in Water
Unique Identification of sample(if any)	SURFACE WATER
4. Date of sampling	NA NA
Place of sampling	01/03/2024
Sempling Star & No. 1	Baltami River (Kandra Vilage)
Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Identification of the personnel and	(S.17614) P-23) 2021
8. Identification of the personnel performing sampling by MSK	LAUN NAIK

Report No. : MSKPL/FD/2023-24/R1132N

Sample No.: MSKNB/FD/2023-24/03/P1FX83

RESULT

Constant Constant				
St Mo.	Parameter	HOM	TWEETERS	
1	Arsenic as As		Method	Result
2	Boron as B	mgn	15 3008 Peri 2)	80L(DL-0.005
3	Cadmium as Cd	tigit	35 3025 (Part 2)	BOL(DI: 0.25)
4	Colour	mgA	IS 3025 (Part 2)	BOL(DL:0.001)
5	Copper as Cu	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
6	Cyanide as CN	mgri	IS 3025 (Part 2)	BDL(DL:0.02)
7	Fluoride as F	mg/t	IS 3025 (Pml 27) Sec1	80L(DL:0.02)
8	Hexavelent Obromium (as Cr+6)	mg/t	(S 3025 (Part 60)	8DL(0L-0.2)
9	Lead as Po	mg/l	IS 3025 (Par 52) Sec2	BDL(DL:0.01)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BOL(DL 0.005)
11	Mercury as Hg	mg/t	IS 3025 (Part 2)	BDL(DL:0.02)
12	Nitrate as NO3	mg/l	IS 3025 (Part 48)	BDL(DL 0.0002)
13	Zinc as Zn	mg/l	APHA (24th EDITION) 4500-NO3- B	0.74
- 1000	NAME AND ADDRESS OF THE PARTY AND ADDRESS OF T	mg/l	IS 3025 (Part 2)	8DL(DL:0.02)

Opinion:

NA.

Statement of Conformity NA

END.

Reviewed By Signature

St. Eve. Charmil, Everyone County.

Authorizant Significacy

Address of Laboratory :

Building No. P- 46, Udayan Industrial Estate, 3, Pagladanga Road, Kokata 700015 West Bengal

Tel.: +91 7044035120 Email: udøyanlab@mkrask.com

Name & Address of Customer:

AliPo. - Jode, Dist. - Ksonjhar, Odsha - 758034 India

Tata Steel Ltd.(MGM)_Joda West







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ULR: TC-695024000003854F

Doc No : MSK/GEN/19/07

TERTING EMBRECTION

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/R1132N

09/03/2024

MSKNB/FD/2023-24/03/P1FX83

02/03/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Greep Description of sample	Water & Residue in Water
Unique identification of sample(if any)	SURFACE WATER
. Dete of sampling	NA NA
Place of sampling	01/03/2024
Environmental conditions during sampling & Transport	Baltami River (Kandra Village)
Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Identification of the personnel and	IS:17614(P-26) 2022
Identification of the personnel performing sampling by MSK	LALIN NAIK

Report No.: MSKPL/FD/2023-24/R1132N

Sample No.: MSKNB/FD/2023-24/03/P1FX83

RESULT

Micro Biology		KEGULI		
SI No.	Parameter	NOM	Metaod	
1	Total coliform	MPK/100ml	Standard methods or the examination of water & waste vater, 24th edtn,	Result
ASSESSED.	1077		922019	220

Opinion :

NA

Statument of Conformity

MAN.

END

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Page 1 of t

ALP O. BARBIL Ward No-6 Dist. Keorghar, Odesha - 758035 CIN: US1909WB1956PTC023037



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Report No. MSKGL/ED/20		Date: 25.03.2024
ANALYSIS REPORT OF SURFACE WATER		20.03.2024
Name of the Client Name of the Mines	M/s. TATA STEEL LIMITED	
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 01.03.2024	
Location	Bai arni River Kandra Village (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCR	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 52108	30	
2	Celcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	2.27)	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52208	***	10
4	Chloride (as CI)	mg/l	APHA (24th Edition), 4500 -CI B	250	<4.0
5	DO	mg/l		1000	6
6	Electrical conductivity	us/cm	APHA 24th Edition, 2023 4500-3-C/G		6.9
7	Iron (as Fe)	100000000000000000000000000000000000000	APHA (24th Edition), 2510R		130
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Fe E	3	<0.05
9	Odour (as Mg)	ing/l	APRIA (24th Edition), 3500 Mg B		3.8
578		mg/I	APHA (24th Edition), 2150R	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
11	Phenotic Compounds (as C8H5OH)	mg/1	APHA (24th Edition), \$530C	1	
12	Salinity	PSU	(Chloroform Extraction) APHA (24th Edition), 25268	- A	<0.001
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E		0.067
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210B)***	2.9
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	žit.	56
6	Total Hardness (as CaCO3)	mg/I	Manager Andrews (No. 1977) (2007) (1977)	***	78
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition), 2340 C	104	40
8	pH value at 19.2 deg C	- 35	APHA (24th Edition),2540D	50/100	11
201	bur sound ar Thre delic	None	APHA 24th Edition, 2023 4500-H-8	5.5-9.0	5.63

Checked by:

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkuta 700015 West Bengal Tel.: +91.7044036120

Email: udayanlab@mitrask.com

Name & Address of Customer:

AtiPo. - Joda, Dist. - Keonjher, Odeha - 758034. India

Tata Steel Ltd.(MGM)_Joda West





Scan for Portal

ULR: TC-695024000003853F

Doc No : MSK/GEN/19/07

JESTING - WIRECIDS

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/Y1132E

09/03/2024

MSKNB/FD/2023-24/03/KJUR3H

02/03/2024

02/03/2024 - 09/03/2024

Permanent Facility

3000158017/058, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
1 Helena Maratte and	SURFACE WATER
Unique Identification of sample(if any)	NA DECEMBER OF THE PROPERTY OF
4. Date of sampling	01/03/2024
5. Place of sampling	
Environmental conditions during sampling & Transport	Sona River (Kandra Village) before Confluence with Baltarni River
. Sampling Plan & Method used	(2-5) deg C Cold chain maintained
	IS:17614(P-23) 2021
. Mentification of the personnel performing sampling by MSK	LALIN NAIK

Report No. : MSKPL/FD/2023-24/Y1132E

Sample No.: MSKNBFD/2023-24/03/KJUR3H

RESULT

51 No.	Parameter	NOM	Method	4
1	Arsenic as As			Result
2	Boron as B	mg/l	IS 3025 (Part 2)	BOL DL 0.005
3.	Cadmium os Cd -	mg/l	16 3025 (Part 2)	BDL(DL:0.25)
4	Cotour	mgit	IS 3025 (Part 2)	BOL(DL:0.001)
5.	Copper as Cu	Hazten	15 3025 (Part 4)	80L(0L:1.0)
8		mg/l	IS 3025 (Part 2)	8DL(DL:0.02)
7	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BOL(DL 0.02)
8	Fluoride as F	mg/l	15 3025 (Part 60)	0.25
	Hexayalant Chromium (as Cr+6)	mg/t	IS 3025 (Part 52) Sec2	The second secon
9	Lead as Pb	mg/l	IS 3025 (Part 2)	80L(0L;0.01)
10	Manganese as Mn	mg/t	IS 3025 (Part 2)	BDL(DL:0.005)
11	Mercury as Hig	mg/t	The state of the s	8DL(DL:0.02)
12	Nitrate as NO3	mg/l	IS 3025 (Part 48)	BDL(DL 0 0002)
13	Zinc as Zn		APHA (24th EDITION) 4500-NO3- B	0.70
		mg/t	IS 3025 (Part 2)	8DL(DL:0.02)

Opinion:

MA

Statement of Conformity

NA.

END

Personal by

None of Athenyer Surge Mr. Address Satur, Mr. Plant Geopoly

In the Change Executive Change

Authorities Signature

Lavan

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Koketa 700015

West Bengal. Tel.: +91 7044036120 Email: udayanlab@mitrask.com

Name & Address of Gustomer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West





DICKEL MIDOSCHARIO

TESTING . INSPECTION



ULR: TC-695024000003853F

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample;

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/Y1132E

09/03/2024

MSKNB/F0/2023-24/03/KJUR3H

02/00/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Oescription of sample Unique identification of sample(if any)	Water & Residue in Water SURFACE WATER
Date of sampling Place of sampling	NA 01/03/2024
Environmental conditions during sampling & Transport	Sona River (Kandra Village) before Confluence with Baltarni River (25) deg C Cold chain maintained
7. Sampling Plan & Method used 8. Identification of the personnel performing sampling by MSX	15.17614(P-25) 2022 LAUN NAIK

Report No. : MSKPL/FD/2023-24/Y1132E

Sample No.: MSKNB/FD/2023-24/03/KJUR3H

RESULT

Parameter	SIOM	Melfod	Press
Total coliform	MP(4/100m)	Standard methods for the examination of water & waste water, 24th edin,	Result 32
		Parameter 90W	Parameter UOM Method Standard methods for the manufacture

Ophnion:

NA.

Statement of Conformity

MA.

END

Department

Mr. Molesyes Champoonly

Extractive Mayorcongue

Adherons Signey

Mis. Materiyee Charaketty

Executive Microbiologica

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of managed part of sampless; or creations are given per country and expension of the country of Breat's Cores (St) Poors, T48, A.J.C. Sone Road, Natural - T00016, West Burget, India. T4. 191.30 401430001 2060007 Fax: 91.30 72930020 Bruss, into@mittack.com Website, were infrask.com

AIP O BARBIL Ward No-6 Dist: Keonjhar, Odeha - 758035 CIN: U61909W81956PTC023037



T : +91 94370 09815 94370 09820,94370 75259 E : barbii@mixaak.co.in

W www.mtrask.com

Report No. MSKGL/ED/20		Date: 25.03.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	IODA WEST IRON & MANGANESE MINES (IWIMM)	
Date of sampling	01.03.2024 GWIMM)	
Location	Sona River Kandra Village before confluence with Bai	

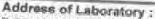
CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	CPC8 30	200
2	Calcium (as CaCo3)	mg/i	APRA (24th Edition), 2340 C	0.500	<2.0
3	Chemical Oxygen Demand (COD)	mg/I	APRIA (24th Edition), 52208		14
4	Chloride (as Cl)	mg_/I	APHA (24th Edition), 4500 -CI II	250	<4.0
5	DO	mg/l	- Committee response to the contract of the co	100	10
6	Electrical conductivity	1.0770	APNA 24th Edition, 2023, 4500-3-C/G		6.7
7		us/cm	APHA (24th Edition), 25108		156
8	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe E	3	<0.05
(6)	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	120	4.8
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	T
11	Phenolic Compounds (as C8H5OH)	mg/l	APHA (24th Edition), 5530C	1	<5.0
12	Salinity	PSU	(Chloroform Extraction) APHA (24th Edition), 2520B		<0.001
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	(484.)	0.08
14	Total Alkalinity	tng/l	APRA (24th Edition), 5210B	Terror.	3.5
15	Total Dissolved Solids (as TDS)	mig/l	1893999		70
16			APHA (24th Edition), 2S40C		94
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C		56
1.8	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	15
	pH value at 19.2 deg C	None :	APRIA 24th Edition, 2023 4500-H+8	5.5-9.0	6.99

Checked by:-

For Mitra S. K. Private Limited





Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal

Tel: +91 7044036120

Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-595024000003850F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West.

Al/Po. - Jode, Dist. - Keorghar, Odisha - 758834 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Disciplina:

09/03/2024 MSKNB/FD/2023-24/03/4B/DT9R

02/03/2024

02/03/2024 - 08/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

MSKPL/FD/2023-24/311327

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group 2. Description of sample	Water 5. Residue in Water
Unique identification of sample(if any)	SURFACE WATER
Date of sampling	NA .
5. Place of sampling	01/03/2024
S. Environmental conditions during sampling & Transport	Pichlaghat down Stream
Sampling Plan & Method used	(2. 5) deg C Cold chain maintained
Identification of the personnel performing sampling by MSK	JS:17614(P-23) 2021
the second performing sampling by MSK	LALIN NAIX

Report No.: MSKPLFD/2023-24/31/327

Sample No.: MSKNB/FD/2023-24/03/48DT9R

RESULT

91 No.	Parameter	UOM	300000	
1	Arsenic as As		Melbod	Result
2	Boron as B	mg/s	18 3025 (Pad 2)	SUL(DL-0.005
3	Gadmlum as Cd	mg/l	15 3025 (Part 2)	BDL(DL 0.25)
4	Colour	mg/l	IS 3025 (Part 2)	BEIL(DL:0.001)
6	Copper as Cu	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
6	The state of the s	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
7	Cyanide as CN Fluoride as F	mg/l	IS 3025 (Part 27) Sec1	BOL(DL 0.02)
8:	Hexavalent Chromium (es Cr+6)	mg/l	IS 3025 (Part 60)	BDL(DL:0:2)
9		mpt	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
10	Lead as Pb	mg/t	IS 3025 (Part 2)	BIDL(DL-0.005)
11	Manganese as Mn	ng/t	IS 3025 (Part 2)	The state of the second second second
12	Mercury as Hig	mg/l	IS 3025 (Part 48)	BDL(DL-0.02)
13	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL (DL 0.0002)
-	Zinc as Zn	mg/t	IS 3025 (Part 2)	0.60 SOL(DL:0.82)

Opinion:

NA

Statement of Conformity

MA

END

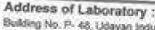
Attempte Com. on tisto. Mr. Piet Gargay

Designation Sr Syn. Chamile, Elevative Chamile Anthorised Signalary

Cab in charge

Doc No.: MISOCIDA HARD





Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengai

Tel.: +91 7044038120 Email: udayanlab@mitrask.com





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ULR: TC-8850240000003850F

TEST REPORT Name & Address of Customer:

Talta Steel Ltd (MGM) Joda West

ANPo. - Jode, Dist. - Keonjhar, Odisha - 758034 Incia

Report No.: Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPUFD/2023-24/311327

09/03/2024

M\$KN8/FD/2023-24/03/48DT9R

02/03/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water SURFACE WATER
NA 01/03/2024
Pichiaghat down Stream
(2-5) deg C Cold chain maintained (3:17614(P-25) 2022 (AUN NAIK

Report No.: MSKPL/FD/2023-24/311327

Sample No.: MSKNB/FD/2023-24/03/48DTSR

RESULT

St Mo.				
as reads.	Parameter.	UOM	Method	Resout
1	Total costons	MPN/100ml	Standard methods for the examination of water & waste water, 24th edin, 92216	40

Opinion:

NA

Statement of Conformity

NA

END-

Syndon

Mr. Malbeyes Challedoots

Exhaulter Moralinger

Present Signify

Dynasia

Ms. Matrejoo Charridony

Designation:

Executive Microbiologist

An execute street only to day beings intoted.

The Treet Report shall not be repredicted accept in full, settled the permission of fallers S. K. Private Limited.

The reserved pair of samples(s) for dispersion amongs, (Non-- permission samples) proof, Water) after the reserved for 15 days then the date of the Test Report. Permission samples(s) infell by constraint a reserved in 15 days then the date of the Test Report. Permission samples(s) infell by constraint and the reserved over of constraint for channel members. Solid & Limit Water) shall be integred by 15 days as our CPCH displaces & Solid Society and the Test Report. On the large of source on the Law Pages,

In covering part of company) for channel analysis (Soil, Soil) & Layer Where) and partition by 15 days as per CPCS guideline & (Av.) I must first the Still first the Test Report of company). For Microbiological environs (Inter-permitted sumption) Food, Seated Water, Seeled Sood) what to reterred by 10 days first disease of the Test Report.

Street Currier Con Floors, 749, A.J.C. Store Print, Rubbarn -700016, West Gergel, India. Tel. 19 33-401-50001 20100007 Fax: 91.33-2000000 Emel: vf0Qmstreet.com Website: www.subreh.com

ANP.O.:BARBIL Ward No-6 Dist.: Keonjhar, Odisha - 758035 CIN: U51909WB1956PTC02XXX7



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E : barbi@mitrask.co.in W : www.mitrask.com

Name of the Client Name of the Mines Date of sampling

Location

Report No. MSKGL/ED/2023-24/005449

Date: 25.03.2024

e: 25.03.2

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters Biochemical Oxygen Demand (as	Unite	Method	Max. Tolerance Limit as per CPCB	Results
	BOD)	mg/I	APRA (24th Edition), 52108	30	×2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C		
.3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52208		10
4	Chloride (as Cl.)	mg/l	APRA (24th Edition), 4500 -CI B	250	< 4.0
.5	DO	mg/l	APRA 24th Edition, 2023 4500-0-C/G	***	5
6	Electrical conductivity	us/cm	APIGA (Z4th Edition), 25108		6,6
7	Iron (as Fe)	nog/l	A CONTRACTOR OF THE PARTY OF TH	ATTEN TO	69
8	Magnesium (as Mg)	1000000	APHA (24th Edition), 3500 Fe B	3	< 0.05
9	Odour	mg/l	APHA (24th Edition), 3500 Mg R		1.9
10	Oil and Grease	mg/l	APHA (24th Edition), 21508	Agreeable	Agreeable
11		mg/I	APHA (24th Edition), 55208	1.0	<5.0
1	Phenotic Compounds (as C6H5OH)	mg/l	APRA (24th Edition), 5530C (Chloroform Extraction)	1	< 0.001
12	Salinity	PSU	APHA (24th Edition), 25208		- 07700
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42.E	-	0.008
4	Total Alkalinity	mg/l	APIIA (24th Edition), 52108	-	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	-	28
6	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C		42
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400		32
8	pH value at 19.8 deg C	None	APHA 24th Edition, 2023 4500-H+B	50/100	2.9
			100 100 000 000 000 000 000 000 000 000	5.5-9.0	6.94

Checked by:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 46, Udayan Industrial Estate, 3, Pegladanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@milrask.com







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TESTING CHAPECTION

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ULR: TC-895024000005275F

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

ASPo. - Joda, Dist. - Keonjhiir, Odisha - 758034 India

TEST REPORT

Report No. :

Date : Sample No :

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPUFD/2023-24/01244N

27/03/2024

MSRNBFD/2023-24/03/1G11E6

14/03/2024

14/03/2024 - 27/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
Surface Water
NA NA
13/03/2024
Pichleghet Up Stream
(2 ·5) deg C Cold chain maintained
IS:17614(P-23) 2021 Akash Kr Setty

Report No.: MSKPUFD/2003/34/8134/61

Sample No.: MSKNB/FD/2023-24/00/161166

RESULT

51 No.	Parameter	MON	Method	
1	Arsenic as As			Hespit
2	Boron as B	mgd	19 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	ngi	15 3025 (Part 2)	BDL(DL:0.25)
7		mg/i	SS 3025 (Part 2)	BDL(DL:0.001)
5	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1,0)
	Copper as Co	mg/i	IS 3025 (Part 2)	BDL(DL:0:02)
6	Cyaride as CN	mg/t	IS 3025 (Part 27) Sect	The second secon
7	Fluoride as F	mg/l	IS 3825 (Part 60)	8DL(DL:0.02)
8	Hexavalent Chromium (as Cr+6)	mg/l		BDL(DL:0.2)
9	Lead as Pb		IS 3025 (Part 52) Sec2	BDL(DL:0,01)
10	Manganese as Mn	mg/l	8S 3025 (Part 2)	BDL(DL:0.005)
11		mg/f	IS 3025 (Part 2)	BDL(DL:0:02)
12	Mercury as Hg	mg/l	IS 3025 (Part 48)	BOL(DL:0.0002)
	Nitrate as NO3	mg/t	APHA (24th EDITION) 4500-NO3-B	0.51
13	Zinc as Zn	rng/i	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity N

END -

Physics of Ep.

About Soup gargely

Sr. Cast. Chemist. Executive Chysins

Authorized Signatory:

Signature

- Marie

Swagner

Thompson friday

Designation:

Address of Laboratory :

Building No. P. 48, Lideyan Industrial Estate, 3. Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120 Email: udayanlab@mitrask.com









Dac No.: MSKIGEN/19/07

TESTING+ MERCONON

Scan for Portal

ULR: TC-595024000005275F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AMPo. - Joda, Dist. - Keonjhar, Odisha - 758034 Incla

TEST REPORT

Report No. :

Date: Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/B1244N

27/03/2024

MSKNB/FD/2023-24/03/1G11E6

14/03/2024

14/03/2024 - 19/03/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Blological

We hereby partify that the following sample Drawn by us had been analyzed with the following results:

Group Description of sample Unique identification of sample(if any)	Water & Residue in Water Surface Water
4. Date of sampling 5. Place of sampling	NA 13/03/2024
Environmental conditions during sampling & Transport Sampling Plan & Method used	Pichlaghat Up Stream (2: 5) deg C Cold chain maintained
1. Identification of the personnel performing sampling by MSK	IS: 17614(P-25) 2022 Akash Kr Selty

Report No. : MSKPL/FD/2023-24/B1244N

Sample No.: MSKNB/F0/2023-24/03/101186

RESULT

51 No.	Paramoter .			
	- monthsyste	UOM	Method	Result
1	Total adillorm	MPN/100ml	Standard methods for the examination of water & waste water, 24th edgs,	110

Opinion :

NA.

Statement of Conformity

MA

END.

Bill Dakadoby

Learning Minototopic

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in reserved part of samples(s) for character environ. (Next. persistable samples(s) Front, Matter) shall be nettermed for 15 days better of seaso of the Tast Region. Personable samples(s) front, Matter) shall be nettermed for 15 days and of the Tast Region. Personable samples(s) shall be nettermed part of samples(s) for character analysis (Soit & Liquid Water) shall be nettermed for 15 days from the part of samples(s) for identification analysis (Soit & Liquid Water) front Water, Section Region (Soit Supplies) for identification of the Tast Report.

Streets Cores (5th Floor), 749, A.J.C. Bose Road, KSBads -700016, Witte Bungs), India. Tel.: \$1.30.40143000 / 20100007 Fax: \$1.30.2010000

Ernet introgentmen.com Website www.minesk.com

AsP O BARSIL Ward No 6 Dist. Keonihar, Odeha - 758035 CIN: US1909WB1956PTC023037



T : +91 94370 09815,94370 09820,54370 75269

E : barbit@mitrask.co.in W : www.mitrask.com

Report No. MSKGL/ED/202		Date: 05.04.2024
	ANALYSIS REPORT OF SURFACE WATER	1-11.0.3.04.2024
Amount of rite Citetit	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	13.03.2024 [WIMM]	
Location	Richlaghat Pump House Up Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
T.	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 5210B	CPCB	
2	Calcium (os CaCo3)	mg/l	APRA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l		377	10
4	Chloride (as-Cl.)	mg/l	APHA (24th Edition), 52208	250	<4.0
5	DO		APHA (24th Edition), 4500 -(3 II	5.444	10
		mg/l	APRA 24th Edition, 2023. 4500-0-C/G		6.5
6	Electrical conductivity	us/cm	APHA (24th Edition), 25108	922	87
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe E	3	
8	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg E	3	0.17
9	Odour	mg/l	APHA (24th Edition), 21508	****	2.9
0	Oil and Grease	mg/l	APHA (24th Edition), 55208	Agreeable	Agreeable
1	Phenolic Compounds (as C8H5OH)	mg/l	APHA (24th &dition), 5530C	10	<5.0
2	Salinity Salinity	ind8/1	(Chloroform Extraction)	1	<0.001
3		PSU	APHA (24th Edition), 2520B	-	0.046
4	Sulphate (as SO4.)	mg/l	APHA (24th Edition), 4500 SO42-E		3
5	Total Alicalinity	mg/l	APHA (24th Edition), 5210B		36
6	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 2540C	***	52
	Total Hardness (as CeCO3)	mg/l	APHA (24th Edition), 2340 C		
	Total Suspended Solid (as TSS)	mg/l	APRA (24th Edition),25400	50/100	36
8	pH value at 20.5 deg C	None	APHA 24th Edition, 2023 4500-H-B	5.5-9.0	S

Checked by:- BC

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120 Emait udayanlab@mitrask.com







ULR: TC-695024000004352F

Doc No.: MSK/GEN/19/07

TESTING + INSPECTION

1.4.444

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 Incla

TEST REPORT

Report No.:

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24V1164V

15/03/2024

MSKNB/FD/2023-24/03/WUQD2R

07/03/2024

07/03/2024 - 15/03/2024

Permanent Facility

3000156017/066, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
Ground Water
MANUAL
06/03/2024
Bichakundi Borewell No-1 (New Community Tollet) ("MYMM)
(2-5) day C Cold chain maintained
IS: 13989 (P-11) 2018
PRANAB SETHI, DAMBARUDHAR DAS

Report No.: MSKPUFD/2023-24/V1164V

Sample No.: MSKNWFD/2023-24/03/MUQD2R

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mgh	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	88 369 i (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL-1,0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BOL(DL:0.02)
5	Cyaride as CN	mg/l	IS 3025 (Part 27) Sect	BOL(DL:0.02)
6	Fluoride as F	Ing/l	IS 3029 (Part 60)	BDL(DL:0,2)
7	Lead as Pts	Tem.	IS 3025 (Part 2)	BOL(DL 0.005)
8	Manganese as Mn	mg4	IS 3025 (Part 2)	BOL(DL:0:02)
9	Moccury as Hg	ing/t	IS 3025 (Part 48)	BDL/DL-0 00021
10	Nickel (as NI)	mgit	IS 3026 (Part 2)	BOL(DL:0.02)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	0.78
12	Selenium as Se	10m	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silice as SiO2	Ngm	IS 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	Ing/l	IS 3025 (Part 2)	BOL(DL:0.005)
15	Total Chromium as Cr	mgš	IS 3025 (Part 2)	BOL(DL:0.01)
16	Zinc as Zn	mg/t	IS 3026 (Part 2)	BOL(DL:0.02)

Financial By

ALM STATE

Designation - Lab to charps

Authorized Signatory:

figreture

Dampristic

Lab In charge

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kokata 700015

Name & Address of Customer:

AtiPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tuta Steel Ltd.(MGM)_Joda West

West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000004352F

Doc No.: MSK/GEN/19/07

TEXTING A HISPERTION

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance; Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/V1164V

16/03/2024

MSKNB/FD/2023-24/03/WUQD2R

07/03/2024

07/03/2024 - 08/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

. Group	Water & Residue in Water
Description of sample	Ground Water
Unique Identification of sample(if any)	NA NA
Date of sampling	08/03/2024
Place of sampling	Bichakundi Sorewell No-1 (Neur Community Total) (JANMA)
Environmental conditions during sampling & Transport	(2 -5) dog C Cold chain maintained
Sampling Plan & Method used	/S: 17614 (P-25) 2022
Identification of the personnel performing sampling by MSK	PRANAB SETHI, DAMBARUDHAR DAS

Report No.: MSKPL/FD/2023-24/V1164V

Sample No.: MSKNB/FD/2023-24/03/WUQD2R

RESULT

licro Biology				
SI No.	Parameter	UoM	Method	nine.
4	E. cos	/100ml	18 1 (188	Result
2	Total coldom	/100ml	IS:1/185	Detected

Opinion:

NA

Statement of Conformity

EMB.

Personnel by

Un Madriyee Change

Detailed Micropropose

interinet Signality

TOTAL CONTRIBUTIONS

Emouting Microbiologist

The results reliefe only to the item(s) treated.

The Test Report shall not be reproduced except in full, without the permission of Man S.K. Private Landon
The Test Report shall not be reportunate except in full, without the permission of Man S.K. Private Landon
The reserved part of services of Control excepts (Non-perturble surrigings) Food, Wester) shall be returned for 15 page from the lates of some office. Feel Report, Permission surrigings shall be returned 2 days

The reserved part of sample(s) for channel arranges (Soit, Soild & Expect Nation) shall be returned for 15 days, or part CPCD quisteline & (As) 1 excensions the date of the Test Report.
The reserved part of sample(s) for Microbinspeak produces (Non. - poststatio sample(s) Food, Sealed Matter, Sealed Soot) shall be retained for 15 days from the date of source of the Test Report. Street Clean (St. Root) 749, A.J.C. Bose Root, Galum - 700010, Weel Bengal, India. 191 33 4014/3000 / 2015/0007 Fax: 191 33 2015/4/00 Creat: introductions con Website: www.militatic.com

ANP.O.:BARSEL Ward No-6 Dist.: Keonjhar, Odisha - 755035 CIN: U51909WB1956PTC023037



T : +91 94370 09815 94370 09820,94370 75259 E : barbigmitrask co.in

W : www.mitrask.com

Report No. MSKGL/ED/202		Date: 25.03.202-
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	(6.03.2024	1000
Location	Echakundi Borewell No -1 Near Community Toilet (JWIM)	(F)

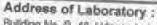
CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

Sl. No. Test F	Sl. No.	Test Parameters	Unite	Method	12	per IS: 10500- 2012	
1	Ammonical Nitrogen	2000		Desirable Limit	Permissible Limit	Results	
2		mg/l	APHA (24thEdition),4509-NN3-P	0.5	No Relaxation	<0.1	
	Calcium (as Ca)	mg/I	APIIA (24th Edition),3500 Ca B	75	200	10.000	
3	Chloride (as Cl)	mg/l	APHA (24th Edition),4500 -CI B	250	1000	14	
4	Electrical conductivity	as/cm	APHA (24th Edition),25108	27.5		14	
5	Iron (as Fe)	mg/l	APHA (24th Edition),3500 Fe 8	97737		133	
6	Odour			0.3	No Relaxation	<0.05	
7		None	3025 (Part-5)-1983;Rffm:2012	Agrecable	Agreeable	Agreeabl	
	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg B	30	100	2.9	
8	pH value at 23 deg C	None	APIIA 24th Edition, 2023,4500,11+B	6.5-8.5	No Relaxation	-	
9	Potassium (as K)	nig/l	APRA (24th Edition), 3500 K B	MICHEL COMP.		6.46	
10	Phenolic Compound (asC6H5OH)	mg/1	APHA (24th Edition), \$530C (Oxforoform Extraction)	0,001	0.002	<1.0	
11	Salinity	PSU	APHA (24th Edition), 25208			<0.001	
12	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na 8	. 172.3	944	0.069	
13	Sulphate (as SO4)	1000				4.6	
24	Taste	mg/l	APHA (24th Edition) 4500 SO42-E	200	400	3	
33	110000	None	IS 3025 (Part 8)-1983 Rffm:2012_(0)	Agrecable	Agreeable	Agreeable	
15	Total Alkalinity (as CaCO3)	ng/l	APHA (24th Edition), 2320B	200	600	The second second	
16	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 2540C	500	2000	36	
1.7	Total Hardness (as CaCO3)	mg/1	APRA (24th Edition), 2340 C	200	700000	78	
18	Total Suspended Solid (as TSS)	tog/l	APNA (24th Edition),2540D	34000	600	48	
19	Turbidity					<2.5	
	27527000	N.T.U	APHA (24th Edition), 2130B	1	5	<1.0	

Checked by:

For Mitra S. K. Private Limited





Building No. P- 48, Udayan Industrial Estate, 3. Pagladenga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@mtrask.com





Scan for Portal

ULR: TC-895024000004350F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

ASPo. - Joda, Dist. - Keonhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date: Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/G115F7

15/03/2024

MSKNB/FD/2023-24/03/HW4D35

07/03/2024

07/03/2024 - 15/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

. Group Description of sample	Water & Residue in Water
Unique identification of sample(if any)	Ground Water
Date of sampling	NA NA
Place of sampling	08/03/2024
Freelingmental and date	Bichakundi Borewell No-3 Micro activity Centre (JWMM)
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2-5) deg C Cold chain maintained
identification of the	18: 13999 (P-11) 2018
identification of the personnel performing sampling by MSK	PRANAB SETHI, DAMBARUCHAR DAS

Report No.: MSKPL/F0/2023-24/G115F7

Sample No.: MSKMB/FD/2023-24/03/HW4D35

RESULT

homical				
SI No.	Parameter	NON	22-2-3	
1	Arsenic as As		Meglod	Result
2	Cadmium as Cd	mg/l	IS 3025(Part 2)	BDL(DL:0,005
3	Colour	mgA	IB-3025 (Part 2)	BDL(DL:0.001)
4	Copper as Cu	Hagen	IS 3025 (Part 4)	BIDL(DL:1.0)
0	Dyanide as CN	mg/t	IS 3025 (Part 2)	BOL(OL 0.02)
8	Fluoride as F	mg/l	IS 3025 (Part 27) Sec1	BDL(DL-0.02)
7	Lead as Pb	mg/l	IS 3025 (Part 80)	BDL(DL:0.2)
8	Manganese as Mn	mgs	IS 3025 (Part 2)	BDL(DL-0-005)
9		mg/l	IS 3025 (Part 2)	BOL(DL 0.02)
10	Mercury as Hg	mg/i	IS 3025 (Part 48)	The second section of the second section is a second section of the second section of the second section is a second section of the second section sec
11	Nickel (as Ni)	ing/t	IS 3025 (Part 2)	BDL(DL:0.0002
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	BDL(DL:0,02)
13	Selenium as Se	mg/l	IS 3025 (Part 2)	0.78
14	Silice as SiQ2	mg/f	IS 3025 (Part 35)	BOL(OL 0.005)
	Silver as Ag	light .	IS 3025 (Part 2)	0.12
15	Total Chromium as Cr	rhgit		BOL(DL:0.005)
18	Zinc as Zn	mg/i	IS 3025 (Part 2)	BDL/DL:0.01)
	To destribe	11001	\$\$ 3025 (Part 2)	BOL(DL 9.02)

Designation.

Authorized Sophistory

Address of Laboratory:

Building No. P. 48, Lidayan Industrial Estate. 3, Pagladanga Road, Kokata 700016 West Bengal

Tel: +91 7044036520 Email: udayanlab@mirask.com

Name & Address of Customer:

AtiPo. - Joda, Dist. - Keorjher, Odsha - 758034. India

Tata Steel Ltd (MGM) Joda West





Doc No.: MSK/GEN/19/07

TESTING = INSPECTION



ULR: TC-695024000004350F

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

16/03/2024

MSKNB/FD/2023-24/03/HW4D35

MSKPL/FD/2023-24/G115F7

07/03/2024

07/03/2024 - 08/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample University States State	Water & Residue in Water Ground Water
ique Identification of sample(if any) te of sampling	NA NA
Place of eampling	09/03/2024
revisormental conditions during sampling & Transport	Biohakundi Boreweli No-3 Micro activity Centre (JWMM) (2-5) deg C Cold chain maintained
ampling Plan & Method used lentification of the personnel performing sampling by MSK	IS: 17614 (P-25) 2022
The second regions and second by MSK	PRANAS SETHI, DAMBARUDHAR DAS

Report No. : MSKPL/FD/2023-24/G115F7

Sample No.: MSKNB/FD/2023-24/03/HWKD05

RESULT

Aicro Biology				
SI No.	Parameter	UOM	- WO. T	
1	E. coli		Method	Result
2	Total coliform	110001	IS 19/85	Not Detected
		/100ml	IS 15985	Not Detected

Opinion:

NA

Statement of Conformity

NA

EMD ---

Swigning-

Existing Microbingue

erve Champbots

Arthresist Signitive

Describe Wenthooper

content (commit ent) or spressy season assumed to

to remain recept creat to the attention, bested
from the frequency of the attention of the permission of Man, S.R. Private Limited
for the frequency of the instruction of the permission of Man, S.R. Private Limited
for the state of the frequency to the deposit of the permission sample(s) Privat, Water) what he natural has 16 days from the financial the Tree Region. Precurency sample(s) find for retained 2 days
for the date of sample(s) for chemical analysis (find, Sub) 5 (Apple Water) shall be retained for 16 days as per CPCS guideline 5 (Ap) 1 course. For the date of same of the Tree Region.

The resourced part of sample(s) for the sample (Sub) 5 (Ap) Water) shall be retained for the sample (s) 1 course. For the date of same of the Tree Region.

Shrachi Crotte (Sin Floor), 749, A.J.C. Sone Polisi, Kolosu -700015, West Bangal, India Tel.: 54.35 Att-0000 / 2850007 Fax: 91.03 2000008

Email: inhighestrack com Vestodin; www.mitrock.com

AAP O. SARBII, Ward No-6 Dist.: Keonjhar, Odeha - 758035 CIN: U51909WB1956PTC023037

T +91 94370 09815,94370 09820,94370 75269

E : barbi@mtrask.co.in W : www.mitrask.com



Report No. MSKGL/ED/202	Date: 25.03.2024		
	ANALYSIS REPORT OF GROUND WATER		
Name of the Client	M/s. TATA STEEL LIMITED		
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)		
Date of sampling	06.03.2024 GWIMM)		
Location	Bichakundi Borewell No -3 Near Micro Activity Centre (JWIMM)		

CHEMICAL ANALYSIS OF WATER AS PER 18: 10503 - 2012

SL No.	Test Parameters	Unite	Method	Norms as		
1	Ammonical Nitrogen	-	STREET,	Desirable Limit	Permissible Limit	Results
23.5		mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	-0.1
2	Calcium (as Ca)	mg/I	APHA (24th Edition),3500 Ca B	75	200	<0.1
3	Chloride (as Cl.)	mg/l	APRA (24th Edition),4500 -CI 8	250		22
4	Electrical conductivity	us/cm	APHA (24th Edition) 25108	1000	1000	18
5	Iron (as Fe)	mg/l			the	191
6	Odour		APHA (24th Edition),3500 Fe B	0.3	No Relaxation	0.186
7		None	3025 (Part-5)-1983;Rffm:2012	Agreeable	Agreeable	Agreeabl
	Magnesium (as Mg)	rng/l	APHA (24th Edition), 3500 Mg 8	30	100	2.9
8	pH value at 23 deg C	None	APRA 24% Edition, 2023,4500,H+8	6.5-8.5	No Relaxation	
9	Potassium (as K)	trage/1	APStA (24th Edition), 3500 KB	7000	NAME OF TAXABLE PARTY.	6.4
10	Phenolic Compound	200	APHA (24th Edition), \$530C		7	2.1
31	(asC6H5OH) Solinity	mg/l	(Chloroform Extraction)	0.001	0.002	< 0.001
	Manual Armadam Comment	PSU	APHA (24th Edition), 2520B		- MA	0.098
12	Sodium (as Na)	mg/i	APSIA (24th Edition), 3500 Na 8	***	-	
13	Sulphate (as SO4)	mg/l	APHA (24th Edition) 4500 S042-E	200	400	9.2
14	Taste	Vone	IS 3025 (Part 8)-1983 Rifm:2012 (0)	Agreeable		6
15	Total Alkalinity (as CaCO3)	ing/I	APHA (24th Edition), 2320B	12.03.04.02.02.2	Agreeable	Agrecable
16	Total Dissolved Solids (as TDS)	mg/l	The second secon	280	600	60
7.	Total Hardness (as CaCO3)	100	APRA (24th Edition), 2540C	500	2000	116
18		mng/3	APHA (24th Edition), 2340 C	200	600	68
9	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition).2540D	-		<2.5
-59.	Turbidity	M.T.U	APHA (24th Edition), 21368	1	5	<1.0

Checked by:

For Mitra S. K. Private Limited

Authorized Signatory

H. O.: Shrachi Centre (5th Floor): 748, Acharya Jagadish Chandra Bose Road, Kokata – 700 016, West Bengal, India T: 91 33 22172249 / 4014 3000 / 2265 0006 / 2265 0007 P: 91 33 2265 0008 Einfo@mitrask.com W: www.mitrask.com









Scan for Portal

ULR: TC-6950240000004357F

TC-6950

Name & Address of Customer:

Tata Sheet Ltd (MGM)_Joda West

Address of Laboratory :

West Bengal

Tel. +91 7044036120 Email: udayanlab@mitrask.com

Building No. P. 48, Udayan Industrial Estate. 3, Pegledange Road, Kokata 700015

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No.:

Date: Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSXPL/FD/2023-24/Q117FH

15/03/2024

MSKNB/FD/2023-24/03/S8PACM

07/03/2024

07/03/2024 - 15/03/2024

Permanent Facility

3000158017/058, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Ground Weter
Unique Identification of sample(if any)	NA NA
4. Date of sampling	08/03/2024
5. Place of sampling	
Environmental conditions during sampling & Transport	Biohalondi Borewell No-1 (Neur Community Tobel) (JMIMM)
7. Sampling Plan & Method used	(2-5) drg C Cold chain maintained
R Manifestion of the way on the	IS: 13969 (P-11) 2018
8. Identification of the personnel performing sampling by MSX.	PRANAB SETHL DAMBARUDHAR DAS

Report No.: MSKPL/FD/2023-24/Q117FH

Sample No.: MSKVB/FD/2023-24/03/S8PACM

RESULT

SI No.	Parameter	OOM	Method	
1	Arsenic as As	mg/i		Result
2	Cadmium as Cd		IS 3025 (Part 3)	BOX (DL:0.005)
3	Hexavolent Chromium (as Crv8)	mg/l	IS 3026 (Part 2)	BDL(DL:0.001)
4		mgit	18 3025 (Part 52) Sec2	BDL(DL:0.01)
5	lion as Fe	mg/l	IS 3025 (Part 2)	BDL(DL:0.06)
	Lead as Pb	mg/t	IS 3026 (Part 2)	
6	Manganese as Mn	mg/l		BDL(DL 0.005)
7	Mercury as Hg	The state of the s	15 3025 (Part 2)	BOL(DL:0.02)
8		mgri	IS 3025 (Part 48)	BIDL(DL:0.0002)
9	Selenium as Se	mg/l	IS 3025 (Part 2)	BOL(DL 0.005)
* 1	Zine as Zn	mgd	IS 3025 (Part 2)	BDL(DL:0 (02)

Opinion:

NA

Statement of Conformity

NA

END

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Designation Extrative Chargest Authorays Transley

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Head Office:

Streets Copts (3th Floor), 748, A.J.C. Bose Road, Robusts - 190016, West Streets, Indias Tel.: 91 59:40140000 / 22560007 Pax: 91 30 22500008 Count : info@mitrast.com Verbala: work coloubs.com

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolksta 700015 West Bengal

Tel.: +91 7044038120

Email: udayanlab@mirask.com







Sexa for Portal

ULR: TC-695024000004355F

Doc No.: MSK/GEN/19/07

TERTING + ARPECTION

Name & Address of Customer :

Teta Steel Ltd (MGM)_Joda West

AliPo - Joda, Dist - Keonjinsr, Odisha - 758034 Incia

TEST REPORT

Report No.:

Date: Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/F117/F2

15/03/2024

MSKNB/FD/2023-24/03/CACASG

07/03/2024

07/03/2024 - 15/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group 2. Description of sample	Water & Residue in Water
Unique Identification of sample(if any)	Ground Water
Date of sampling	NA NA
. Place of sampling	06/03/2024
Environmental conditions during sampling & Transport	Bichakundi Borawali No-3 Micra activity Centre (JWMM)
Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Manification of the control used	IS: 13969 (P-11) 2018
Identification of the personnel performing sampling by MSK	PRANAII SETHI, DAMBARIJOWAR DAS

Report No. : MSKPL/F0/2023-24/F117F2

Sample No.: MSKN8/FD/2023-24/03/CACA9G

RESULT

51 No.	Parameter	UOM	Method	
1	Arsenic as As			Result
2	Cadmium as Cd	tig/l	18 3028 (Part 2)	BDL(DL:0.005)
3	Hexavalent Chromium (as Cr+t)	ing/t	15 3025 (Part 2)	BDL(DL:0.801)
4		mgA	IS 3025 (Part 52) Sec2	80L(0L-0.91)
	Iron as Fe	mg/f	3S 3025 (Part 2)	
5	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(0L-0.05)
8	Manganese as Mn	mg/l	COLUMN TO THE PROPERTY OF THE	8DL(DL:0.005)
7	Mercury as Hg		IS 3025 (Part 7)	8DL(DL:0.02)
8	Selenium as Se	mg/f	IS 3025 (Part 48)	BCL/DL:0.00021
9	7.00	mg/l	(S 3025 (Part 2)	BDL/DL-0.006)
	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL-0.02)

Opinion:

NA

Statement of Conformity NA

END.

Parallel and Dr.

Designation

Authorized Signatory

Burney

Done Dr. Chairchain Bain

Technical Islands

Transport of Marc S.A. Private Liveling.

I description of American Liveling.

I description of American Liveling and the state of the State for of some of the Total Report. Personalities surgicing state his manifest 2-50pc stress the date of some of the Total Region.

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seed Office:

Streets Carps (Sp. Ploot), Tell, A.J.C. Sone Road Robuse - 700018, West Sangel, India. Tel.: Sr. 33-40143000 / 20150007 Fea.: Sr. 35 2000008 Email: ::Rugimmas.com Webster: were sobalic our.

Онемь: мероформинари







Scan for Portal

ULR: TC-695024000005273F

TC-6950

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Address of Laboratory:

Email: udayanlab@mitrask.com

West Bengal Tel.: +91 7044036120

3, Pegladenga Road, Kolkata 700015

Building No. P- 48, Udayan Industrial Estate,

AliPo - Joda, Dist. - Keonjhar, Odisha - 758034 Incia

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/M1243X

27/03/2024

MSKNB/FD/2023-24/03/QY1202

13/03/2024

13/03/2024 - 27/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Surface Water
3. Unique Identification of sample(if any)	1004 0000000000000000000000000000000000
4. Date of sampling	NA .
5. Place of sampling	12/03/2004
6. Environmental conditions during sampling & Transport	Ganguiguda Seepage Water (JWIMM)
7. Sampling Plan & Method used	(2-5) deg C Cold chain maintained
E MANAGEMENT AND AN ARROW WAS A STREET OF THE STREET OF TH	JS:17614(P-23) 2021
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty

Report No.: MSKPL/FD/2023-24/M1243X

Sample No.: MSKNB/FD/2023-24/03/QY1202

RESULT

5) No.	Parameter	LIOM	Method	Donnell
1	Arsenic as As	figit.	IS 3025(Part 2)-	Result
2	Boron as B	mg/l	IS 3025 (Part 2)	80LIDL:0.000
3	Cadmium as Cd	ngn		BIOL(DL 6.25)
4	Colour	Hazen	IS 3025 (Part 2)	BOL(DL:0.001)
8	Copper as Cu	mg/l	IS 3025 (Part 4)	BDL(DL:1.0)
6	Cyanide as CN	mgd	IS 3025 (Part 2)	BDE(DL:0:02)
7	Flooride as F		18 3025 (Pert 27) Sec1	BDL(DL:0:02)
6	Hexavalent Chromium (as Cr+5)	mg/l	IS 3025 Part (0)	BOL(OL:0.2)
9.	Lead as Pb	mg/l	IS 3025 (Part 52) Seq2	BDL(DL:0.01)
10	Manganese as Mn	mgA	IS 3025 (Part 2)	BOL(DL:0.005)
11	Mercury as Hg	mgñ	IS 3025 (Part 2)	BOL(DL:0.02)
12	Nitrate as NO3	mgs	IS 3025 (Part 48)	BDL(DL:0.0002
13	Zinc as Zn	mg/l	APHA (24th EDITION) 4500-NO3-B	0.78
	ANG PS AN	mg/l	IS 3025 (Part 2)	80L(0L-0.02)

Opinion:

NA

Statement of Conformity

NA

END

Reviewed By:

Signature

Atroy or Source Go Mr. Appendix Salve, Mrs. Find Computer

Consignation.

St Dre Dwnss Essone Chesse

Authorized Signatory

Significan

Lab In charge

Head Office:

Streets Centre (Str Feur), 748, A.J.C. Sone Road, Rollins - 700016, Value Rengel, India Tel. 91 33 401430057 20000007 day, 91 33 2000000 Email: inhagentrals, com Website , were retreated one.

Address of Laboratory :

Building No. P- 48, Udeyan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer:

AUPo. - Joda, Diet. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM)_Jode West

West Bengul

Tel.: #91.7044036120 Email: odayanlab@mitrask.com



TO-6950



Scan for Portal.

ULR: TC-695024000005273F

Doc No : MSK/GEN/19/07

TETTING NIMBERCHION

TEST REPORT

Report No.:

Date:

MSKPL/FD/2023-24/M1243X 27/03/2024

Sample No. :

MSKNINFD/2023-24/03/QY1202

Date of receipt of sample:

13/03/2024

Date(s) of performance: Location of performance of

13/03/2024 - 15/03/2024

Reference No. & Date :

Permanent Facility

Discipline:

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been enelyzed with the following results:

Description of sample Unique Identification of sample(if any)	Water & Residue in Water Surface Water	
. Date of sampling	NA .	
5. Place of sampling	12/03/2024 Ganguiguda Seepage Water (JWMM)	
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2-5) deg C Cold chain maintained	
identification of the personnel performing sampling by MSX.	IS:17614(P-25) 2022 Akash Kr. Setty	

Report No.: MSKPL/FD/2023-24/M1243X

Sample No.: MSKNB/F0/2023-24/03/2Y1202

RESULT

Micro Biology				
Si No.	Parameter	uou	Method	Deaug
1	Total coliform	MPNHOOM	Standard methodulor the examination of water & wastewater, 24th edgs. 9/2/18	Result +1.8

Opinion:

NA NA

Statement of Conformity

END -

Patrimunit By:

Ms. Madreyee Chakrabony

Employe Mundanger

National Equations

Insignation

Emplie Manhologue

The regular region only to the lime(x) hashed.

The Test Report after the perputation except in fail, will not the personnel of data S.K. Pringle (under the personnel of the Som the date of security than Test Report.
The inserved part of sampless for connect snerpes (Sos, Bullet & Ligad Yasses) that his missings for 1% days as per CPCB guidance & (Av) 7 connection the date of security flag Report.
The reserved part of sempless) for billiophylogical prespect (Non - pershatis semplest) Food, Seemil Wester, Seated flood) shall be retained for 15 days from the date of security flag Report.

Oneil: info@mbiese.com Vilebate ; www.entrack.com

Streets Cares (5th Picor), 749, A.J.C. Street Rolet, College - 700016, Water Bangai, India, 7st. - 91 33 401-6000 / 20150007 Fee - 91 35 20014008

ANP O. BARBIII, Ward No-6 Dist: Keonhar, Odisha - 758035 CIN: U51909WB1956PTC023037 MSK TESTING INSPECTION

T : +91 94370 09815 94370 09820 94370 75289

E : barbil@mitrask.com W : www.mitrask.com

Report No. MSKGL/ED/202	Date: 02:04.2024	
Name of the Client	ANALYSIS REPORT OF MINE WATER M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	12.03.2024	
Location	Ganguiguda Seepage Water (JWIMM)	

THEMICAL ANALYSIS OF WATER AS PER IS: 2490

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 5210E	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	445	
3	Chemical Oxygen Demand (COD)	mg/I	APHA (24th Edition), 5220B	250	14
4	Chloride (as Cl)	mg/I	APBA (24th Edition), 4500 -CIB	200	<4.0
5	00	mg/l	APHA 24th Edition, 2023 4500-C-C/G		5.2
6 :	Electrical conductivity	us/cm	APRA (24th Edition), 2510H		126
7	Iron (as Fe)	mg/l	APRIA (24th Edition), 3500 FeB	3	
8	Magnesium (es Mg)	mg/l	APIIA (24th Edition), 3500 Mg B	Tree Control	0.37
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	
10	Oil and Grease	mg/l	APRA (24th Edition), SS20B	10	Agreeable
11.	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<5.0
12	Salinity	PSU	APHA (24th Edition), 2520B	Value 1	0.065
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 S042-S	100	0.9
4	Total Alkalinity	mg/l	APHA (24th Edition), 52108		48
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C		76
6	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C		52
7	Total Suspended Solid (as TSS)	mg/l	APIIA (24th Edition),25400	\$0/100	1,2
8	pH value at 23.7 deg C	None	APRA 24th Edition, 2023 4566-1+8	5.5-9.0	6.2

Checked by:

For M. tra S. K. Private Limited

Doc No.: MSK/GEN/19/07





TC-6950



Scan for Ported

ULR: TC-895024000005272F

Name & Address of Customer :

Tota Steel Ltd (MGM)_Joda West

Address of Laboratory:

West Bengal Tel.: +91 7044036120 Email: udayanlab@mitrask.com

Building No. P- 48, Udayan Industrial Estate, 3, Pagladenga Road, Kolkata 700015

As/Po. - Joda, Dist. - Keonjhar, Odeha - 758034 India

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/512439

27/03/2024

MSKNB/F0/2023-24/03/K011EK

13/03/2024

13/03/2024 - 27/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analysed with the following results:

1, Group	Water & Residue in Water
2. Description of sample	Surface Weter
Unique Identification of sample(if any)	NA.
4. Date of sampling	12/03/2024
5. Place of sampling	
6. Environmental conditions during sampling & Transport	D-Quarry Seepage Water (JWMM)
7. Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Manufallinest and the second second	IS:17614(P-23) 2021
8. Identification of the personnel performing sampling by MSK	Albish Kr. Setty

Report No.: MSKPL/FD/2023-24/512438

Sample No.: MSKNIUFD/2023-24/03/K011EK

RESULT

hemical				
51 No.	Parameter	UOM	Method	Maria Care
1	Arsenic as As	Agm A		Result
2	Boron as B		IS 3026 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	right .	18 3024 (Part 2)	BDL(DL:0.25)
4	Colour	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
5		Hazert	IS 3025 (Part 4)	80L(DL:1,0)
6	Copper as Cu	mg/l	IS 302f (Part 2)	BOLIDL 0.02)
7	Cyanide as CN	Rem	IS 3025 (Part 27) Sec1	BDL(DL-0.02)
8	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
9	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
ORDER DE LA CONTRACTOR DE	Lead as Pb	right	IS 3025 (Part 2)	PDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3625 (Part 2)	The second secon
11 12	Mercury as Hg	mg/i	18 3025 (Part 48)	BDL(DL 0.02)
12	Nitrate as NO3	mg/l		BDL(OL-0.0002
13	Zinc as Zn		APHA (24th EDITION) 4500-NO3- B	0.62
	100000000000000000000000000000000000000	ling/li	IS 3025 (Part 2)	BDL(DL-0.02)

Opinion:

NA

Statement of Conformity NA

Received by:

Square.

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Disrignation

St. Dies. Chierrico, Escouliva Chierrico.

Autoraul Signatory

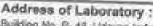
Signature

No.

Cab in charge

During: MOVICENTIALS





Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kokata 700015 West Sengal

Tel::+91.7044038126 Email: udayanlab@mitrask.com

Tate Steel Ltd (MGM), Joda West

AsPo. - Jode, Dist. - Keonjhar, Odeha - 758034 Ivela





Stan for Portal

ULR: TC-6950240000052726

TEST REPORT Name & Address of Customer:

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/512439

27/03/2024

MSKNB/FD/2023-24/03/K011EK

13/03/2024

13/03/2024 - 18/03/2024

Permanent Facility

3000158017/056, Date - 16/09/2023

Blological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1 Group	Water & Residue in Water	
2. Description of sample	Surface Water	
3. Unique Identification of sample(if any)	NA.	
4. Date of sampling	12/03/2024	
5. Place of sampling		
Environmental conditions during sampling & Transport	D-Quarry Seepage Water (JWWW)	
7. Sampling Plan & Method used	(2-5) deg C Cold chain maintained	
0 Marting of the Property of t	IS:17614(P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty	

Report No.: MSRPL/FD/2023-24/512439

Sample No.: MEKNEW GODGS-24/03/K011EK

RESULT

Alcro Biology		ICCOCLI		
Si No.	Parameter	UOM	Merhod	Result
1	Total coliform	MPN/100ml	Standard memodular the examination of water & waste water, 24th edin, 92:18	11

Opinion:

MA NA

Statement of Conformity:

END-

Revision By

Western en

Diskulas Ministratique

Authorized Nignatory

Ms. Marrierer Chairmooty

Sesignation Executive Microscogue

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The inserved part of semplotes for thermical continue (Sed. Solid & Light) repeat shall be resumed for Milliago on per CHY & Juniciples & Libry 1 excentition the case of the Test Report.
The inserved part of semplotes for biforcized operations (Non - pershaller exemplo(s) Food, Sealed Water, Sensed food) shall be resided for 15-days from the date of select of the Test Report. Head Office:

Streets Cardon (Sin Floors, 740, A.J.C. Sone Road, Kobian - 700016) What Bongel, India Tel: 91:38 401430001 (20000000 Plac: 91:39 2000000) Street, Info@mitsels.com Website - streetsticker.com

AUP O BARBIL Ward No-6 Dist: Keonihar, Odisha - 758035 CIN: US1909WB1956PTC023037

T : +91 94370 09815.94370 09820.04370 75269 E: barbi@mitrask.co.in

W : www.mbrask.com



Report No. MSKGL/ED/2023-24/0000054		Date: 02.04.2024
Name of the Client	ANALYSIS REPORT OF MINE WATER M/s. TATA STEEL LIMITED	
Name of the Mines IODA WEST IRON & MANCANGER MINES THAT IS		
Date of sampling	12.03.2024	
Location	D-Quarry Seepage Water (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOO)	mg/l	APHA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	ing/l	APHA (24th Edition), 2340 C	- Ou	
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52208		8
4	Chloride (as Cl)	ing/l	APRA (24th Edition), 4500 -Cl 3	250	<4.0
5	DO	mg/l	APHA 24th Edition, 2023 4500-0-C/G	1000	12
6	Electrical conductivity	us/cm		.575	7.1
7	Iron (as Fe)		APHA (24th Edition), 25108		82
8	The state of the s	mg/l	APHA (24th Edition), 3500 Fe 3	3	0.43
9	Magnesium (as Mg) Odour	mg/l	AP9IA (24th Edition), 3500 MgB	-	1.0
10	13.0501	mg/I	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APIIA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 2520B	,	
13	Sulphate (as SQ4)	mg/l	APHA (24th Edition), 4500 SO42 g	-	0.044
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108		0.7
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	777	20
6	Total Hardness (as CaCO3)	mg/l	APHA (Z4th Edition), 2340 C		50
7.	Total Suspended Solid (as TSS)	mg/l	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Andrew .	20
8	pH value at 23.7 deg C	None	APHA (24th Edition), 28400	50/100	1.2
-	F. 15-30 at 20.7 deg C	wone	APHA 24th Edition, 2023, 4500-H-8	5,5-9.0	6.77

Checked by:- (

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3. Pagladanga Road, Kolketa 700015 West Rennal

West Bengal Tel.: +91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000005271F

Doc No: MSKUGEN/19/07

LEATING HOUSE CHOO

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AdPo. - Joda, Dist. - Keorghar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Disciplino:

MSKPL/FD/2023-24/41243U

27/03/2024

MSKNB/FD/2023-24/03/C811FB

13/03/2024

13/03/2024 - 27/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Surface Water
Unique identification of sample(if any)	NA CONTRACTOR OF THE PARTY OF T
C Date of sampling	12/03/2024
5. Place of sampling	H-Quarry Seepage Water (JWMM)
Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
Sampling Plan & Method used	IS:17614(P-23) 2021
Identification of the personnel performing sampling by MSK	Akash Kr. Setty

Report No.: MSKPL/FD/2023-24/41243U

Sample No.: MSKWB/FD/2023-24/03/C811FB

RESULT

SI No.	Parameter	UDM	termina .	
1	Arsenic as As		Method	Result
2	Boron as B	Ing/I	8\$ 3025(Part 2)	BOL(OL:0.005)
3	Cadmium as Cd	ng/i	15 3025 (Part 2)	BOL(DL-0.25)
4	Colour	mgit	IS 3025 (Part 2)	BDL(DL:0.001)
5	Copper as Cu	Hazen	IS 3025 (Part 4)	SOL(DL:1.0)
6	The state of the s	mp1	IS 3025 (Part 2)	BDL(DL:0.02)
7	Cyahide as CN	mgA	1S 3025 (Part 27) Sec1	BDL(DL:0.02)
8	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
9	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BOL(DL:0.01)
	Lead as Pb	mg/l	IS 3025 Part 2)	The second secon
10	Manganese as Mrs	figri	IS 3025 (Part 2)	8DL(DL:0.005)
11	Mercury as rig	mg/i	IS 3025 (Part 46)	BDL(DL:0.02)
12	Nérate as NO3	mg/l		8DL(DL:0.0002)
13	Zinc as Zo	mg/l	APNA (24th EDITION) 4500-NO3- 8	0.85
BANK - 25 C	70-13-15-15-1	mg/l	IS 3025 (Part 2)	BOL(DL:0.0

Opinion:

NA

Statement of Conformity NA

- END -

Reviewed By

Abayee Sam P. Garyer

lengration - In Eve Chemist Executive Overvier

Authorized Signatury

Squata

Sec

Commence

Or Sydney and Building

Doc No. MSK/GEN/19/07









Scan for Portal

ULR: TC-895024000006271F

Name & Address of Customer :

Tata Steel Ltd (MGM) _lods West

Address of Laboratory :

West Bengal Tel.: +91 7044038120 Email: udayanlab@mitrask.com

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolosta 700015

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/41243U

27/03/2024

M8KNB/FD/2023-24/03/0811F8

13/03/2024

13/03/2024 - 18/03/2024

Permanent Facility

3000156017/066, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residge in Water
2. Description of sample	Surface Weter
Unique Identification of sample(if any) Ports of sample(if any)	NA NA
4. Date of sampling 5. Place of sampling	12/03/2024
6. Stoircompatel and title and a	H-Quarry Seepage Water (JWMM)
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2-5) deg C Cold chain maintained
L. Identification of the second of the	18:17614(P-25) 2022
8. Identification of the personnel performing sempting by MSK	Akash Kr. Setty

Report No.: MSKPL/FD/2023-24/41243U

Sample No.: MSKNB/FD/2023-24/03/C811FB

RESULT

Micro Biology				
51 No.	Parameter	Uom	Method	Result
3	Total soliform	MPN/100ml	Standard methods or the examination of water & waste vater, 24th edin, 97218	6.8

Opinion:

MA

Statement of Conformity

NA

END -

Ravissing Str.

September 1

Ws. Walkinger Changlook Existición Montanages

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Mr. Waterper Chalcengry

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The Tree Proposition of the Semile S

Streets Contre (Str. Tbor), 748, A.J.G. Sode Roed, Kolone - Y00016, Valed Sergel, India Tal. 31 23-60143003-125560007 Fee 31 33 23950008 Email: 110-globbes.com Website: were retrask-com

ALP O. BARBIL Ward No-6 Dist. Keonibar, Odisha - 758035 CIN US1909WB1956PTC023037 MSK TESTING INSPECTION

T: +91 94370 09815,94370 09820 94370 75269 E: barbli@mitrask.co.in

W : www.mirask.com

Report No. MSKGL/ED/202	Date: 02.04.2024	
#1000 - 000 - 400 - 000	ANALYSIS REPORT OF MINE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	12.03.2024 NEW MARKS (JWIMM)	
Location	F-Quarry Seepage Water (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SI. No.		Unite	Method	Max. Tolerance Limit as per CPCB	Results
	BOD) BOD	nig/l	APHA (24th Edition), 52103		
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 5220E		32
4	Chloride (as Cl.)	mg/l	The state of the s	250	<4.0
5	DO	-	APRA (24th Edition), 4500 -C 8	5***	10
6	Electrical conductivity	mg/l	APHA 24th Edition, 2023 4500-0-C/G	276	5.9
7	The state of the s	us/cm	APHA (24th Edition), 2510E	200	171
9	Iron (as Fe)	mg/l	APRA (24th Edition), 3500 Fe 8	3	7.19
	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	-	
9	Ódour	mg/l	APNA (24th Edition), 2150B	88	1.9
0	Oil and Grease	mg/l	APHA (24th Edition), 5520B	Agreeable	Agreeable
	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), \$530C	10	<5.0
2	Salinity		(Chloreform Extraction)	1	<0.001
3		PSU	APRA (24th Edition), 2S20B		0.088
4	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	2744	5.3
5	Total Alkalinity	mg/l	APHA (24th Edition), 52198	-	
	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 2540C	***	76
6	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C		106
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	11 11 11 11	88
8	pH value at 23.7 deg C	None	APHA 24th Edition, 2023 4508-16-B	50/100	62.6
		S125-125.		5.5-9.0	6.71

Checked by:-



For Mitra S. K. Private Limited

DISC RESCRIPTION





Building No. P- 48, Lidayan Industrial Estate. Pagladenga Road, Kolketa 700015

West Bengal Tel: +91 7044036120 Email: udayanlab@mitrask.com







Scan for Portal

ULR: TC-895024000005012F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. : Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/C158AW

22/03/2024

MSKNB/ED/2023-24/03/7G1BA0

13/03/2024

13/03/2024 - 22/03/2024

Permanent Facility

3000155017/056, Date - 16/09/2023

Chemical

We hereby cardly that the following sample Drawn by us has been analyzed with the following results:

1, Group	Poliution & Environment
2. Description of sample	Effuent Water
Unique Identification of sample(if any)	NA NA
4. Date of sampling	12/03/2024
5. Place of sampling	BS Mining Garage Oil Separation (/WIMM)
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
Sampling Plan & Method used	APHA 24th edition 2023
I. Identification of the personnel performing sampling by MSK	Pransy Kr. Sers
Fleid Equipments Used	N/A

Report No. :

MSKPUED/2023-24/C158AW

Sample No.:

MSKNB/ED/2023-24/03/7G1BA0

RESULT

BI No.	Parameter	NOM	Method	Desuit
1	Arsenic as (As)	mg/t	APHA (24th Edition), 3120 B	Result
2	Boron (as B)	mg/l		BDL(DL:0.005)
3	Cadmium as Cd	mgA	APHA (24th Edition) ,4500 - B C	BDL(DL:0.5)
A	Colour	Hazen	APHA (24th Editor), 3120 8	8DL(DL:0.05)
5	Copper (as Cu)	mg/l	APHA (24th Edition), 21208	BDL(DL:5.0)
6	Cyanide (as CN)	mari	APHA (24th Edition), 3120 B	BDL(DL-0.05)
7	Fluoride (as F)		APHA (24th Edition, 4500 CN - F	BDL(DL 0 02)
8	Hexavalent Chromium (as Cr+6)	mg/l	APHA (24th Edition, 4500 F-C/D	0.78
9	Lead (as Pb)	mg/l	APHA (24th Edition), 3500 Cr B	BOL(DL:0.05)
10	Manganese (as Mn)	mg/l	APHA (24th Edition), 3120 B	BOL(DL:0:05)
15	Mercury (as Hg)	mg/i	APHA (24th Edition), 3120 B	5.64
12		mg/l	APHA (24th Edition) 3112 B	BDL(DL:0.001)
13	Nitrate (as NO3)	mg/l	APHA (24th Edition, 4500 NO3-E	BOL(DL:0.5)
pinioo :	Zinc (as Zn) NA	eigh	APHA (24th Edition), 3120 B	BDL(DL-0.05)

Statement of Conformity NA.

END -

Revisited by

Designation

Technical In charge, Exe. Chemist

Authorized Bignetory

Designation

Life in change

The results relate only to the flam(s) heated

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Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91.7044035120 Email: udayanisb@mihask.com







ULR: TC-695024000005012F

Discres (associative) part

TESTING A INCOMPANIE

Scan for Portal

Name & Address of Gustomer:

Tata Steel Ltd (MGM)_Joda West

ANPo. - Joda, Dist. - Keonhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/C158AW

22/03/2024

MSKNIWED/2023-24/03/7G1BA0

13/03/2024

13/03/2024 - 18/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Pollution & Environment
Unique identification of sample(if any)	Effluent Water
Date of sampling	NA
Place of sampling	12/03/2024
Environmental countries of	8S Mining Garage Of Separation (JWMM)
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2 - 5) deg C Celd chain maintained.
Identification of the company of the	APHA 24th edition 2023
identification of the personnel performing sampling by MSK Field Equipments Used	Pranav Kr. Setti
7.	N/A

Report No. : MSKPL/ED/2023-24/C158AW

Sample No.: MSKNB/ED/2023-24/03/70/18A0

RESULT

Micro Biology	i e		5021	
SI No.	Paramoter	UOM	Method	
1	Total colling		Standard methods for the examination of water &	Result
		1 10/8/2011	waste water 24th edth, 9221B	220

Opinion:

NA

Statement of Conformity

NA

END-

Foreignes & Sty

Designation

Deviation

Executive Michigan

Purposeed Signatory

Chargeston

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The reserved part of server contract endough in fail, without the permanent of Man S.M. Proper Lamber.
The reserved part of server contract analysis (Non- perhanelism sample(s) Floor, Vesser) street per reserved by 1.5 days from the date of source of the Report, Personalism sample(s) shad for reserved 2 days.

The reserved part of complete) for Stockers Integral price - particular semigraphy index, reserved on the respect of the Test Report.

The reserved part of complete) for Microstroppes (Spit, Solid & Usper Plance) shall be reserved by the part of complete) for Microstroppes and price of several semigraphy for Microstroppes and price of several semigraphy for the semigraphy for Microstroppes and part of complete) for Microstroppes and part of complete (Microstroppes) for Microstroppes and part of complete (Microstroppes) for Microstroppes and part of complete (Microstroppes) for Microstroppes and Microstrop Stractic Centre (5th Foor), 74b, A.J.C. Bose Rose, Editors - 7000nt, West Bergel, India. Tel. 18130-4014000 / Simboott Fax: 3130 23500000 Crost: articignimess.com Website: www.mitrest.com

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T :+91 94370 09815 94370 09820 94370 75269

E barbiggmärask og in W: www.mitrask.com

AN	ALYSIS REPORT OF WASTE/EFFLUENT WATER Date: 02.04.202
Name of the Mines	M/s. TATA STEEL LIMITED JODA WEST IRON & MANGANESE MINES (JWIMM)
Date of sampling	12.03.2024
Location	BS Mining Garage Oil Separation Water Near Joda West (JWIMM)

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SI, No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	CPCB	
2	Calcium (as CaCo3) mg		APHA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52203	-	34
4	Chloride (as Ci)	mg/l		250	<4.0
5	DO	mg/l	APHA (24th Edition), 4500-(19	-	20
6	Electrical conductivity	us/cm	APHA 24th Edition, 2023 4500-0-C/G	+	2
7	Iron (as Fe)		APBA (24th Edition), 25103		280
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Ft B	3	1.52
9	Odour	mg/l	APHA (24th Edition), 3500 Mg H		5.8
10	DOM: TO SERVICE STATE OF THE PARTY OF THE PA	mg/l	APHA (24th Edition), 21508	Agreeable	Agreeable
	Oil and Grease	mg/I	APRA (24th Edition), 5520ti	10	<5.0
4	Phenolic Compounds (as C6H5OH)	mg/l	APRIA (24th Edition), \$5300	1	
Z	Salinity	PSU	(Ghloroform Extraction) APEA (24th Edition), 2520E	-	<0.001
3	Sulphate (as SO4)	mg/l	APRIA (24th Edition), 4500 5042-E	***	0.143
4	Total Alkalinity	mg/l	APHA (24th Edition), 52108	5.8%	32.4
5	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 2540C	424	80
6	Total Hardness (as CaCO3)	mg/l			166
7	Total Suspended Solid (as TSS)	mg/I	APIEA (24th Edition), 2340 C	(22)	108
8	pH value at 23.7 deg C		APHA (24th Edition),25400	50/100	178.4
-1	Fri rense at 23 / usy C	None	APRA 24th Edition, 2023 4500-H+B	5.5-9.0	6.98

Checked by:

For Mitra S. K. Private Limited

Authorized Signatory

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kokata 700015 West Bengal

Name & Address of Gustomer:

At/Po. - Jode, Dist. - Keonjhar, Odisha - 758034. Indis

Tata Steel Ltd (MGM)_Joda West

Tel.: +91 7044036120 Email: udayanlab@mitrasii.com







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ULR: TC-695024000003840F

Doc No : MSK/GEN/19/07

TESTING * INSPECTION

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/511323

09/03/2024

MSKNB/FD/2023-24/03/45NHA3

02/03/2024

02/03/2024 - 07/03/2024

Permanent Facility

3000156017/056; Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique Identification of sample(if any)	NA NA
4. Date of sampling	01/03/2024
5. Place of sampling	
Environmental conditions during sampling & Transport	Keth-hutting after H-quarry (Sons River).
7. Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Identification of the personnel performing sampling by MSK	IS:17614(P-25) 2022
the second personal personal parameter sampling by MSK.	LACIN XAIK

Report No.: MSKPL/FD/2023-24/511323

Sample No.: MSKNBIFD/2023-24/03/45NeW3

RESULT

Micro Biology				
Si No.	Payaroetes	NON	Wetflod	Result
37	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth.	6.8

Opinion:

NA

Statement of Conformity

NA

END

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Designation

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Mr. Minneyee Chargeston's

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This Test Playor shall not be reproduced except in Sul, without the permanent of Mills B.A. Present Lambda
The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be reserved by 15 days from the state of seaso of the Test Report. Perishable sample(s) analysis be reserved 2 days.

The interested part of sample(s) for character analysis (Soil, Soild & Liquid Wasse) shall be interested for 10 days as per CPCR (pubsices & VAI). I recent you the date of locar of the Test Report, the interested part of sample(s) is Microbiological analysis (Non-- portability sample(s) Foot, Sealed Wasse, Sealed box() shall be interested for 15 days from the date of seale of least Report.

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Address of Laboratory:

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Name & Address of Customer;

At/Po - Josa, Dist. - Knonjinar, Odisha - 758034 India

Tista Steel Ltd (MGM) Joda West

Tel.: +91 7044036120

Email udayanab@mitraak.com







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ULR: TC-695024000003129F

Dec No. Management

TEST REPORT

Report No.:

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/QJFF6C

29/02/2024

MSKNB/FD/2023-24/02/N5190T

17/02/2024

17/02/2024 - 29/02/2024

Permanent Facility

5000156017/056, Date - 15/09/2023

Chemical

We hereby certify that like following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Readus in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	15/07/2024
5. Place of sampling	D-Quarry Pit Weter
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
7. Sampling Plan & Method used	15:17514(P-23) 2021
8. Identification of the personnel performing sampling by MSK	LALIN NAIK:

Report No.: MSKFL/FD/2023-24/QJFF60

Sample No.: MSKNB/FD/2023-24/02/N5196T

RESULT

Chemical				
51 No.	Parameter	UOM	Method	Result
4	Amenic its As	mo/i	18 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	rigit	IS 3025 (Part 2)	BDL(DL:0.1)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	(5 3025 (Part 4)	BOL(DL'10)
5	Copper as Cu	mg/l	(5 3025 (Part 2)	BDL(DL-0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
6	Hexavalent Chromium (as Cr+6)	mg/i	18 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	Thg/T	IS 3025 (Part 2)	BDL(DL:6.005)
10	Mariganese as Mn	ngm	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	riigi9	(5 3025 (Part 48)	BDL(DL:0.0002
12	Nérale as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	0.52
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)

Opinion:

NA

Statement of Conformily

END-

Provinced By

Tracker South . Mit Attayon Sittle Mit Plain Gargary

St. East Charmed, East-Street Charmed

Automosed Styres

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel.:+91 7044036120 Emnit udayaninb@mhrusk.com







ULR: TC-69502400000312%

Dischie: #890000 termed

TC-8950

TEST REPORT

Name & Address of Customer:

Tata Steel Lid (MGM)_John West

AVPo - Jode Dist. - Kaprijser Dalma - 758034 India

Report No. :

Date: Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/QJFF6C

29/02/2024

MSKNB/FD/2023-24/02/N5196T

17/02/2024

17/02/2024 - 22/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Eliological

We hereby carsty that the following sample Drawn by us has been analyzed with the following results

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique Identification of sample(if any)	NA .
4. Dets of sampling	15/02/2024
5. Place of eampling	D-Quarry Pit Water
6. Environmental conditions during sampling & Transport	(Z -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17814(P-25) 2022
8. Identification of the personnel performing sampling by MSK	LALIN NAIK

Report No.: MSKPL/FDQ023-24/QJFF6C

Sample No.: MSKNB/FD/2023-24/02/N5198T

RESULT

Micro Biology				
SI No.	Paramotor	UOM	Method	Result
1	Total coliform	MPN/100mi	Standard methods for the examination of water & waste water, 24th edits. 92218	140

Opinion:

NA

Statement of Conformity

NA

END -

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the rest of situation of the Test Report

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Page 1 of t



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T +91 84370 09815,94370 09820,94370 75289

E | barbi@mitrask.co.in W | www.mitrask.com

Report No. MSKGL/ED/2023	3-24/005056	Date: 27.02.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	15.02.2024	
Location	D- Quarry Mine Water (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	AFHA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/I	APHA (24th Edition), 2340 C	-	11
1	Chemical Oxygen Demand (COD)	mg/i	APHA (24th Edition), 5220B	250	<4.0
4	Chloride (as Cl)	mg/l	APRIA (24th Edition), 4500 -CLB	-	10
5	DO	mg/L	APHA 24th Edition, 2023 4500-0-C/G	-	6.6
6	Electrical conductivity	us/cm	APHA (24th Edition) 25100	-	85
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	<0.05
8	Magnesium (as Mg)	mg/l	APNA (24th Edition), 3500 Mg B	-	1.9
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APRA [24th Edition], 55208	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chiocoform Extraction)	4	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208		0.045
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 5042-E	-	1.2
14	Total Alkalinity	mg/I	APHA (24th Edinop), 5210B	-	32
15	Total Dissolved Solids (as TDS)	mg/l	APRA (Z4th Editing), 2540C	-	50
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	36
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	<2.5
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	7.16

Checked by:

For Mitra S. K. Private Limited

& Landhary

Authorized Signatury

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015

West Bengill Tel.: +91 7044036120 Email udayantab@mitrask.com







ULR: TC-895024000002269F

TC-8950

TEST REPORT

Name & Address of Customer: Talla Stare! Ltd.(MGM)_Joda Weel

At/Po Joda, Det - Keenjher, Odeha - 758034 India

Report No. :

Date: Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/PAPADA

12/02/2024

MSKNB/FD/2023-24/02/76A10N

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facility

3000156017/056; Date - 16/09/2023

Chemical

We hereby certify that the following sumply Drawn by us has been analyzed with the following results:

1. Group	Water & Residue at Water
2. Description of sample	Surface Water
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	01/02/2024
5. Place of sampling	Vegetzble gården Pond, Bichakundi
8. Environmental conditions during sampling & Transport	(Z - 5) ding C Cold chain maintained
7. Sampling Plan & Method used	(E) 17614 (P-23) 2021
 Identification of the personnel performing sampling by MSK 	Mukesh Halburu

Report No.: MSKPL/FD/2023-24/PAFADA

Sample No.: MSKNB/FD/2023-24/02/78A10N

RESULT

Chemical				
51 No.	Parameter	HOM	Method	Result
1	Arstnic as As.	mpf	IS 3025 (Part 2)	BDL(DL 0.005)
-2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL-0.25)
3	Cadmium as Cd	mg/l	(S 3025 (Part 2)	BDL/DL 0.001)
4	Colour	Hazen	(S 3025 (Part 4)	HOL(DL:1.0)
5	Copper as Cu	ngri	IS 3025 (Part 2)	BDL(DL 0.02)
6	Cyanide as CN	Piger	IS 3025 (Part 27) Sect	BDL(DL:0.02)
T	Fluoride as F	Ngm	IS 3025 (Part 60)	0.40
8	Haxavillant Chromium (as Cr+6)	mg/l	15 3025 (Part 52) Sec2	EDUDL:0.00
- 1	Leed as Po	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mgfl	(S 3025 (Part 2)	BOL(DL:0.02)
11	Mercury as Hg	mg/t	IS 3025 (Part 48)	BDL(DL-9,0002
12	Nitrativ as NQ3	right	APHA (24th EDITION) 4500-NO3- 8	0.72
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BOL(DL.0.02)

Opinion:

NA.

Statement of Conformity

END

Rossman by

Atrayla Suna 166. African States Mr. Pred Co.

in East Chemist Construction Chem

Authorize Signatory

DISC NO. MENGERY HER





Address of Laboratory: Building No. P. 45, Udayan Industrial Estate

3, Pagledanga Road, Kolkata 700018 West Bengal

Tel: +91 7044036120 Email: udayarılab@mitraak.com





ULR: TC-095024000002269F

TC-6950

Name & Address of Customer:

Thin Steel Ltd.(MGM)_loda West.

At/Po. - Jeda Dist. - Keonihar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/FAFADA

12/02/2024

MSKNE/FD/2023-24/02/78A10N

03/02/2024

03/02/2024 - 08/02/2024

Permanent Facility

3000156017/056 Dale - 16/09/2023

Biological

We hereby centry that the following sample Drawn by us has been analyzed with the following results.

2. Description of sample	Water & Residue in Water
Unique Identification of sample(if any)	Surface Water
6. Date of sampling	NA .
5. Place of sampling	01/02/2024
Environmental conditions during sampling & Transport	Végetable garden Pend, Bichakundi
Sampling Plan & Method used	(2 - 5) deg C Cold otten maintained
Identification of the personnel	IS 17614 (P-25) 2022
dentification of the personnal performing sampling by MSK	Mukasih Haiburu

Report No.: MSKPL/FD/2023-24/PAFAGA

Sample No.: MSKNB/FD/2023-24/02/76A10N

RESULT

Micro Biology		HEOGET		
BI No.	Parameter	DOM	Method	
	A1000			Result
	Total collors	MPN/160mi	Standard methods for the examination of water 5 waste water, 24th edin. 92216	2

Opinion:

NA

Statement of Conformity

END -

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ALP O BARBIL Werd No-6 Dist: Keonjrur Odisha - 758035 CIN: U61900WB1956PTC023037

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E purbli@mbask.co.in W: www.mbrask.com

Report No. MSKGL/ED/202	3-24/005019	Date: 16.02.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	01.02.2024	
Location	Bichakundi Vegetable Garden Pond (IWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max Tolerance Limit as per CPCB	Results
1	Blochemical Oxygen Demand (as BOD)	mg/l	APITA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	F	20
3	Chemical Oxygen Demand (COD)	mg/l	APITA (24th Edition), 52200	250	<4.0
4	Chloride (as Cl)	mg/l	APHA (24th Edition), 4500 -CL0		4
5	DO	mg/l	APRA 24th Edition, 2023 4500-O-C/G	ine	6.9
Б	Electrical conductivity	ms/cm	APRA (24th Edition), 2510H	-	126
7	Iron (as Fe)	mg/L	APITA (24th Edition), 3500 Fe B	3	0.2
8	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg B	+	3.8
9	Odour	mg/l	APRA (24th, Edition), 2150H	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edmon), 55208	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APRIA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208	-	0.065
13	Sulphate (as SQ4)	mg/L	APHA (24th Edition), 4560 S042-fi	***	1.8
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210B		56
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	-	74
16	Total Hartiness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	Sear	36
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	39
18	pH value at 19.2 deg C	None	APRA 24th Edition, 2023 4500-H+B	5.5-9.0	7.43

Checked by:-



For Mitra S. K. Private Limited

Scaud Kary

Authorized Signatory

AVP.O BARBIL Ward No.6 Ded Keonihar, Odisha - 758035 CIN. U51909WB1956PTC023037



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E : harbi@märask.co.in W www.mitrask.com

	ANALYSIS REPORT OF SURFACE WATER	Date: 16.02.2024
	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	01.02.2024 (JWIMM)	
Location	Sona River Near Mahanadi Guest House (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
4	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	CPCB	-
2	Calcium (as CaCo3)	mg/i	APHA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l			32
4	Chloride (as CI)	mg/1	APHA (24th Edition), 5220B	250	<4.0
5	DO	-	APHA (24th Edition), 4500 -CI th	***	8
6	Electrical conductivity	mg/l	APILA 24th Edition, 2023 4500-0-C/G		6.7
7	lion (as Fe)	125/cm	APHA (24th Edition), 25108	-	152
B		mg/l	APIIA (24th Edition), 3500 Fe 8	3	0.1
9	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg H		
	Odour	mg/l	APHA (24th Edition), 21508	Agreeable	3.8
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	Agreeable
11	Phenotic Compounds (as C6H5OH)	tng/l	APRA (24th Edition), 5530c	1	<5.0
12	Salinity	PSU	(Chloroform Extraction) APHA (24th Edition), 25208	1	< 0.001
13	Sulphate (as SO4)	nig/l	The second secon	_	0.078
4	Total Alkalinity	-	APHA (24th Edition), 4500 SD42-E		8.5
5	Total Dissolved Solids (as TDS)		APHA (24th Editino), 5210B		60
6	Total Hardness (as CaCO3)	rng/t	APHA (24th Edition), 2540C	-	92
7		mg/l	APHA (Z4th Edition), 2340 C	-	48
8	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	13
31	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	7,42

Checked by: (18)



For Mitra S. K. Private Limited

Chauchany

Authorized Signatory

Building No. P. 48, Udayan Industrial Estate. 3. Pagtadanga Road, Kokata 700015







Scan for Partal

ULR: TC-695024000002270F

TEST REPORT

Name & Address of Customer: Tata Shell Ltd (MGM) Joda West

West Bengal

Tel. +91 7044036120 Email udayanlab@nvtrask.com

AUPo - Joda, Dist - Keeninar, Odisha - 756034 India

Report No. : Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/5MFA5M

12/02/2024

MSKNB/FD/2023-24/02/55Z11Y

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facility

3000156017/056, Dale - 15/09/2023

Chemical

We hereby centrly that the following sample Drawn by us has been analyzed with the following results:

2. Description of sample	Water & Residue in Water
1. Unique Identification of sametelif most	Surface Water
t. Date of sampling	NA
5. Place of sampling	01/02/2024
Environmental conditions during sampling & Transport	Sons River Near Mahanarii Guest hours
Sampling Plan & Method used	(2-5) deg C Cold chain maintained
Identification of the personnel performing sampling by MSK	15 17614 (P-23) 2021
to personnel performing sampling by MSK	Mukesh Hadson

Report No.: MSKPL/FD/2023-24/5MFA5M

Sample No.: MSKNB/FD/2023-24/02/S5Z11Y

RESULT

5) No.	No.			
4	Parameter	UOM	*****	
-	Arsenic as As		Mithod	Remult
4	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL 0.005)
- 3	Caldraigm as Cd	mg/i	#\$ 3025 (Part 2)	BDL(DL:0 25)
4	Colour	mg/I	IS 3025 (Part 2)	
5	Coppier as Cu	Pfazan	IS 3025 (Part 4)	BDL(DL 0.001)
6	Cyenide as Ct/	mg/i	IS 3025 (Part 2)	80L(DL 1.0)
7.	Fillipride as F	figm	IS 3025 (Part 27) Sect	BDL(DL 0.02)
8	Haxavalent Chramium (as Cr+6)	mg/l	15 3025 (Part 50)	BDL(DL:0:02)
9		Ngm	15 3025 (Part 52) Sec2	0.32
10	Lead as Pb	mg/l	(S 3025 (Part 2)	BDL(DL:0.01)
11	Manganese as Mn	Nem		HDL(DL:0.005)
12	Metcury as Hg	Nam	15 3025 (Part 2)	BDL(DL:0 02)
13	Narate as NO3	mg/I	15 3025 (Part 48)	BDL(DL:0.0002)
10	Zino as Zn	mg/l	APHA (24th EDITION) 4500-NO3- B	0.65
		- mgr	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion :

NA

Statement of Conformity

END

-Atomio Sign

Mr. Adjust Sinc Mr. For Desp.A

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LAG to charge

DOC MA MANUFACTURE!





Address of Laboratory :

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Tel. +91 7044036120 Emair udayanlab@mitrask.com





Stan for Pertui

ULR: TC-695024000002270F

Name & Address of Customer:

Tata Steel Ltd. (NIGM)_Joda West

At/Po. - Joda, Dist. - Kelonihar, Oldaha - 758034 India

TEST REPORT

Report No. :

Date: Sample No.: MSKPL/FD/2023-24/5MFASM

12/02/2024

MSICNB/FD/2023-24/02/S5211y 03/02/2024

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

03/02/2024 - 05/02/2024

Permanent Faculty

3000156017/055, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the hobowing results

2. Description of sample	Weter & Residue in Water
2. Unique Identification of sample(If any)	Surface Water
. Dete of sampling	NA NA
5. Place of sampling	01/02/2024
Sampling Place & Memory	Sona River Near Mehanadi Guest house
Sampling Plan & Method used	(2 - 5) tieg C Cold chain maintained
Identification of the personnel performing sampling by MSK	15 17654 (P-25) 2022
personner pernorming exempting by MSK	Mokesh Halburg

Report No.: MSKPL/FD/2023-24/5MFAEM

Sample No.: MSKNB/FD/2023-24/02/S5Z11V

RESULT

Micro Biology		RESULT		
SI No.	Parameter	NOM	1	
1	Total coliforn		Method Standard methods for the examination	Result
	, Ann Completi	MPN/100ml	of water & waste water, 24th edin. 92218	≺18

Opinion :

NA

Statement of Conformity

FND

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Authorized Signatory

Mr. Marry or Characterly

Executive Missobologies

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Page 1 of 1

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Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bergal Tel. +91 7044038120

Name & Address of Customer:

At/Ps. - Joda, Dist. - Kaonjhar, Odalna - 756034 Jodia

Tata Steel Ltd.(MGM)_Joda West

Email: udayariab@mitrasi.com





Seaw for Portal

ULR: TC-095024000002312F

DIGRE MENGGOWING:

TESTING SHISPECTION

TEST REPORT

Report No. :

MSKPL/FD/2023-24/KKFA58 13/02/2024

Date: Sample No. :

MSKNB/FD/2023-24/02/GC521H

Date of receipt of sample:

05/02/2024

Date(s) of performance:

05/02/2024 - 13/02/2024

Location of performance of

Permanent Facility

Reference No. & Date :

3000158017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby cartify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	Stifface water	
3. Unique Identification of sample(if any)		
4. Date of sampling	NA .	
Place of sampling	93/02/2024	
6. Favironmental and the	Pichlaghal Pump House Up Stream	
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
. Sampling Plan & Method used	IS 17614 (P-23) 2021	
Lidentification of the personnel performing sampling by MSK	MUKESH HAIBURU	

Report No. : MSKPL/FD/2023-24/KKFA58

Sample No.: MSKNB/F0/2023-24/02/GC521H

RESULT

hemical				
SINO	Paramyter	LIOM	Mothod	
T	Amenic as As	mg/l		Result
2	Boron as B		IS 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	rog/l	IS 3025 (Part 2)	BDL(0(.0.25)
4	Colour	mgri	18 3025 (Part 2)	BDL(DL:0 001)
5		Hiszen	(S 3025 (Part 4)	BDL(DL-1.0)
B	Copper as Cu	Ing/I	IS 3025 (Part 2)	BOL(DL:0.02)
2	Cyanide as CN	mg/l	IS 3025 (Part 27) Sect	BOL(DL:0.02)
	Fluoride as F	figm	IS 3025 (Part 60)	
В	Histavalent Chromium (as Cred)	mg/t	IS 3025 (Part 52) Sec2	BDL(DL:0.2)
9	Lead as Pb.	mp/l		BDL(DL:0,01)
10	Manganese as Mn	mart	(S 3025 (Part 2)	BDL(DL 0.005)
31	Mercury as Ho		18 3025 (Part 2)	BDL(DL:0.02)
12	Nitrate so NO3	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
13	Zinc as Zn	/lg/l	APHA (24th EDITION) 4500-NO3-B	0.58
-	Enry at Ch	mg/l	18 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

NA.

END -

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Dis No. MSVCIIWISK





Address of Laboratory : Building No. P. 48, Udayan Industrial Estate, 3, Pagladangs Road, Kohata 700015 West Bengal

Tel.: +91 7044036120 Ernau udayeniab@milrask.com





Scan for Portal

ULR: TC-695024000002312F

Name & Address of Customer:

Teta Steel Ltd. (MGM)_Joda West

Al/Po - Joda, Det - Keonjhar, Odisha - 756034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKFL/FD/2023-24/KKFA58

13/02/2024

M5RNE/FD/2023-24/02/GC521FI

05/02/2024

05/02/2024 - 10/02/2024

Permanent Facility

3000156017/056 Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been unalyzed with the following results:

2. Description of sample	Weter ≜ Residue in Water
Unique identification of sample(if any)	Surface water
Date of sampling	NA NA
5. Place of sampling	93(02/2024
5. Environmental conditions during sampling & Transport	Pichlaghat Pump House Up Stream
Sampling Plan & Method used	(2 - 5) deg C Cold Hisin maintained
Identification of the personnel performing sampling by MSK	IS 17614 (F-25) 2022
an personnel performing sampling by MSK	MUKESH HAIBURU

Report No.: MSKPL/FD/2023-24/KKFA58

Sample No.: MSKNB/FD/2023-24/02/GC521H

RESULT

Micro Biology				
21790.	Parameter	UOM	Method	14 11
1	Total positorm		Standard methods for the examination	Result
	TOTAL COMMITT	MPN/100m/	of water & waste water, 24th ectn, 92218	17

Opinion:

NA

Statement of Conformity NA

END -

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AhP O. BARBIL Ward No-6 Dist. Keenjhar, Odisha - 758035 CIN: US1909WB1956PTC023037



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E : barbii@mitrask.com W www.mitrask.com

	ANALYSIS REPORT OF SURFACE WATER Date: 17.02.2
Name of the Mines	M/s. TATA STEEL LIMITED JODA WEST IRON & MANGANESE MINES (JWIMM)
Date of sampling	03.02.2024 (JWIMM)
Location	Pichlaghat Pomp House Up Stream (JWIMM)

CHEMICAL ANALYSIS OF WATER

SI.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APUA (24th Edition), 52108	CPCB	
5	Calcium (as CaCo3)	mg/l		30	3.3
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 2340 C		9,6
4	Chloride (as CI)	1	APIIA (24th Edition), 5220B	250	12.0
5	DO	mg/l	APHA (24th Edition), 4500 -CI H	+-	8
		mg/l	APRA 24th Edition, 2023 4500-O-C/G	-	5.8
6	Electrical conductivity	tis/cm	APHA (24th Edition), 25108	_	
7.	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B		86
B	Magnesium (as Mg)	mg/l		1	0.36
9	Odour	mg/l	APHA (24th Edition), 3500 Mg.H	_	4.8
10	Oil and Grease	mg/l	APIIA (24th Edition), 215011	Agreeable	Agreeable
11	Phenolia Compounds (as C6H5OH)	-	APHA (24th Edition), 5520B	10	<5.0
2	Salinity Salinity	mg/I	APHA (24th Edition), 5530C (Chloroform Extraction)	1	< 0.001
3		PSU	APHA (24th Edition), 25208		0.046
4	Sulphate (as SQ4)	ing/l	APHA (24th Edition), 4500 SO42-E	-	
5	Total Alkalinity	mg/l	APHA (24th Edition), 5210H		4.8
-	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 25400	~	44
Б	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C		52
7	Total Suspended Solid (as TSS)	mg/l	APRA (24th Edition).25400	Enland	32
8	pH value at 20.5 deg C	None	APHA 24th Edition, 2023 4500-H+H	50/100	4.2
			- 131 Equation 2053 #200-H+R	5.5-9.0	7.32

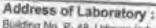
Checked by:

For Mitra S. K. Private Limited

Bhaudhary

Authorized Signatory





Building No. P- 48, Udayan industrial Estate, 3, Pagiadanga Ravd, Kokata 700015 West Sengal

Twl.: +91 7044036120 Email udayaniab@mitrask.com





Scau for Portal

ULR: TC-695024000002313F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd. (MGM)_Joda West

AI/Piz - Joda, Dist - Keonjhur, Odjsha - 758054 India

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUFD/2023-24/85FA5J

13/02/2024

MSKNB/FD/2023-24/02/JC322Z

05/02/2024

05/02/2024 - 13/02/2024

Permanent Facility

3000158017/058 Data - 15/09/2023

Chemical

We hereby certify that the Inliawing sample Drawn by us has been analyzed with the following results:

2. Description of sample	Water & Residue in Water
Unique Identification of sample(if any)	Surface water
Date of sampling	NA NA
Place of sampling	03/02/2024
Environmental conditions during sampling & Transport	Pichlaghat Pump House Down Stream
Sampling Plan & Method used	(2 - 5) deg C Cold chain maintained
Identification of the proposed and	IS 17614 (P-23) 2021
I Identification of the personnel performing sampling by MSK	MUKESH HAIBURU

Report No.: MSKPL/FD/2023-24/85FA5J

Sample No.: MSKNB/FD/2029-24/02/JC3222

RESULT

Chemical		NEOUL	-	
BI No.	Parameter	T man	1	
t .	Aisenic as As	MON	Method	Result
2	Boron as B	reg/l	IS 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	nig/T	IS 3025 (Part 2)	BDL/DL (0.25)
4	Colous	regel	IS 3025 (Part 2)	BOL(DL:0.001)
5	Copper as Cu	Hazen	1S 3025 (Part 4)	BOL(DL-1.0)
6	Cywinide as CN	(Pg/I	IS 3025 (Part 2)	BOL(DL 0.02)
7	Fluoride as F	//gm	15 3025 (Part 27) Sec1	BDL(DL 0.02)
8	Haxayalant Chromism (as Cr+8)	mart	IS 3025 (Part 68)	BOL(DL 0.2)
2		mg/l	IS 3025 (Part 52) Sec2	
10	Litad as Pb	mg/t	(S.3025 (Pan.2)	BDL(DL:001)
13	Manganese as Mn	ing/l	IS 3025 (Part 2)	BDL(DL:0.005)
12	Mercizy as Hg	mg/l	IS 3025 (Part 48)	BOL(DL 0.02)
10	Nitrate as NO3	трл	APHA (24th EDITION) 4500-NO3-B	BOL(DL:0 0002)
10	Zinc ex Zn	mg/l	IS 3025 (Part 2)	0.86
			ro soco (Part 2)	BDL(DL:0.02)

Detnien:

NA

Statement of Conformity

NA

END -

In See Change Essention Change

Authorized Sign

DIENE MINUSENMENT



Address of Laboratory:

Building No. P. 46, Udayan Industrial Estate, 3, Pagladange Road, Kolkata 700015 Wast Bengal

Tel. +91 7044036120 Email udayaniab@mirask.com





Sean for Portst

ULR: TC-6950240000002313F

Name & Address of Customer:

Tora Steel Ltd.(MGM)_Joda West

AtPc - Joda, Dist. - Keomhar, Odisha - 758034 India

TEST REPORT

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/B5FA5J

13/02/2024

MSKNB/FD/2023-24/02/JC3222

05/02/2024

05/02/2024 - 10/02/2024 Permanent Facility

3000156017/056, Date - 15/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

2. Description of sample	Weter & Residue in Water	
3. Unique Identification of sample(if any)	Surface water	
I. Date of sampling	NA.	
5. Place of sampling	03/02/2024	
Sempling Place & Mellione during sampling & Transport	Pichlaghat Pump House Down Sweem	
Sampling Plan & Method used	(2-5) deg C Cold chain maintained	
Identification of the personnel performing sampling by MSK.	IS 17614 (P-25) 2022	
Personning sampling by MSK	MUKESH HAIBURU	

Report No.: MSKFL/FD/2023/24/65FA5J

Sample No.; MSKNB/FD/2023-24/02/JC322Z

RESULT

Micro Biology				
Si No.	Parameter	UOM	T	
			Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water 5 water water, 24th edin, 92218	27

Opinion:

NA

Statement of Conformity

END -

Executive Microbiologies

Automat Digratery

Executive Multicatelogist

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Control port of tarrigative, the channel analysis (Non-) ported size-semilarly) Froc. Waters with the relational for 15 days from the case of the Test Report. Perintment our power of the remaind of days.

The date of seaso of the Test Report. I the blood of season of the Test Property for Court of Land of Land of Land of the received his 15 days so per CPUID pursues 6.45% is more from the date of season of the Test Property of successful for the Alicentestypes analysis (from the date of season) Porce. Season places, Season food) what by retained for 1% days from the date of season of the Test Property.

Strends Cores (Sh Fook , 745 A.J.C. Box Ross, Kriston , 775075, Vise Margar, Felia Ter , Pt. 33 45740000 (27650007 Fest , 91 23 23950008 Treat Principles (Sh Waters were research)

AVP.O. BARBIL Ward No-6 Dist: Keonihar, Odisha - 756035 CIN: U51909WB1956PTC023037



T : +91 B4370 09815,94370 09820,94370 75259

E barbli@mitrask.com W svew mitrask.com

	ANALYSIS REPORT OF SURFACE WATER	Date: 17.02.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	03.02.2024 (WIMM)	
Location	Pichlaghat Khorbandg Down Stream (JWIMM)	

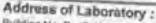
CHEMICAL ANALYSIS OF WATER

SI.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Result
1	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 52108	CPCB	
2	Calcium (as CaCo3)	mg/l		30	<2.0
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 2340 C	-	9.6
4	Chloride (as CI)	-	APIIA (24th Edition), S2208	250	6
5	DO	mg/l	APIIA (24th Edition), 4500 -CI B	-	6
6	Electrical conductivity	mg/l	APHA 24th Edition, 2023 4500-0-C/G	-	6.6
7	A STATE OF THE PARTY OF THE PAR	125/CR	APIIA (24th Edition), 25100	-	
9	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	125
9	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B		1.4
-	Odour	mg/l	APTIA (24th Edition), 2150ff	A	9.6
10	Oil and Grease	mg/l	APHA (24th Edition), 55208	Agreeable	Agreeable
11	Phenolic Compounds (as C6H5OH)	mg/f	APHA (24th Edition), 55300	10	<5,0
12	Salinity		(Chloroform Extraction)	1	< 0.001
3	Sulphate (as SO4)	PSU	ΑΡΗΛ (24th Edition), 25208	-	0.065
4	Total Alkalinity	mg/l	APRA (24th Edition), 4500 SD42-H		4.3
5	Total Dissolved Solids (as TDS)		APRA (Z4th Edition), 5210B		56
6		mg/I	APITA (24th Edition), 2540C	-	76
7	Total Hardness (as CaCO3)	mg/l	APHA (Z4th Edition), 2340 C		64
0	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	
1	pH value at 19.8 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	7.48

Checked by:-

For Mitta S. R. Private Limited
Landhary
Authorized Signatory





Building No. P. 48, Udayan Industrial Estato, 7, Pagladenga Rued, Kolketa 700015 West Bangai

Tel: +91 7044036120 Email: udayanab@mitrask.com





Sexu for Purral

ULR: TC-695024000002542F

Name & Address of Customer:

Titta Steel Ltd./MGM/_Joda West

At/Pix - Joda, Dist. - Keonjher, Odlaha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

07/02/2024 07/02/2024 - 17/02/2024

17/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

MSKPL/FD/2023-24/22FA5J

MSKNB/FD/2023-24/02/W78612

Chemical

We hereby certify that the following attmpts Drawn by us has been energed with the following results:

Group Description of eample Unique Identification of sample(if any)	Water & Residue in Water Sufface Water
4. Date of sampling 5. Place of sampling 6. Environmental conditions during sampling & Transport 7. Sampling Plan & Method used 8. Identification of the personnel performing sampling by MSK	NA D5/02/2024 Keth-Hulting after H- Quarry Down Stream JWMM. (2 - 5) deg C Cold chain maintained IS 17514 (P-23) 2021 Kshitiith Kr Mohanty

Report No. : MSKPL/FD/2023-24/22FA5J

Sample No. : MSKNB-FD/2023-24/02/W78512

RESULT

Bi No.	Parameter	100		
4		DOM	Method	Name of Street
3	Arsenic as As	/mg/l	15 3025 (Part 2)	Result
2	Borron as B	might		BDL(DL:0.005
	Cedmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0:26)
4	Colour	Hazen	IS 3025 (Part 2)	BDL(DL 0.001
5	Copper as Cu		iS 3025 (Part 4)	BOL(DL:1.0)
6	Dywnide as CN	mgit	15 3025 (Part 2)	BDL(DL-0.02)
7	Fluoride as F	/pg/l	IS 3025 (Part 27) Sect	EDL(DL:002)
8	Hexavelent Chromium (se Cr+6)	/tig/l	IS 3026 (Part 60)	0.33
9	Lead as Pb	tng/t	IS 3025 (Part 52) Sec2	BDL(DL.0.01)
10	Mangunese au Mo	Pgm P	45 3025 (Part 2)	
11		/mg/V	IS 3025 (Part 2)	BDL(DL:0.006)
12	Mercury as Hg	rlig/T	IS 3025 (Part 48)	BDL(DL 0.02)
13	Nitrate as NO3	/ng/t	APHA (24th EDITION) 4800 1/25	BDL(DL:00002)
14	Zinc as Zn	mg/F	APHA (24th EDITION) 4500-NO3-B	1/14
		- 191	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion

NA.

Statement of Conformity

END

Aboute Som P. Go Mr. Jarlysta Sanat Mt. Post Carrelal

St. East Chamiet, Drossitive Champion

Mitra S. K. Private Limited Address of Laboratory :

Dreft Hovceway





TC-6950.



Scan for Portal

ULR: 7C-695024000002542F

Name & Address of Customer:

Building No. P. 46, Udayan Industrial Estate. 3, Pagladanga Road, Kolketa 700015

Tata Steel Ltd.(MGM)_Joda West

West Bengal

Tel. +91 7044036120 Email udayanlab@mitrask.com

AtiPts - Joda, Diet - Keonyhur, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/22FA5J

17/02/2024

MSKNB/FD/2023-24/02/W78512

07/02/2024

07/02/2024 - 12/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Biniogical

We hereby certify that the following sample Drawn by us has been energized with the following results:

Description of sample	Water & Residue in Water
3. Unique identification of sample(if any)	Surface Water
4. Date of sampling	NA NA
5. Place of sampling	08/02/2024
5. Environmental conditions during sampling & Transport	Keth-Hutting after H- Quarry Down Stream JWMM
7. Sampling Plan & Method used	(2 - 5) day C Cold chain maintained
6. Identification of the personnel performing sampling by MSK	(5 17614 (P-25) 2022
personning sampling by MSK	Kahitish Kr Mohanly

Report No.: MSKPLFD/2023-24/22FA5J

Sample No.: MSKNB/FD/2023-24/02/M78512

RESULT

ficro Biology		HEGGE		
BI No.	Paramoter	DOM	Harris T	
	2.14		Standard will be the distance of the standard will be the standard willi	Result
	Total coillorny	MPN/100ml	Standard methods for the examination of water & waste water, 24th edin, 92218	14

Opinion:

NA

Statement of Conformity

END-

Mis Germann Champony Енескін Минексери

Automated Dignatory

Districtive Ministratogia

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Treatment pert of sample(s) his chemical prospect (Soil, Soild & Liquid Waller) that his remarked his 15 diagram per CHCM guaranter & (Aut 1) record that it is take of instead floors

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Street's Continu (Sri Floor), 74th A.J.C. Street Rosel, Historia -780016, West Bergal, auto-Tail: 91 32 401-43000 / 22450007 Fav. 31 23 22450008 Crosel: pringgreening cont Wishess I street methods, porc

ALP O SARBIL Ward No-6 Dist. Keenthar, Odisha - 758035 CIN: U51909WB1956PTC023037



T : +91 94370 09815,94370 09820 94370 75269

E bartsigmitrask co in W: www.marask.com

At .	ANALYSIS REPORT OF SURFACE WATER	Date: 20.02.2024
Name of the Mines	M/s. TATA STEEL LIMITED JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	06.02.2024 DANGANESE MINES (JWIMM)	
Location	Keth-Hutting after H- Quarry Down Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI No	Test Parameters	Vaite	Method	Max. Tolerance Limit as per	Result
1	Biochemical Oxygen Demand (as BOD)	tng/l	APHA (24th Estimon), 52108	CPCR	
2	Calcium (as CaCo3)	mg/l		30	<2.0
3	Chemical Oxygen Demand (COD)	-	APRA (24th Edition), 2340 C	-	10
4	Chloride (as CI)	mg/l	APHA (24th Edition), 5220B	250	<4.0
5	DO.	mg/l	APHA (24th Edition), 4500 -CI II	-	8
6	Electrical conductivity	ing/l	APHA 24th Edition, 2023 4500-0-C/G	-	
7		us/cm	APITA (24th Edition), 2510E		7,1
H	Iron (as Fe)	ing/l	APNA (24th Edition), 3500 Fe B	1	99
9	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	-	<0.05
	Odour	mg/I	APHA (24th Edition), 2150B	_	3.8
10	Oil and Grease	mg/1	APHA (24th Edition), 5520ff	Agreeable	Agreeable
11	Phenolic Compounds (as C6H5OH)	mg/I	APHA (24th Edition), 5530C	10	<5.0
2	Salinity	-	(Chloreform Extraction)	1	< 0.001
3	Sulphate (as SO4)	PSU	APRA (24th Edition), 2520B	-	0.052
4	Total Alkalinity	mg/l	APIIA (24th Edition), 4500 SO42-E	-	1.3
5	Total Dissolved Solids (as TDS)		APHA (24th Edillos), 5210H		36
6		mg/l	APHA (24th Edition), 2540C	-	50
7	Total Hardness (as CaCO3)	mg/i	APITA (24th Edition), 2340 C	-	
8	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	40
1	pH value at 26.3 deg C	None	APHA 24th Edition, 2023 4500-0+B	5.5-9.0	<2.5

Checked by:

For Mitra S. K. Private Limited
(Shandhory
Authorized Signatory

Die im Warne Market









ULR: TC-695024000002541F

Address of Laboratory: Building No. P. 48, Udayen Industrial Estate. 3, Pagtadanga Road, Kokala 700015

West Bengal

Tel : +91 7044038120 Email: udayantab@mitrask.com

Name & Address of Customer:

AVPo. - Joda, Dist. - Knonyher, Odisha - 759034 India

Tata Steet Ltd. (MGM)_Loda Wasi.



TEST REPORT

Report No. :

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/CJFA5N

17/02/2024

MakNel/FD/2023-24/02/VAS4F8

07/02/2024

07/02/2024 - 17/02/2024

Permanent Facility

3000156017/056, Data - 16/09/2023

Chemical

We hereby certify that the following semble Drawn by us has been analyzed with the following results.

2. Description of sample	Water & Residue in Water
. Unique Identification of sample(if any)	Surface Water
Date of sampling	NA NA
Place of sampling	06/02/2024
Environmental Conditions during sampling & Transport	Keth -Hutting before H-Charry Lip Stream JWMMM
Sampling Plan & Method used	(2 - 5) deg C Cold chain maintained
Identification of the personnel performing sampling by MSK	IS 17614 (P-23) 2021
sampling by MSK	Kshilish Kr Mohanty

Report No.: MSKPL/FD/2023-24/CJFA5N

Sample No.: MSIONB/FD/2023-24/02/VAS4F8

RESULT

Chemical				
S) No.	Parameter	MON		
1	Arkenic es As		Method	Remilt
2	Boton as B	mg/l	IS 3025 (Part 2)	BDL(DL-0.005
3	Cadmium as Cd	Ngm	(S 3025 (Part 2)	EOL/DL: 0.25)
4	Colour	mg/l	iS 3025 (Part 2)	BDL(DL:0 001
5	Copper as Cu	Plazen	iS 3025 (Part 4)	BDL(DL:10)
6	Cyanide as CN	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)
7	Fluoride as F	1192/7	IS 3025 (Part 27) Sect	
8	Hexavolent Chromium (as Cre6)	mg/l	IS 3025 (Part 60)	BDL(DL0 02)
9	Lead as Pb	mg/l	IS 3025 (Part 52) Sec2	0.29
10	Manganese as Mn	Nem	IS 3025 (Part 2)	BDL(DL.0.01)
11		mg/t	15 3025 (Part 2)	BDL(DL:0.005)
12	Mercury as Hig	mg/l	IS 3025 (Part 48)	BDL(DL-0.02)
13	Mitrate as NOS	mgn	APHA (24th EDITION) 4500-NO3-B	BDL(DL:0.0002)
-	Zint as Zn	mg/l	(6 3025 (Part 2)	1.08
			in seen (Fail 5)	BDL(DL:0.02)

Opinion:

MA

Statement of Conformily

NA

END .

Ma. Arresta Store, Ma. Fiel Clargets

Se Kny Daniel, Deskilys Chemin

Lab to Clarge

Mitra S. K. Private Limited Address of Laboratory:

Trocks MEQGENIAN







Scan for Portal

ULR: TC-895024000002541F

TC-6950

Name & Address of Customer;

Building No. P. 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015

Tata Steel Ltd. (MGM)_Jone West

West Bengal

Tel :+91 7044036120 Email: udayanisb@milrask.com

At/Po. - Jodd, Dist. - Keonthar, Ocisha - 758034 India

TEST REPORT

Report No. :

Sample No. :

Date:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUFD/2023-24/CJFA5N

17/02/2024

MSXNB/FD/2023-24/02/VAS4F8

07/02/2024

07/02/2024 - 12/02/2024

Permanent Facility

3000158017/066, Date - 16/09/2023

Biological

We hareby certify that the indowing sample Drawn by us has been unalyzed with the following results.

2. Description of sample	Water & Residue in Water
1. Unique identification of sample(if any)	Surface Water
Data of sampling	16A
Place of sampling	08/02/2024
. Environmental conditions during sampling & Transport	Ketir -Hutting before H-Courty Up Stream JWMM
	(2 - 5) deg C Cold chain maintained
identification of the personnel performing sampling by MSK	IS 17814 (P-25) 2022
performing sampling by MSK	Kishtish Kr Mohanty

Report No. : MSKPL/FD/2023-34/GJFA5N

Sample No.: MSKNB/FD/2023-24/02/VAS4F8

RESULT

Micro Biology		RESULT		
SI No.	Parameter	liou.		
14		MOM	Method	Result
-	Tatal collors	MPN/100ms	Standard methods for the examination of water & waste water, 24th lefth, 92218	7.8

Opinion

MA

Statement of Conformity

END -

Empulye Microbiologie

Authorist Sigmony

Driettie Victoriages

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Promotive part of perspects) for chemical progress (Nov. - personalise surrounce) Fund. Western small bis relative to days from the case of the Tool Report. Personnel complete progress (Nov. - personnels) shad be related to related from the Contract Report.

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Timus - relogiosissas trom Weicoles - were militare com

AIP O BARBIL Ward No-6 Dist. Keoniher, Odisha - 788035 CIN: U51909WB1959PTC023037



T +91 94370 09815,94370 09820,94370 75269

E barbit@yntrask.co.in W www.mtrask.com

	ANALYSIS REPORT OF SURFACE WATER Date: 20.02.202
Name of the Mines	M/S. PATA STEEL LIMITED
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 06.02.2024
Location	Keth -Hutting before H-Quarry Up Stream (JWIMM)

CHEMICAL ANALYSIS OF WATER

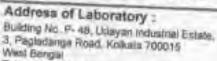
SI.	Test Parameters	Unite	Method	Max, Tolerance Limit as per	Results
1	Biochemical Oxygen Demand (as BOD)	mg/f	APHA (24th Edition), 5219H	СРСВ	
2	Cálcium (as CaCo3)	mg/l	The second secon	30	<2.0
3	Chemical Oxygen Demand (COD)	-	APHA (24th Editine), 2340 C	-	10
4	Chloride (as Cl.)	mg/I	APHA (24th Edition), 52208	250	<4.0
5	DO	mg/l	APHA (Z4th Edition), 4500 -CJ B		4
6	Electrical conductivity	mg/l	APHA 24th Edition, 2023-4500-0-C/G.	-	7.2
7	Iron (as Fe)	izs/cen	APRA (24th Edition), 2510R	-	97
8		mg/l	APRA (Z4th Edition), 3500 Fe 8	3	0.13
9	Magnesium (as Mg) Odour	mg/l	APIIA (24th Edition), 3500 Mg B		
10		mg/1	APRA (24th Edition), 21509	Agreeable	4.3
11	Oil and Grease	mg/l	APHA (24th Edition), \$520B	10	Agreeable
	Phenolic Compounds (as C6H5OH)	mg/1	APHA (24th Edition) 5530r	70	<5.0
12	Salinity	PSU	(Chloroform Extraction) APHA (24th Edition), 25200	1	<0.001
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 S042-E		0.051
4	Total Alkalinity	-	APHA (24th Edition), 521011	-	< 1.0
5	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	_	44
6	Total Hardness (as CaCO3)	mg/l		-	58
7	Total Suspended Solid (as TSS)	mg/l	APRIA (24th Edition), 2340 C	-	44
9	pH value at 23.7 deg C	None	APITA (24th Edition),25400	50/100	<2.5
-		77000	APILA 24th Edition, 2023 4500-II+II	5.5-9.0	7.10

Checked by: (18)

For Mitra S. K. Private Limited
(18 Parcollary
Authorized Signatory

Own No. MSKIDENHIOT





West Bengal Tel.: +51 7044036120 Email udayanlab@mereak.com





Sean for Portal

ULR: TC-895024000002558F

Name & Address of Customer:

Titta Steel Ltd (MGM)_Joda West

AtPo. - Jode Dist - Keonjhar Odisha - 758034 logia

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/REFA5X

17/02/2024

MSKNB/FD/2023-24/02/1054E#

07/02/2024

07/02/2024 - 17/02/2024

Permanent Facury

3000156017/056, Date - 16/09/2023

Charmon

We hereby certify that the following summer Drawn by we has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
. Unique Identification of sample(if any)	Surface Water
t. Date of sampling	NA.
2. Place of sampling	06/02/2024
I. Environmental conditions during sampling & Transport	Pond water Near ST High School Bruya Roica JWMM
7. Sampling Plan & Method used	(2 - 5) deg C Cold chair multilained
I Identification of the name and	(5 17614 (P-23) 2021
I Identification of the personnel performing sampling by MSK	Kahilish Kr Mohanty

Report No.: MSKPL/FD/2023-24/REFAEX

Sample No.: MSKNB/FD/2023-24/02/1054EA

RESULT

Chemical				
BI No.	Parameter	How		
1	Arsenic as As	HOM	Method	Result
2	Boron as B	mg/l	18 3025 (Part 2)	BDL(DL 0.005
3	Cadmium as Cd	mg/l	tS 3025 (Part 2)	BDL(DL:0.25)
4	Colour	mg/I	IS 3025 (Part 2)	BDL(DL:0.001
5	Cosper as Cu	Haten	IS 3025 (Part 4)	
5	Cylenide as CN	Nom	IS 3025 (Part 2)	BDL(DL-1,0)
7	Fluoride as F	mg/l	IS 3025 (Part 27) Sec1	BDL(DL-0.02)
8		Ng/I	IS 3025 (Part 60)	BOL(DL:d:02)
9	Hexavalent Chromium (as Cr+S)	mg/t	IS 3025 (Part 52) Sec2	0.35
10	Lead on Po	nem	IS 3025 (Part 2)	BDL(DL 0 01)
11	Menganiese as Mn	mg/t	IS 3025 (Part 2)	BDL(DL:0.005)
12	Mercury as Hg	rng/l	IS 3025 (Part 48)	BDL(DL 0.02)
13	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NG3-B	BDL(DL-0.0002)
12	Zinc as Zn	mg/l	IS SOME OF A BOOL NOS B	2.65
		1100	IS 3025 (Part 2)	BOL(DL:0.02)

Opinion:

NA.

Statement of Conformity

END.

Atrayer Sair

Mr. Abdyre Sala, Mr. Pan Derguly

In East Disease, Emputing Disease

Mitra S. K. Private Limited Address of Laboratory:



TC-6950



Scan for Portal

ULR: TC-595024000002538F

Name & Address of Customer:

Building No. P. 48, Udayan Industrial Estate. 3, Pagledanga Road, Kokata 700015

Tala Steel Ltd (MGM)_Joda West

West Bengal

Tel.: +91 7044038120 Errail odayanlab@milrask.com

AbPo. - Joda, Dist. - Keenshar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPLIFDI2023-24/REFASX

17/02/2024

MSKNB/FD/2023-24/02/1054EA

07/02/2024

07/02/2024 - 12/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Biological

We hereby certify that the following sample Direct by us has been analyzed with the following results:

2. Description of sample	Water & Residue in Water
. Unique identification of sample(if any)	Surface Water
4. Data of sampling	NA.
5. Place of sampling	06/02/2024
Freingen Flag & Marie during sampling & Transport	Pond water Hear ST High School Bhuys Rolds JARMA
The state of the s	(2 - 5) deg C Cold chain maintained
I Identification of the personnel performing sampling by MSK	IS 17814 (P-25) 2022
M9K grilling sampling by M9K	Kshitish Ki Mohanty

Report No. ; MSKPL/FD/2023-24/REFASX

Sample No. : MSKNB/FD/2023-24/02/H054EA

RESULT

(Inter	1	
	Method	Result
MPN/100ml	Standard methods for the examination of water & waste water, 24th ledin.	5.8
	MPN/100ml	Standard multipode for the course

NA

Statement of Conformity

NA

END -

Authorized Signaling

Detroited Microbinioger

and primale strong for their description between

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ALP O BARBIL Ward No 8 Dist: Keonjhar, Odisha - 758035 CIN: US1909WB1956PTC023037



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E barbil@mitrask.co.in W www.mitrask.com

	ANALYSIS REPORT OF SURFACE WATER
rame of the Chent	M/s, TATA STEEL LIMITED
Name of the Mines Date of sampling	JODA WEST IRON & MANGANESE MINES (IWIMM)
Location	Pond Water Near 5T High School Bhuiya Roida (JWIMM)

CHEMICAL ANALYSIS OF WATER

St. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per	Results
a	Biochiemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	CPCB	
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	30	<2.0
3	Chemical Oxygen Demand (COD)	mg/1		_	12.8
A	Chloride (as CI)	-	APHA (24th Edition), 52200	250	<4.0
5	DO	mg/l	APHA (Z4th Edition), 4500 -CJ E	***	20
6		mg/l	APHA 24th Edition, 2023 4500-0-C/G	-	5.2
7	Electrical conductivity	tus/cm	APITA (24th Edition), 25108	-	199
8	Iron (as Fe)	mg/L	APHA (24th Edition), 3500 Fe B	3	0.1
	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg II		
9	Odour	mg/I	APMA (24th Edition), 2150B	Actor Cont.	3.8
16	Oil and Grease	mg/I	APHA (24th Edition), \$520B	Agreeable 10	Agreeable
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), \$530C	10	<5.0
12	Salinity	-	(Chloroform Extraction)	1	< 0.001
13	Sulphate (as SO4)	PSU	APILA (24th Edition), 2520B	-	0,078
14	Total Alkalinity	mg/I	APHA (24th Edition), 4500 SQ42-E	-	8.5
15		mg/I	APILA (24th Edition), 52108	- 1	60
6	Total Dissolved Solids (as TDS)	mg/l	APHA (25th Edition), 2540C		122
7	Total Hardness (as CaCO3)	mg/l	APHA (24th fidition), 2340 C	-	48
	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	
B	pH value at 19.2 deg C	None	APIIA 24th Edition, 2023 4500-8+B	5.5-9.0	6,67

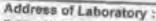
Checked by:- (18)

For Mitra S. K. Private Limited

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Authorized Signatory





Bullding No. P. 48, Udeyan Industrial Estate. 3, Pagladanga Road, Kolketa 700015 West Bengal

Tel.: +91 7044038120

Ernsil udayanlab@niluask.com

Name & Address of Customer:

AVPo. - Josta, Diet. - Reocenar, Odisha - 758034. India

Teta Steel Ltd (MGM)_Joda West



TC-6850



Scan for Portal

ULR: TC-6950240000002475F

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/5HFBAH

18/02/2024

MSKNB/FD/2023-24/02/ZXY4FV

07/02/2024

07/02/2024 - 18/02/2024

Permenent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the ibinawing sample Drawn by us has belin analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Charles Miles
Unique identification of sample(if any)	Drinking Weser
4. Date of sampling	NA
5. Place of sampling	06/02/2024
6. Environmental conditions during	Bichakundi WTP Outlet
6. Environmental conditions during sampling \$ Transport	(2-5) dag C Cold chain maintained
7, Sampling Plan & Method used	(5(1)514(P-5) 2022
8. identification of the personnel performing sampling by MSK	Lain Naik

Report No.: MSKPUFDG023-24/SHFBAH

Sample No.: MSKNB/FD/2023-24/02/2XYAFV

RESULT

Chemical						
31 No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Amount
1	Arsonic as As	mg/l	1S 3025 (Pari 2)	0.01		BDL(DL 0.00
2	Zinc as Zn	mg/l	IS 3025 (Part 2)		No Relaxation	merejo Estado.
3	Colour	Harsin	18 3025 (Part 4)	5	15	BIDLIDIC 0.02
4	Copper as Cu	Agm		5	15	BOL(DL:1.0)
5	Cyanide as CN	mg/l	(8 3025 (Part 2)	0.05	1.5	BDL(DL:00Z
8	Flagode as F	1	15 3025 (Part 27) Sec1	0.05	No Remaration	BDL(DL-0.02)
7		mg/f	18 3025 (Part 60)	1,0	1.5	BDL/DL 0.21
	Lead as Pb	Ingil	IS 3025 (Part 2)	0.01	No Relaxation	BOL(DL:0.005
B	Manganesa se Mr.	mg/l	IS 3025 (Part 2)	0.1		mes
3	Metcury as Hg	mg/i	IS-3025 (Part 48)	0.001	0.3	BDL(DL:0.02)
10	Nickel (as No	hom	15 3025 (Part 2)		No Relaxation	2)
11	Mirain as NOS		APHA (248) EDITION) 4500	0.62	No Relixation	BDL(DL:061)
	LANCAGE NE DADO	mg/l	NO3- B	45	No Relexation	BDL(DLOA)
12	Selenium M Se	mg/r	(\$ 3025 (Part 2)	0.01	No Relocation	BDL(DL:0.005
13	Silica (as SiO2)	mg/l	13 3025 (Part 35)			7
24	Silver to Ag	mg/l		No Specified	Not Specified	BOL(DL 0 1)
15	Total Chromium as Cr		IS 3025 (Part 2)	0.1	No Relaxation	BDL(DL-0,005
		mg/li	US 3025 (Part.2)	0.06	No Relaxation	BDL(DL0.01)
15.	Cadmium as Cd	mg/l	I\$ 3025 (Part 2)	0.003	No Réluxation	BDL(DL:0.001

Personal Sy:

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Aliena

Deservice

Linna

Address of Laboratory :

Building No. P- 48, Udayen Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Bergal

Tel. +91 7044038120 Email: udāyanlab@mitraak.cam

Name & Address of Customer:

ANPo. - Joda, Dist. - Kespijhar, Odleha - 758034. India

Tata Steet Ltd (MGM)_Joda West





Scan for Portal

ULR: TC-695024000002475F

DISCHALL MICHOGENITACY

TESTING VINISPECTION

TC-8950

TEST REPORT

Report No. :

Date:

MSKPL/FD/2023-24/5HFBAH

16/02/2024

Sample No.:

MSKNB/FD/2023-24/02/ZXY4FV

Date of receipt of sample:

07/02/2024

Date(s) of performance: Location of performance of

07/02/2024 - 06/02/2024

Permanent Facility

Reference No. & Date :

3000155017/056, Date - 15/09/2023

Discipline:

Biolópical

We hereby certify that the following sample Drawn by us has been analy 1. Group	
2. Description of sample	Water & Residue in Water
3. Unique identification of sample(if any)	Drinking Water
4. Date of sampling	NA
5. Place of sampling	06/02/2024
6 Fruimperental and this control of	Bichekundi WTP Outer
6. Environmental conditions during sampling & Transport	(2-5) dag C Cold chain maintained
7. Sampling Plan & Method used	15.17614(P-25) 2022
Identification of the personnel performing sampling by MSA.	Lain Naih

Report No. 1 MSKPUFD/2023-24/6HFBAH

Sample No.: MSKNB/FD/2023-24/02/ZXY4FV

RESULT

t Total Coliform Becteria Pi00ml IS 15185 Not Detectable Limit Permissible Limit Result 2 F Coll March IS 15185 Not Detectable Not Applicable Not Detectable	51.No.	Parameter	NOW					
2 F Coll 1600 15 15185 Not Districtable Not Applicable Not Detects				Method	Acceptable Limit	Permissible Limit	Description	
2 F Call Hear Not Delecte	1	Total Collors Bacteria	MOOmi	IS 15185			Venanii.	
15 15185 Not Detectable Not Applicable Not Applicable Not Applicable	2	E Coll	/100ml	IS 15185		Not Applicable	Not Delected	

Opinion:

Acceptable limit & Permissible limit are as per IS:10600.2012

Statement of Conformity

NA

END -

restored Stores

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Street Gene (56 Faor), 748, A.J.C. Rose Road, Kulkara - 700016, What Bergal, India Tax. 181 32 40140000 / 27450007 Fair: 91.35 22850008 (Tree: 14420 mail: 022 Wilcoln, sure released-201)

AVP O BARBIL Ward No-6 Dist. Keonjhar, Odeha - 758035 GIN: U51909WB1956PTC023037



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E transla@metrask.co.int W: www.mitrask.com

	ANALVEIC DEPORT OF THE	Date: 20.02,2024
Name of the Client	ANALYSIS REPORT OF DRINKING WATER	
	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	06.02.2024 (WIMIN)	
Location	Bichakundi WTP Out let (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SI.	Test Parameters	Unite	Method	Norms as		
i	Ammonical Nitrogen			Desirable Limit	Permissible Limit	Results
2		mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	10.4
	Calcium (as Ca)	mg/l	APRA (24th Edition), 3500 CaB	75	200	-0.1
3	Chloride (as Cl)	mg/l	APHA (24th Edition),4500-CLB	250		14
4	Odour	Hazen	3025 (Part-5)-1983:Rffin:2012	-	1000	1.2
5	Electrical conductivity	us/cm		Agreeable	Agreeable	Agreeable
ō	Iron (as Fe)	1	APRA (24th Edition),25100	-	-	98
7	Magnesium (as Mg)	mg/l	APHA (Z4th Edition),3500 Fe B	0.3	No Relaxation	<0.05
-		mg/l	APHA (24th Edition), 3500 Mg B	30	100	1.9
8	Phenolic Compound (asC6H50H]	mg/l	APHA (24th Edition), 5530C (Chloroform Estraction)	0.001	0.062	<0.001
9	Potassium (as K)	mg/l	APRA (24th Edition), 3500 KB		2000	SUAPUL
10	Salinity	PSU	APHA (24th Edition), 25208			<1.0
11	Sodium (as Na)	mg/I	APHA (24th Edition), 3500 Na II		-	0.052
12	Sulphare (as SO4)	mg/l		_	-	3,3
13	Taste	1	APRA (24th Edition) 4500 SO42-E	200	400	<1.0
14		None	IS 3025 (Part 8)-1983 Rffm:2012 (O)	Agreeable	Agreeable	Agreeable
	Total Alkalinity (as CaCO3)	mg/l	APMA (24th Edition), 23208	200	600	28
15	Tetal Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	500	2000	
16	Total Hardness (as CaCO3)	mg/I	APRA (24th Edition), 2340 C	200		60
17	Total Suspended Solid (as TSS)	mg/1	APHA (24th Edition),2540D	211	600	44
18	Turbidity	N.T.U			199	<2.5
19.	pH value at 25 deg C	-	APHA (24th Edition), 21300	1	5	<1.0
	the same at 20 neg c.	None	APHA 24th Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	7.89

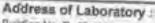
Checked by:

For Mitra S. K. Private Limited

Authorized Signatory

Dischis Missignitude





Building No. P- 48, Udayan Industrial Estate. 3, Pagledanga Road, Kolkala 700015 West Bengal

Name & Address of Customer:

At/Po - Joda Dist - Keonjhar, Odelia - 756034 India

Tata Steel Ltd.(MGM) Joda West

Tel.: +91 7044036120 Email unayanisb@minask.com





Sem for Fortal

ULR: TC-695024000003018F

TEST REPORT

Report No. :

MSKPL/FD/2023-24/7CFCBH

Date:

28/02/2024

Sample No. :

MSKNB/FD/2023-24/02/P7128Y

Date of receipt of sample:

15/02/2024

Date(s) of performance: Location of performance of

15/02/2024 - 16/02/2024

Reference No. & Date :

Permanent Facility

3000156017/056, Date - 15/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water 5 Residue in Water Didnking Water NA
14/02/2024 Jordon pit office (BIMM) R. D. water (2-5) deg C. Cold chain maintained 15:17614(P-25) 2022 PRANAE SETHI

Report No.: MSKPL/FD/2023-24/7CFCBH

Sample No.: MSKNE/FD/2023-24/02/P712BY

RESULT

Micro Biology							
SI No.	Parameter	UGM	Method	Lancon			
1	Total Collenn Bacierus	/100ms			Permissible Limit	Resulti	
2	E. coli	(100ml	IS 15185	Not Detectable	Not Applicable	Not Detected	
		1 - FOOTH	IS 15185	Not Detectable	Not Applicable	Not Detected	

Opinion:

Acceptable ima & Permusible limit are as per IS 10500:2012

Statement of Confirmity

- END -

word Chatrations

Executive Microscoper

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to recovery just of barragers to create analysis (from - percentage company) Foot, Water) shall be returned to 15 may from the date of create of the Test Request, Parlaboline completes and the desired of the Control of the Control

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AUP O. BARBIL Ward No-8 Diet: Keonjhar, Odeha - 758035 CIN US1809WB1956PTG023037



7 +91 94370 09815.94370 09820.94370 75269 E : berold@métask.co in

W : www.merask.com

	ANALYSIS REPORT OF DRINKING WATER	2,2024
Name of the Client Name of the Mines	M/s. TATA STEEL LIMITED BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	14.02.2024 MANGANESE MINES (BIMM)	
Location	Joribar Pit Office R O Water (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SI.	Mark Constant Constan	Unite	Method	-	per IS: 10500- 2012	
1	Ammoulcal Nitrogen	han 0		Desirable Limit	Permissible Limit	Results
2	Colcium (as Ca)	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	-0.0
3	The second secon	mg/l	APHA (24th Edition),3500 Cn B	75	200	50.1
	Chloride (as CI)	mg/I	APHA (24th Edition),4500 -CLB	250	1000	22
4	Odour	Hazen	3025 (Part-5)-1983;RHm:2012	-	1000	18
S	Electrical conductivity	us/cm		Agreeable	Agreeable	Agreeable
6	Iron (as Fe)	1	APHA (24th Edition),25108	-	-	221
7	Magnesium (as Mg)	mg/I	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	=0.05
_		mg/l	APHA (24th Edition), 3500 Mg R	30	100	
8	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0,002	13
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 KB	0.001		≈0.001
10	Salinity	PSU	APRA (Z4th Edition), 25208			<1.0
11	Sodium (as Na)	mg/l		~	_	0.113
12	Sulphate (as SO4)		APHA (24th Edition), 3500 Na B	-	-	3.4
13	Taste	mg/l	APHA (24th Edition) 4500 5042-E	200	400	<1.0
		None	IS 3025 (Part 8)-1983 Rffm: 2012 (0)	Agreeable	Agreeable	
14	Total Alkalinity (as CaCO3)	mg/J	APHA (24th Edition), Z320B	200	114 40 1111	Agreeable
15	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	200	600	94
16	Total Bardness (as CaCO3)	mg/l		500	2000	136
17	Total Suspended Solid (as TSS)		APHA (24th Edition), 2340 C	200	600	108
18	Turbidity	mg/l	APRA (24th Edition),2540D	-	-	<2.5
		N.T.U	APIIA (Z4th Edition), 2130B	1	- 5	
19	pH value at 25 deg C	None	APHA 24th Edition, 2023,4500,H+II	6.5-8.5	No Relaxation	<1.0 7.39

Checked by:

For Mitra S. K. Private Limited

Authorized Signatory

Address of Laboratory :

Building No. P.-48, Udayan Industrial Eatate, 3. Pagladanga Road, Kolkata 700015

West Bengal

Tel.: +91 7044036120

Email: udayanisb@mitrask.com

Tata Steel Ltd (MGM)_stoda West

Name & Address of Customer :

At/Po - Joda Dist - Keorijhar, Odisha - 758034 India





Sky MSQCS-Return

Scan for Portal

ULR: TC-695024000002318F

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/3023-24/B (29CY

13/02/2024

MSKNEJED/2023-24/02/VB883Y

05/02/2024

05/02/2024 - 13/02/2024

Permanent Facility

3000156017/056, Dale - 10/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyted with the following results

Group Description of sample	Pollution & Environment
Unique Identification of sample(if any)	Wastin Water (Effluents)
4. Date of sampling	NA NA
5. Place of sampling	B3/02/2024
6. Environmental conditions during sampling & Transport	Joda west Oil sepration Near BS Mining Garage
r. amopung Pian & Method used	[2-5] deg C Cold chain maintained
identification of the personnel performing sampling by MSK.	APHA 24th sidition,2023
9. Field Equipments Used	Kshitiga Kamar Mohanty
	N/A

Report No. :

MSKPL/ED/2023-24/B129CY

Sample No. :

MSKNB/ED/2023-24/02/VB883Y

RESULT

51 No.	Paramijer	MOIL	2017	-
1	Amenic as (As)		Minibati	Result
2	Boron (ass B)	mg/l	APHA (Z4th Edition), 3120 B	BOL/DL:0 005
2	Cadmium as Cd	Tum/	APHA (24th Edition) 4500 - B C	0.8
4	Golour	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.06)
5	Copper (as Cu)	Hazen	APHA (24th Edition), 21208	BDL(DL 5 0)
6		img/li.	APHA (24th Edition), 3120 E	BOL(OL (105)
7	Cyanide (as CN)	mg/l	APHA (24th Edition), 4500 CN - F	BQL(DL 0.02)
6	Fluoride (as F)	mg/i	APHA (24th Edition), 4500 F- C/D	0.67
B	Hexavalent Chromium (as Cr+6)	.ing/l	APHA (24th Edition), 3500 Cr B	BOL(OL:0.05)
10	Lead (as Pb)	mg/i	APHA (24th Edition), 3120 B	BDL(DL:0.05)
43	Manganese (az Mn)	mg/l	APHA (248) Edillon), 3120 B	4.84
12	Mercury (as Fig.)	mg/l	APNA (24th Edition) 3112 B	
15	Nitrate (as NO3 1	mg/i	APHA (24th Edition), 4500 NO3-E	BDL(DL:0.001)
oinion :	Zinc (as Zn) NA	Ngm	APNA (24th Edition), 3120 B	0.73 BDL(DL:0.05)

Statement of Conformity

END-

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Tel.: +91 7044036120 Email: udayerlab@mitrask.com





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TERTING A INSPECTION

Scan for Portal

ULR: TC-895024000002318F

Name & Address of Customer:

Tota Steel Ltd (MGM) Joda West

AtiPo - Jista, Dist - Keoninar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/8129CY

13/02/2024

MSKNB/ED/2023-24/02/VB883Y

05/02/2024

05/02/2024 - 10/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biológical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	
2. Description of sample	Pollution & Environment
Unique Identification of sample(if any)	Waste Water (Efficients)
Date of sampling	NA NA
5. Place of sampling	03/02/2024
. Environmental conditions during sampling & Transport	Joda west Oil septation Near BS Mining Garage
. Sampling Plan & Method used	(2-5) dag C Cold chain meintained
Identification of the personnel performing sampling by MSK.	APHA 24th edition 2023
Flaid Equipments Used	Kehilisa Kumar Mohaniy
7.000	NA

Report No.: MSKFL/E0/2023-24/6129CY

Sample No.: MSKNB/ED/2023-24/02/VB683Y

RESULT

Micro Biology				
81 No.	Parameter	NOM	Marine T	
4	Total poliform		Standard methods for the examination of water &	Result
		min (W) DOLESS	waste water 24th edin, 9221B	70
pinion:	ten.			

Statement of Conformity

NA.

EMD.

Егролин Мисиформ

Substant Signal

Paper Dimension

Executive Memoraphy

consults remain any to the isomical makes.

If then diapost all all out its reproduced secured in full secretarities permission of Many S.K. Private United reported part of samples) by channel analysis (Nan-particular samples) Food. Water; shall be related by 15 days from the sale of the Septim Fermi also purpose; and by respect to related by 15 days from the sale of the Septim Fermi also purpose; and by respect to the sale of the sale of the Septim Fermi also purpose; and by the respect of the sale of the sale of the Septim Fermi also purpose; and the sale of the

It for class of status of the Test propose.

The class of status of the Test propose (See See & Light) Version shall be received by 15 days as the CPCB purposes & [Au] 1 month than the same of status of the Test Report of the See o Sympol Carara (Mili Fessi), 746, A.J.C. Sinas Road, Kolkaia - 700016, Wash Sangal, India. Tal. 97 23 40 60000 / 20000007 Fax: 117 33 23600005 Frield Integligibules.com Watches Inventories.com

At/F.O.:BARBIL Ward No-5 Dist. Keonjhar, Odisha - 758035 CIN: U51909WB1956FTC023037



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E barbi@merask.com W www.mstrask.com

Report No. MSKGL/ED/20	ALYSIS REPORT OF WASTE/EFFLUENT WATE	Date: 17.02.2024
AN.	R	
Name of the Client	M/s. TATA STEEL LIMITED	23
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM	
Date of sampling	03.02.2024	
Location	Joda West Oil Separation Water Near BS Mining Gara	es Ownord

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C		
3	Chemical Oxygen Demand (COD)	mg/t	APRA (Z4th Edition), 5220B	250	32
4	Chloride (as Cl)	ntg/I	APHA (24th Edition), 4500 -ct R	430	6.4
5	DO	mg/l	APHA 24th Edition, 2023 4500-0-C/G		18
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510B		5.5
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Pe II	3	299
8	Magnesium (as Mg)	mg/I		3	0.65
9	Odour	mg/l	APHA (24th Edition), 3500 Mg B	_	17
10	Oil and Grease	mg/i	APRA (24th Edition), 21508	Agreeable	Agreeabl
11	Contract of the contract of th		APHA (24th Edition), 55208	10	<5.0
12	Phenolic Compounds (as C6H5OH)	mg/t	APHA (24th Edition), 5530C (Chloroform Entraction)	1	<0.001
13	Salinity	PSU	APNA (24th Edition), 2520H	-	0.153
14	Sulphate (as SO4)	ing/l	APHA (24th Edition), 4500 S042-E	-	22
	Total Alkalinity	mg/l	APHA (24th Edition), 5210b	19	104
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C		180
16	Total Hardness (as CaCO3)	mg/I	APRA (24th Edition), 2340 C	- Tan-	-
7	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	152
8	pH value at 23.7 deg C	None	APBA 24th Edition, 2023 4500-H+B	5.5-9.0	6.95

Checked by:

For Mitra S. K. Private Limited

Bhandhary Authorized Signatory

H. O.: Shraphi Centre (5th Floor), 748, Acherya Jagadish Chandra Bose Road, Kolkata – 700 016, West Bengal, India T: 91 33 22172249 / 4014 3000 / 2265 0006 / 2265 0007 F: 91 33 2265 0008 E:info@mitrask.com W, www.mitrask.com

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Report No. MSKGL/ED/20	023-24/005038 Date:	17.02.2024
AN	ALYSIS REPORT OF WASTE/EFFLUENT WATER	1 / Wanding
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	-
Date of sampling	03.02.2024	-
Location	Joda West Oil Separation Water Near BS Mining Garage (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
3	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/l	APNA (24th Edition), 2340 C	-	
3	Chemical Oxygen Demand (COD)	mg/l	APIIA (24th Edition), 5220B	250	6.4
4	Chloride (as Cl.)	mg/l	APHA (24th Edition), 4500 40 B		
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G		18
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510B	-	6.5
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	299
B	Magnesium (as Mg)	mg/f	APHA (24th Edition), 3500 Mg B		0.65
9	Odour	mg/l	APHA (Z4th Edition), 21508	4000000	17
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	Agreeable 10	Agreeable
1.1	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 55300 (Chloroform Extraction)	1	< 0.001
12	Salinity	PSU	APHA (24th Edition), 25206	-	0.153
13	Sulphate (as SO4)	ntg/l	APHA (24th Edition), 4500 St)42-E		22
14	Total Alkalinity	mg/L	APRA (24th Edition), 5210B	-	104
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 25400	-	
16	Total Hardness (as CaCO3)	ing/l	APHA (24th Edition), 2340 C	-	180
17	Total Suspended Solid (as TSS)	mg/I	APBA (24th Edition),25400	50/100	152
18	pH value at 23.7 deg C	None	APHA 24th Edition, 2023 4500-R+B	5.5-9.0	6.95

Checked by: (At

For Mitra S. K. Private Limited

Bhandhary Authorized Signatory

DUCKS: MERCHENHAUT





Building No. P-48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Sengal

Name & Address of Customer:

AbPo. - Joda, Dist. - Keonjhar, Odeha - 758034 India

Tate Steel Ltd (MGM), Jode West

Tel.: +91.7044036120 Emait udayanlab@ontrask.com



TEST REPORT

ULR: TC-8950240000000088F

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/T8F0A7

08/02/2024

MSKNB/FD/2023-24/01/Q41BA3

27/01/2024

27/01/2024 - 08/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	Primer & Potosoue in Water
3. Unique Identification of sample(if any)	DRINKING WATER
- vinque roentificación of sample(if any)	NA NA
4. Date of sampling	24/01/2024
5. Place of sampling	BBL-4456 Bichakungi WTP Inlet
6. Environmental conditions during sampling & Transport	Security Districted ALIA INIC
7. Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
Manager and the second second	IS:17614(P-5) 2022
8. Identification of the personnel performing aumpling by MSK	Prariab Xr. Mahanta
Report No.: MSKPL/FD/2023-24/T8F0A7	

Report No.: MSKPL/FD/2023-24/T8F0A7

Sample No.: MSKNBFD/2023-24/01/Q418A3

RESULT

Section 1			THE SOL I			
Chemical						
Si No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	20.00
1	Carlonary as Cd	mgd	IS 3025 (Part 2)			Result
2	Total Chromium as Cr	mgf	IS 3025 (Part 2)	8.003	No Relaxation	BDL(DL:0.001
3	Silver as Ag	Tom	18 3025 (Part 2)	0.05	No relaxation	8DL(DL:0.01)
4	Silica as SiO2	mgri	15 3025 (Part 35)	0.1	No Relexation	BDL/DL:0.005
5	Selenium as Se			Not specified	Not specified	BDL(DE:0.1)
6	Mercury as Hg	mg/l	iS 3025 (Part 2)	3.01	No relocation	BDL(DL:0.005)
7	Znc as Zn	reg/l	iS 3025 (Part 48)	0.001	No relaxation	80L(DL 0.0002
8	The second second	mg/l	IS 3025 (Part 2)		15	BDL(DL:0:02)
9	Colour	Hazen	IS 3025 (Part 4)	5	15	BDL(DL:1.0)
and the second second second	Cyanide as CN	mgs	IS 3025 (Part 27) Sec1	0.06	No retaxation	BDL(DL:0.02)
10	Fluoride as F	mg/l	15 3025 (Part 60)	1.0	1.5	BDL(DL:0.2)
11	Nitrate as NO3	mg/l	APHA (248) EDITION) 4500-NO3- 8	45	No Retaxation	0.51
12	Nickel (so Ni)	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL:0.01)
13	Arsenic as As	mg/l	IS 3025 (Part 2)	8.01	No Relaxation	The second second second second
14	Manganese as Mn	ngil	IS 3025 (Part 2)	0.1	A STATE OF S	BDL(DL;0.005)
15	Lead as Pb	ng/t	IS 3025 (Part 2)		0.3	BOL(DL:0:02)
16	Copper as Cy	ngd	16 3025 (Part 2)	0.01	No relexation	80L(DL 0.005)
iplinion T	September 1997 W.	THE PARTY OF THE	The second secon	and d	1.5	BDL(DL:0:02)

Optolog 1

Acceptatio limit & Permissible limit are as per IS 10000:2012

Statement of Cordonnity

NA.

END

Financial De

Signature.

Attragalety of grate

Mr. Arrayèe Saha, Ms. Piali Ganguly Designation : Sr Exe Chemist, Executive Chemist Authorized Signatory

Signature

Lab to their

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served part of partyboly for charmoni stratywin (floor - particulate samples) of Food, Western shall be reserved for 15 days from the date of security the Year Report, Protections semples(s) shall be reserved 2 days

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Wester, Corons (5th Floor), 148, A.J.C. Bosse Rossi Kohola - 700016, Vitera Berryol, India Lai. 191 33 47145000 / 20100007 Fax: 91 52 12050006 Ental Velogiminals com Watsile www.mittels.com

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Name & Address of Customer:

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Tata Steel Ltd (MGM) Joda West

Tet. | +91 7044038120 Email: udayanlab@mitrask.com



TC-6950



Doc No.: MSK/GEN/19/07

TESTING + INSPECTION

Sonn for Portal

ULR: TC-8950240000002068F

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/T8F0A7

08/02/2024

MSKNB/FD/2023-24/01/0418A3

27/01/2024

27/01/2024 - 29/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby costly that the following sample Drawn by us has been analyzed with the following results:

Group Description of sample	Water & Residue in Water
S. Delevis Marrillo	DRINKING WATER
Unique Identification of sample(if any) Date of sampling	NA NA
5. Place of sampling	24/01/2024
	BBL-4468 Bichakundi WTP Inlet
Environmental conditions during sampling & Fransport	(2 -6) deg C Cold chain maintained
Sampling Plan & Method used	IS 17614(P-25) 2022
I identification of the personnel performing sampling by MSK	Pranab Kr. Mahanta

Report No.: MSKPL/FD/2023-24/T8F0A7

Sample No.: MSKNB/FD/2023-24/01/041BA3

RESULT

Alcro Bio!	ogy		- Anna Company			
GI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	B
	Total Colform Bacteria	100ml	IS 15185	Not Detectable		7,000,000
2	E col	100ml	IS 15185	Not Detectable	Not Applicable	Detected
				1 1401 Detectable	Not Applicable	Detected

Opinion:

Acceptable limit & Permissible limit are as per IS:10500:2012

Statement of Conformity

END -

Period by

Signature

Air. Business Press Designation

Technical to praige

Adhironal Signary

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This Test Report what not be reproduced except in Eul, without the permanent of Mick S. K. Finniss (Lings).

First National strate on an expressional assignment, without the permanent of Mark S. K. Frenza I mayor.
The critical part of security for therefore invested (Non-periodicity sequel) front. (Mark) shall be related for 15-days from the date of source in the New Region. Permanent small his required 2 days from the date of source of the Test Region.
The reserved part of security for therefore invested (Not. Cold & Liquet Periodic small his required for 16 days or part of security from the date of security for the date of security for the date of security from the date of security for the date of security from th

ASP.O. BARBIL Ward No-6 Dist. Keonihar, Odisha - 758035 GIN: U51909W81956PTC020037

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E : barbl@mitrask.co.in W : www.mitrask.com



Report No. MSKGL/ED/202	3-24/004575	
	ANALYSIS REPORT OF DRINKING WATER	Date: 10.02.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	24.01.2024 (WINEST)	
Location	Bichakundi WTP Inlet ([WIMM)	

CHEMICAL ANALYSIS OF WATER AS PER 15: 10500 - 2012

SI. No.	The state of the s	Unite	Method		per IS: 10500- 2012	
1	Ammonical Nitrogen		1520/E/2TS	Desirable Limit	Permissible Limit	Results
2	Calcium (as Ca)	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	20.1
3	The state of the s	mg/l	APHA (24th Edition),3500 Ca B	75	200	50.1
	Chloride (as Cl.)	mg/l	APHA (24th Edition),4500 -Cl II	250	1000	13
4	Odour	Hazen	The state of the s	100000		- 8
5	Electrical conductivity	us/cm	APHA (24th Edition),2510B	Agrecable	Agrecable	Agreeable
6	Iron (as Fe)	100			744	82
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Fe B	0.3	No Relaxation	0.1
		mg/l	APRA (24th Edition), 3500 Mg B	30	100	
8	Phenolic Compound (asC6HSOH)	mg/l	APRA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	1.9
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 KB	700		CHI LIVE
10	Salinity	PSU	APMA (24th Edition), 2520B	0.000	700	<1.0
11	Sodium (as Na)	mg/l		377	-	0.044
12	Sulphate (as SO4)	1	APHA (24th Edition), 3500 Na B	100	-	3.0
13	Tashe	mg/l	APHA (24th Edition) 4500 SO42-E	200	400	<1.0
		None	IS 3025 (Part 8)-1983 Rfm: 2012_(0)	Agreeable	Agreeable	
14	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 23298	200	600	Agreeable
15	Total Dissolved Solids (as TDS)	mg/I	APIIA (24th Edition), 2540C	500	100000	28
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	11530	2000	50
17	Total Suspended Solid (as TSS)	mg/l		200	600	40
	Turbidity		APHA (24th Edition),2540D	>->	ST 200	2.9
		N.T.U	APHA (24th Edition), 2130B	1	5	1.5
3	pH value at 25 deg C	None	APHA 24th Edition, 2023,4500,31+B	6.S-8.5	No Relaxation	7.42

Checked by: (8)

For Mitra S. K. Private Limited

Authorized Signatory

H. O.: Strechi Centre (Str. Floor), 748, Acharya Jagadish Chandra Bose Road, Kokata - 700 016, West Bengal, India T. 81 33 22172249 / 4914 2000 / 2265 0006 / 2265 0007 F. 91 33 2265 0008 Einfo@mitrask.com W. www.mitrask.com

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Name & Address of Customer:

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Tel: +91 7044036120

Email: udayanlab@mitrask.com

Tota Steel Ltd (MGM)_Joda West



TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:



Dig No.: MSKIGENINGS

TESTING + INSPECTION

Scan for Portal

ULR: TC-695024000002068F

MSKPL/FD/2023-24/HLF0AV

08/02/2024

MSKNB/FD/2023-24/01/X218C8

27/01/2024

27/01/2024 - 08/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following earnpie Drawn by us has been analyzed with the following results.

Group Description of sample	Water & Residue in Water
Unique identification of sample(if any)	DRINKING WATER
4. Date of sampling	NA .
f. Place of sampling	24/01/2024
S. Emvironmental countries as	BBL 4469 Bichakundi WTP Cutlet
Environmental conditions during sampling & Transport Sampling Plan & Method used	(2 -5) deg C Cold chain maintained
E Manufile attors of the	IS:17614(P-5) 2022
8. Identification of the personnel performing sampling by MSK. Report No.: MSKPUFD/2023-24/H FDAY	Pranab Kr. Mahanta
Report No.: MSKPUFD/2023-24/HLF0AV	Barrier and the second

Sample Fo.: MSKNB/FD/2023-24/01/X218C8

RESULT

Chemical			NEGOE!			
St No.	Parameter	UOM	Method	Acceptable Limit	December of the second	
1	Codrolom as Cd	mail		The second second second second	Permissible Limit	Resort
2	Total Chromium as Cr	troit	IS 3025 (Part 2)	9.003	No Relexation	BOLIDL 0.00
3	Silver as Ag	mg/l	IS 3025 (Part 2)	3.05	No relaxation	BDL/DL:0.01
- 4	Silice as Sicco		IS 3025 (Part 2)	0.1	No Relexation	BOLIDE 0.000
5	Selenium as Se	mg/l	15 3025 (Part 35)	Not specified	Not specified	X21BOL(DL O
5	Mercury as Hg	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BOL(DL:0:00
7	Zinc as Zn	mg/l	1S 3025 (Part 48)	C.001	No relexation	BOL/OL 9 000
8		mg/l	IS 3025 (Part 2)	5	15	BOL(DL:0.02
0	Colour	Fezen	IS 3025 (Part 4)	5	15	80L(DL:1,0)
10	Cyanide as CN	ng/i	IS 3025 (Part 27) Sect	0.05	No relaxation	BDL/DL 0.02
	Fluoride as F	ng/l	IS 3025 (Part 60)	1.0	1.5	BOLIDE 0.2
111	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-	45	CONTRACTOR STATEMENT	1000
12	Nickel (as Ni)	noll	10 3006 (Ded 2)		No Relexation	0.54
13	Arsenic as As	rio!	18 3025 (Part 2)	£.02	No Relaxation	BOL(DL:0.01)
14	Manganese as Mn	ngl	1S 3025 (Part 2)	C.01	No Retaxation	BOL(DL:0.005
15	Lead as Pb	mgri	IS 3025 (Part 2)	0.1	0.3	BDL(DL:0.02)
16	Copper as Cu		85 3025 (Part 2)	0.01	No relaxation	BDL(DL:0.005)
ploloin :		mg/l	IS-3025 (Part 2) we as per IS-50800-2012	0.05	1.5	BDL(DL:0.02)

Statement of Conformity

MA.

END

Properties & day

Description

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St. Eds. Chartist, Econoline Chartist

Authorised Signatory

Designation

The results relate only to the tilents) federal.
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The reserved part of excepto(s) for Microscopycust analysis (Non- particular summers) Food, Seated Mater, Seated South and be calcurage by 15 days bean the date of lease of the Teal Report.

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Address of Laboratory ;

Building No. P. 48, Udayan Industrial Estate. 3, Pagladange Road, Kolkata 700015 West Bengal Tel: 1+91 7044036120 Email: udeyanlab@mitrask.com





Sean for Portal

ULR: TC-8950240000002000F

Doc No. MSK/GEN/19/07

feative warect

TC-6950

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Jode, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/HLF0AV

08/02/2024

MSKNB/F0/2023-24/01/X218C8

27/01/2024

27/01/2024 - 29/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Blological

We hereby certify that the solicising sample Drawn by us has been analyzed with the following results:

1. Group 2. Description of sample 3. Unique identification of sample(if any) 4. Date of sampling 6. Place of sampling 8. Environmental conditions during sampling & Transport 7. Sampling Plan & Method used 8. Identification of the personnal performing sampling by MSX.	Water & Residue in Water DRINKING WATER NA 24/01/2024 BSL-4469 Bichskund WTP Outet (2 -5) 9eg C Cold chain maintained IS 17614(P-25) 2022 Pranab Kr. Mahanta
---	---

Report No.: MSKPL/FD/2023-24/HLF0AV

Sample No.: MSKNB/FD/2023-24/01/X218C8

RESULT

Micro Biol	logy		REGOLI			
SI No.	Parameter	MOL	Mothod	1 3800		
1	Total Colforn Becteria	MOONS	14 14 15 15 15 15 15 15 15 15 15 15 15 15 15		Permissible Limit	Result
2	E cot	(000mi	IS 15185	Not Defectable	Not Applicable	Detected
			IS 151AS	Not Dytectable	Not Applicable	Not Detected

Opinion:

Acceptable limit & Permissible limit are as per IS 10500:2012

Statement of Conformity NA

- END -

Recipion By

will subject Standards

Mr. Guicento Proud

Demographics

Terresport to prompte

No Test Report aired on the interactioned except in Eut, without the permanence of Steen C.K. Process I tentact
for reserved part of exception), for phosphale exception (Month permanence of Steen C.K. Process I tentact
on the date of issue of the Test Report.

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On the date of issue of the Test Report.

on the date of seaso of the Leaf region.

We share you of semplacity for otherwise restyres clock, fluid & Legod Wester) shall be necessary. For 15 days as per CPCB qualitation is plus; I receive from the case of mass of the Taul Report, or received part of semplacity for Microbiological problems plans, parameter semplacity Fund, becamed Wester, Speed front by relating from the date of factor of the Taul Report. Stracts Cores (Str. Floor), 7-69, A.J.C. Sons Stract, Rollans - 700016, Wast Sanger, Incis. Tel.: 91-33-4014/3000 / 20000001 Fax: 91-30-20100408 Ernal: - Hoggressan, som Yesballe: Verex / Nétrals.com

AuP.O. BARBIL Ward No-6 Dist: Keonjhar, Odisha - 758035 CIN: U51909WB1956PTC023037



T +91 94370 09815.94370 09820,94370 75269

E : barbil@mitrask.co.in W : www.mitrask.com

	ANALYSIS REPORT OF DRINKING WATER	Date: 10.02.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	24.01.2024	
Location	Bichakundi WTP Out let (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

St. No. Test Parameters	Unite	Method	Norms as per IS: 10500- 2012			
1	Ammonical Nitrogen			Desirable Limit	Permissible Limit	Results
		mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<0.1
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	NO.1
3	Chloride (as Cl.)	mg/i	APHA (24th Edition),4500 -C18	250	1000	19
4	Odour	Hazen	3025 (Part-5)-1983;Rffm:2012	000		10
5	Electrical conductivity	us/cm		Agreeable	Agreeable	Agreeable
6	Iron (as Fe)	100000000000000000000000000000000000000	APRIA (24th Edition),2510B	-		103
2		mg/I	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	<0.05
	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	
8	Phenolic Compound (asC6HSQH)	mg/l	APHA (Z4th Edition), SS39C (Chloroform Extraction)	0.001	0.002	<0.001
9	Potassium (as K)	mg/l	APRA (24th Edition), 3500 K B		-	
10	Sallinity	PSU	APHA (24th Edition), 25208	***		<1.0
11	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	(75)	777	0.054
12	Sulphate (as SO4)	mg/l		-	1777	3.5
13	Taste	10000000	APRIA (24th Edition) 4500 SO42-E	200	400	<1.0
14	United	None	IS 3025 (Part 8)-1983 Rffm:2012_(0)	Agreeable	Agreeable	Agreeable
	Total Alkalinity (as CaCO3)	mg/I	APHA (24th Edition), 23208	200	600	
15	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 2540C	500	2000	32
16	Total Hardness (as CaCO3)	mg/l	APRA (24th Edition), 2340 C	200	260 (20)	62
17.	Total Suspended Solid (as TSS)	mg/l		200	600	52
8	Turbidity		APHA (24th Edition),2540D	l+++	and the second	<2.5
9		N.T.U	APHA (24th Edition), 2130B	1	5	<1.0
3	pH value at 25 deg C	None	APHA 24% Edition, 2023,4500,H+8	6.5-8.5	No Relaxation	7.82

Checked by:

For Mitra S. K. Private Limited

Authorized Signatory

H. O.; Shrachi Centre (5th Floor), 748, Acharya Jagadah Chandra Bose Road, Kolkata – 700 016, West Bengal, India T. 91 33 22172249 / 4014 3000 / 2265 0006 / 2265 0007 F. 91 33 2265 0008 Einfo@mitrask.com W. www.mitrask.com

Address of Laboratory :

Sulding No. P. 48, Udayan Industrial Estate, 3, Papadanga Road, Kalkata 700015 West Bengat

Tel.: +91 7044036120 Email: udayaNab@mitrask.com







Doc No.: MSK/GEN/19/07

ESTING HIMPICION

Scan for Portal

ULR: TC-695024000000645F

TEST REPORT

Name & Address of Customer:

Tota Steel Ltd (MGM)_Jode West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. : Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/G1ED6E

16/01/2024

MSKNB/FD/2023-24/01/M65LA3

02/01/2024

02/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique identification of sample(if any)	NA NA
4. Date of sampling	01/01/2024
5. Place of sampling	BBL_4355 Keth Hutting after H Querry down Stream
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain municipled
7. Sampling Plan & Method used	IS 17814 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Mukesh Haibury, Latin Kr Naili

Report No.: MSKPL/FD/2023-24/G1ED6E

Sample No.: MSKNB/FD/2023-24/01/M65LA3

RESULT

hemical				
SI No.	Parameter	HOR	Mattiod	Result
.1	Arsenic as As	mg/l	15 30 5 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	18-30/25 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	iS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	15 3025 (Part 4)	BDL(DL 1.0)
5	Copper as Cu	mgA	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL/DL/0.021
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BOL(OL:0.2)
8	Hexavalent Chromium (as C:+6)	mg/l	IS 3025 (Part 52) Sec2	80L(DL-0.01)
9	Lead as Po	mg/l-	IS 3025 (Part 2)	BOL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL 0 02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NC3-B	BOL(DL(0.4)
13	Zinc as Zn	mgri	IS 3025 (Part 2)	BDL/DL 0.02)

Opinion:

NA:

Statement of Conformity NA.

____ END -----

Reviewed By

Signature Name Atocupe Sale P. Gonzaly

Designation

Sr. Exe. Chemist, Executive Chemist

Authorized Signatory:

Signature

Name

Desgraday

Sydneyation Business

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagiadanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044038120

Email: udayanlab@mbrask.com







ULR: TC-6650240000000645F

One was separately with

1回音・36598合

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AbPo. - Joda, Dist. - Keonjhar, Odisha - 758034. India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MISKPL/FD/2023-24/G1ED6E

16/01/2024

MSKNB/FD/2023-24/01/M6SLA3

02/01/2024

02/01/2024 - 08/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique Identification of sample(if any)	NA NA
Date of sampling	01/01/2024
Flace of sampling	
L Environmental conditions during sampling & Transport	BISL-4355 Keth Hutting after H Quarty down Stream
Sampling Plan & Method used	(2 - 5) deg C Cold chain maintained IS 17614 (P-25) 2022
I Identification of the personnel performing sampling by MSK	Mukeah Haibun, Lain Kr Naik

Report No.: MSKPL/FD/2023-24/G1ED6E

Sample No.: MSXNB/FD/2023-24/01/MSSLA3

RESULT

Micro Biology				
SI No.	Parameter	UOM	Mathod	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & wests water, 24th edth, 18218	12

Opinion:

NA

Statement of Conformity

NA

END -

Physiosecol Dis-

Services 29-onlynation-

Mr. Schools Parce

Technologies in charge

Geogration

Technical in phone

The results relate only to the flurning belief.
This Test Report shall not be reproduced discopt in fail, without the permission of Mass S.K. Private Limited.
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This reserved part of samples(c) for sharmost analysis (Siot; Siot; & Liquit Visions) shall be retained for "10 shaps no year CPCS" pulsarine is (Arr) 1 moves from the date of source of the Test Report, This reserved part of eachysis() for Microbiological analysis (Non-- postability earnings(s) Food, Sealed Water, Sealed Source) shall be retained for 15 steps from the date of sauce of the Test Report.

Sirvanin Corder (Sin Floor), T48, A.J.C. Bose Road, Kolosia - 700016, Vited Bengel, India Tisk. - 91 33 4014(8000) / 29830007 Pair. - 91 33 23800006 Ernell: Info@mitraek.com Villobabe ; www.indows.com

AMP.O.:BARBIL Ward No-6 Dist: Keonjhar, Odisha - 758036 CIN: U51900WB1956PTC023027



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E : barbil@mtrask.co.in W : www.mitrask.com

	Date: 10.02.2024	
reame of the Chent	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	01.01.2024	
Location	Keth-Hutting after H- Quarry Down Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

iochemical Oxygen Demand (as OD) alcium (as CaCo3) hemical Oxygen Demand (COD) hloride (as CI) O	mg/l mg/l mg/l	APHA (24th Edition), 52108 APHA (24th Edition), 2340 C APHA (24th Edition), 52208	30 —	<2.0
hemical Oxygen Demand (CDD) hloride (as CI) O	mg/l	APRA (24th Edition), 2340 C APRA (24th Edition), 52208	330	<2.0
hloride (as CI) O	I KNEW S	APRA (24th Edition), 52200		
hloride (as CI) O	mg/I	The Control of the Co	F-120000	28
		APHA (24th Edition), 4500 -CLB	250	<4.0
potrical conductivity	mg/l	APHA 24th Edition, 2023 4500-O-C/G	100	7.3
	us/cm	APHA (24th Edition), 25103		6
on (as Fe)	mg/I			73
ignesium (as Mg)	- X	APHA (24th Edition), 3500 Fe 8	3	0.25
four	mg/l	APHA (24th Edition), 3500 Mg B	-	5.8
Marine Company	mg/l	APHA (24th Edition), 21501	Agreeable	Agreeabl
and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
enolic Compounds (as C8H5OH)	mg/l	APHA (24th Edition), \$530¢ (Chloroform Extraction)	1	<0.001
linity	PSU	APBA (24th Edition), 25208	100	
iphate (as SO4)	mg/l	APBA (24th Edition), 4500 SO42-E	200	0.04
tal Alkalinity	mg/l	APRA (24th Edition), 52108	600	<1.0
tal Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	122	26
tal Hardness (as CaCO3)	mg/l	TOTAL CONTROL OF THE PROPERTY		44
	mg/I	The second state of the second		38
ku washesinan opad (92 192)		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100000 (10000 m)	<2.5
ba		Hardness (as CaCO3) mg/l Suspended Solid (as TSS) mg/l	Hardness (as CaCO3) mg/l APRA (24th Edition), 2340 C I Suspended Solid (as TSS) mg/l APRA (24th Edition), 2540D	Hardness (as CaCO3) mg/l APHA (24th Edition), 2340 C Suspended Solid (as TSS) mg/l APHA (24th Edition), 25400 50/100

Checked by:-

For Mitra S. K. Private Limited
Authorized Signatory

TESTING CHARGOOM



TC-6950



Scan for Portal

ULR: TC-695024000000645F

TEST REPORT

Name & Address of Customer:

Tata Sheel Ltd.(MGW)_Joda West

Address of Laboratory:

West Bengal Tel.: +91.7044036120 Email: udayanlab@mitrask.com

Building No. P- 48, Udayan Industrial Estate, 3, Pegledanga Road, Kolkata 700015

AdPo - Joda, Dist. - Keonjhar, Odaha - 758034 Ingle

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance; Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/EZED6D

16/01/2024

MSKNB/FD/2023-24/01/W6YEB1

02/01/2024

02/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURPACE WATER
Unique identification of sample(if any)	NA NA
4. Date of sampling	01/01/2024
5. Place of sampling	RRL-4358 Keth Hutting before H Quarry Lip Stream
6. Environmental conditions during sampling & Transport	(2 - 5) dog C Cold chain maintained
7. Sampling Plan & Method used	
8. Identification of the personnel performing sampling by MSK	18 17614 (P-23) 2021 Material Color
which we are personnel personning sampling by MSK	Mukesh Halburu Lalin Kr Naik

Report No. : MSKPL/FD/2023-24/EZEDGD

Sample No.: MSKN8/FD/2023-24/01/W8YE81

RESULT

SI No.	Parameter	Test Total	The second second	
1		UOM	Mathod	Result
	Arsenic as As	1001	IS 3025 (Part 2)	The state of the s
2	Boron as B	mg/l	18 3025 (Part 2)	BOLIOL 0.006
3	Cadmium as Cd	ing/i	18 3025 (Part 2)	BOL(DL.0.26)
4	Colour	Haben	IS 3025 (Part 4)	BOL(DL:0.001)
5	Copper as Cu	mg/l	The Contract of the Contract o	8DL(DL 1.0)
6	Cyanide as CN		IS 3025 (Part 2)	BDL(DL 0.02)
7	Fluoride as F	mg/l	IS 3025 (Fart 27) Sec1	BDL(DL:0.02)
8	Hexavalent Chromium (as Cr+6)	mg/l	15 3025 (Part 60)	BOL(OL 0.2)
9	Lead as Pb	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
10	The state of the s	Ing/I	IS 3025 (Part 2)	BDL(DL:0 005)
31	Manganese as Mn	mg/l	IS 3025 (Part 2)	8DL(DL:0.02)
	Meroury as Hg	mg/l	IS 3025 (Part 48)	8DL/DL-0.0002
12	Nitrate as NO3	Ppm Ppm	APHA (24th EDITION) 4500-NOS- 8	BDL/DL:DA)
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BOL(DL 0.02)

Opinion:

NA.

Statement of Conformity

END -

Revenued By

Signature

Dentify-selten.

St. Eve Unested, Executive Change

Authorized Signatory

Commention

Docks: MEKSENYISKY







Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kokusta 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com



TC-6950



Soun for Portal

ULR: TC-895024000000846F

Name & Address of Customer :

Tata Steel Ltd (MSM)_Joda West

At/Po. - Joda, Dist. - Keorghar, Odaha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/EZED6D

16/01/2024

MSKNB/FD/2023-24/01/W8YEB1

02/01/2024

02/01/2024 - 08/01/2024 Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
Unique identification of sample(if any) Date of sampling	NA WATER
S. Place of sampling	01/01/2024
Environmental conditions during sampling & Transport	SBL-4356 Keth Hutting hefore H Quarry Up Stream
Sampling Plan & Method used	(2 - 5) deg C Cold chain maintained
kidentification of the personnel performing sampling by MSK	IS 17614 (P-25) 2022
A SALAN SALA	Mukeen Halburu Lalin Kr Naik

Report No.: MSKPL/FD/2023-24/EZED6D

Sample No.: MSKNB/FD/2023-24/01/MEYEB1

RESULT

Micro Biology				
\$1 No.	Parameter	Uosi	Method	60.2
4	Total coliform	MPNUSODNI	Standard methods for the examination of water & waste water, 24th eden.	Result 6.8
			92518	0.0

Opinion:

NA

Statement of Conformity

NA

END-

Destroyed in charge.

sire/and Squary

Mr. Sukanta Palui

Designation

Technical in charge

the results release only to the family) limited.

The Track Report in the internal amount in the permission of black 3.4, Principle Commission for the Permission of the P On the date of seaso of the Tree Report.
The reserved part of sample(s) for chartest engines (Son), Sonic & Lapud Washel shall be removed by 10 days as per CPCO guessians & (Vot. 1 shortly non the date of source of the Test Report, No reserved part of sample(s) for Microscopigical analysis (Non- parameter sample(s) Food, Sealed Washer, Season (Not), shall be reserved for 15 days from the date of source of the Test Report.

Streets Centre (Str. Pipor), Tell, A.J.C. Store Road, Robusts - 103014, West Street, India, For: Str. 32-401-00007, 200000007 Feb. Str. 200000008 Fore: Stringswissel.com Website: www.minspl.com

Page 1 of 1:

ANT O BARBIL Ward No-6 Dist. Keonihar, Odaha - 758055 CIN: U51909WB1958PTC023037

T : +91 94370 09815 94370 09620 94370 75269 E : barbigmitrask.co.in W : www.mitrask.com



Report No. MSKGL/ED/202	3-24/004378	Date: 10.02.2024
-Was and Was William	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	01.01.2024	
Location	Keth -Hutting before H-Quarry Up Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	1100	20
3	Chemical Oxygen Demand (COD)	nog/l	APHA (24th Edition), 52308	250	<4.0
4	Chloride (as Cl.)	mg/l	APHA (24th Edition), 4540-CLB	1-1	2
5	DO	mg/I	APHA 24th Edition, 2023 4500-O-C/G	225	6
6	Electrical conductivity	us/cm	APHA (24th Edmon), 2510B	144	68
7	Iron (as Fe)	mg/l	APHA (24th Edition), 35)0 Fe B	3	0.26
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	-	5.4
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
1.1	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208	200	0.039
13	Sulphate (as SO4.)	mg/l	APHA (24th Edition), 4500 SO42-E	.000	<1.0
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210B	-	26
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	THE CO.	40
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	36
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	<2.5
18	pH value at 23.7 deg C	None	APRIA 24th Edition, 2023 4500-H+B	\$.5-9.0	6.94

Checked by:-

For Mitra S. K. Private Limited **Authorized Signatory**

Address of Laboratory:

Bullding No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 Weel Bengal

Tel.:+91 7044036120 Email: udayanlab@mitrask.com







ULR: 1C-8950240000000643F

Dac No : MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM): Joda West

At/Po. - Jode, Dist. - Keonjhar, Odisha - 758034 India

Report No. : Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/HTED6U

16/01/2024

MSKNB/FD/2023-24/01/0J2BC3

02/01/2024

02/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	01/01/2024	
5. Place of sampling	BBL-4353 Pichlaghat Pump House down Stream	
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain muntained	
7, Sampling Plan & Method used	IS 17814 (P-23) 2021	
8. Identification of the personnel performing sampling by MSK	Mukesh Haiburu Lafe Kr. Nak	

Report No.: MSKPL#D/2023-24/HTED6U

Sample No.: MSKNB/FD/2023-24/01/01/2903

RESULT

homical				
SI No.	Parameter	UOM	Method	Result
1.	Arsenic as As.	mg/l	15 3425 (Part 2)	BDL(DL:0.005)
2	Boron as B	rog/l	底 加25 (Part 2)	BDL(DL:0.25)
-3	Cadiniom as Cd	mg/l	IS 3(25 (Pert 2)	BOL(DL:0.001)
4	Colour	Haizen	IS 3625 (Part 4)	BOL(DL:1.0)
5	Copper as Cu	mg/l	15 3025 (Part.2)	BOL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	80L(DL0.2)
- 8	Hexavolent Chromium (as. Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BIDL(DL:0.01)
9	Lead as Pb	rog/t	IS 3025 (Part.2)	BDL(DL:0.005)
10	Manganese as Mn	mg/t	IS 3025 (Part 2)	BOL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	rogn	APHA (24th EDITION) 4500-NO3- 8	BDL(DL:0/4)
13	Zino as Zn	mg/l	(S 3525 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity NA

____ END ____

Reviewed By

Signature

Signature

Dissignation

1

Str. Evo. Chemist, Everydyn Chemist

Autorized Squarey

Signatur

.

minnetine Lat

Lab in charge

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3. Paglastanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044038120

Email: udayanlab@mitrask.com







Scan for Portal

ULR: TC-695024000000543F

Don No.: MERCHANNEL

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

A&Po. - Joda, Dist. - Keonjhar, Odisha - 758034. India

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/HTED6U

16/01/2024

MSKNB/FD/2023-24/01/0J/2BC3

02/01/2024

02/01/2024 - 08/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	01/01/2024
5. Place of sampling	RBL-4353 Pichlaghat Pump House down Stream
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Pien & Method used	IS 17014 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Mukesh Halburu Lelin Kr Nais

Report No.: MSKPL/FD/2023-24/HTED6U

Sample No.: MSKNB/FD/2023-24/01/0J2BC3

RESULT

licro Biology				
81 No.	Parameter	NOM	Method	Result
3	Total colifore	MPN/100ml	Standard methods for the examination of water & wase water, 24th edin, 12218	41

Opinion:

NA

Statement of Conformity

END -

Decision of the

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Designation

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This Test Report shall not be reproduced except in NAI, without the personal of Mark E.K. Private Landaud.
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Head Office:

Shinors Cartin (Sr. Floor), 748. A.J.C. Sone Scott, Kolusta -700056, West Bonget, India 741 : 97 : 39 40140000 / 22650007 Fee: 191 53 200500008 Email: info@minost.com Visbalia: www.ti

AMP.O. BARBIL Ward No.6 Dist: Keonjhar, Odsha - 758035 CIN: U51900W61950PTC023027

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Report No. MSKGL/ED/202	3-24_004360	Date: 10.02.2024
Name of the Client	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED	
Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)		
Date of sampling	01.01.2024	
Location	Pichlaghat Khorbandg Down Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demanii (as BOD)	mg/l	APRA (24th Edition), 521#8	30	<2.0
2	Calcium (as CaCo3)	mg/l	APRIA (Z4th Edition), 234) C		24
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), \$220B	250	<4.0
4	Chloride (as Cl)	mg/l	APHA (Z4th Edition), 4500 -C) B		5.4
5	00	mg/l	APHA 24th Edition, 2023 4500-0-C/G	1000	6.0
6	Electrical conductivity	us/cm	APRA (24th Edition), 25168	***	72
7	fron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	0.37
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3504 Mg B	100	4.8
9	Odour	mg/l	APHA (24th Edition), 21588	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), \$5208	10	<5.0
11	Phenolic Compounds (as C6-15OH)	mg/I	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 2526H	- 35	0.04
13	Sulphate (as SO4)	mg/l	APISA (24th Edition), 4500 SQ42-E		×1.0
14	Total Alkalinity	mg/l	APHA (24th Edition), \$2108		20
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	277	44
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 234C C	22	40
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	2.8
18	pH value at 19.8 deg C	None	APHA 24th Edition, 2023 #500-B+8	5.5-9.0	7.31

Checked by:-

For Mitra S. K. Private Limited

Authorized Signatory

Doc No.: MSK/GEN/19/07





Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120 Email: udayanlab@mitrask.com





Scan for Portal

ULR: TC-8950240000000644F

TEST REPORT

Name & Address of Customer:

Teta Steel Ltd.(MGM)_Joda West

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/LEED6N

16/01/2024

MSKNB/F0/2023-24/01/LEC89G

02/01/2024

02/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of eample	SURFACE WATER
3. Unique identification of sample(if any)	NA NA
4. Date of sampling	01/01/2024
5. Place of sampling	ISSL-4354 Pichlaghat Pump Rouse Up Stream
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Mukesh Halburu Lelin Kr Naik

Report No.: MSKPL/FD/2023-24/LEED6N

Sample No.: MSKNB/F0/2023-24/01/LEC89G

RESULT

homical				
SI No.	Parameter	MON	Liethod	Résult
1	Arsenic as As	mgil	IIS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3055 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	8S 3005 (Part 2)	BOL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/l	18 3025 (Part 2)	BOU(DL-0.02)
8	Oyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL-0.02)
7	Flyoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalant Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BOL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BOL(OL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BOL(DL 0.02)
11	Mercury as Hg	mp1	IS 3025 (Part 48)	BOL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL(DL 0.4)
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BOL(DL 0.02)

Opinion:

NA

Statement of Conformity NA

END -

Reviewed By

Signature

Designation

Atrage Salut Gryny Mr. Atrapos Baton, Mr. Piali Georgery

Sr. Exe Chemist, Executive Chemist

Authorized Signatory:

figneture

11-1

Dominion

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Disc No. MISNOCKIN/LINE





Building No. P- 48, Udayan Industrial Estate, 3, Pagledenga Road, Kolkata 700015 West Bergal

Tel: +91 7044036120

Email: udøyanlab@mitrask.com





ULP: TC-895024000000844F

TEST REPORT Name & Address of Customer:

Tata Steel Ltd.(MGM) Joda West

AMPo. - Joda, Dist. - Keonjhar, Odisha - 758034. India

Report No.: Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/LEED6N

15/01/2024

MSKN8/PD/2023-24/01/LEG89G

02/01/2024

02/01/2024 - 08/01/2024

Permanent Facility

3000158017/055, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
. Unique Identification of sample(if any)	NA
4. Date of sampling	01/01/2024
5. Place of sampling	RBL-4354 Pichlaghat Pump House Up Stream
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Mykesh Halburu Lalin Kr. Nalik

Report No.: MSKPL/FD/2023-24/LEEDSN

Sample No.: MSKN8/FD/2023/24/D1/LEC89G

RESULT

Micro Biology				
SI No.	Paramoter	UOM	Merhod	Result
9 %	Total colform	MPN/100m	Standard methods for the experimation of water & wassewater, 24th edbn, 92/18	9.3

Opinion:

NA. MA.

Statement of Conformity

END -

Mr. Sukonia Potat

Technical Inchiese

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This find Report shall not be reproduced except in Ed. without the poststation of large \$ K. Private Limited.
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Structs Cartry (Str Floor), Felt. A.-J. C. Bose Polesi, Kolhess. - 700016, Vites Burgel, India. 161 20 40142001 (200000) Fee: 51 33 2000000 Email: inloganitrask sion Viscosta I wave mitrask soon

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W: www.mitrask.com

ANALYSIS REPORT OF SURFACE WATER		Date: 10.02,2024
Name of the Client Name of the Mines	M/s. TATA STEEL LIMITED	
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 01.01.2024	
Location	Pichlaghat Pump House Up Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters Biochemical Oxygen Demand (as	Unite	Method	Max. Tolerance Limit as per CPCB	Results
-	BOD)	mg/l	APHA (24th Edition), 52138	30	<2.0
2	Calcium (as CaCo3)	mg/i	APNA (24th Edition), 2340 C		
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 5220B	050	24
4	Chloride (as GI)	mg/l	APHA (24th Edition), 4504 -CI B	250	<4.0
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G	-	5.4
6	Electrical conductivity	us/cm	APHA (24th Edition), 25138		5.8 70
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	0.21
8	Маgnesium (as Mg)	mg/l	APRA (24th Edition), 3500 Mg B	7	
9	Odour	mg/l	APMA (24th Edition), 21508	Agrecable	5.2
10	Oil and Grease	mg/l	APHA (24th Edition), SS208	10	Agreeabl
11	Phenolic Compounds (as C6-ISOH)	mg/l	APHA (24th Edition), 553aC	- 10	<5.0
12	Salinity	PSII	(Chloroform Extraction) APHA (24th Edition), 25268	1	<0.001
13	Sulphate (as SO4)	mg/I			0.04
14	Total Alkalinity	- V. Ser. V. Ser.	APHA (24th Edition), 4500 S042-E		<1.0
15	Total Dissolved Solids (as TD3)	mg/l	APHA (24th Edition), 5210£	244	28
16	Total Hardness (as CaCO3)	10000	APRA (24th Edition), 254th		42
7	The state of the s	mg/l	APRA (24th Edition), 234C C	-	36
8	Total Suspended Solid (as TSS)	eng/I	APRA (24th Edition) 25400	50/100	2.7
	pH value at 20.5 deg C	None	APRA 24th Edition, 2023 4500-H+B	5.5-9.0	

Checked by:-

For Mitra S. K. Private Limited - ERU-**Authorized Signatory**

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120 Email: udayanlab@mitrask.com





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ULR: TC-695024000001742F

Doc No. MONOCOPYTARD

TEST REPORT

Name & Address of Customer:

Tota Steel Ltd.(MGM)_Joda West

AtiPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. : Date :

Sample No. :

sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/WHEDBL

05/02/2024

MSKNB/FD/2023-24/01/4N1456

24/01/2024

24/01/2024 - 05/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(If any)	NA .
4. Date of sampling	22/51/2024
5. Place of sampling	Sona River Near Mahanadi Guest house
6. Environmental conditions during sampling 8 Transport	(2 - 5) deg C Cold chain mantained
7. Sampling Plan & Method used	JS 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das, Pranab Sathy

Report No.: MSKPL/FD/2023-24/WHED6L

Sample No.: MSKNB/FD/2023-24/01/4N1466

RESULT

hemical				
SI No.	Parameter	UOM	ifiethod	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	ngf	15 3625 (Part 2)	BDL(DL:0.25)
3	Codmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazon	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	rsg/l	IS 3025 (Part 2)	8DL(DL:0.02)
.6	Cyanide as CN	Ngen.	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/t	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(0E:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/t	IS 3005 (Part 48)	SDL(DL 0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	BOL(DL:0.4)
13	Zinc se Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA.

Statement of Conformity

END -

Parameter Dy

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Name

Designation

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Doe No.: MSK/GEN/19/07





Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Beogal

Name & Address of Customer:

Al/Po. - Joda, Dist. - Keonihar, Odisha - 758034 India

Tata Steel Ltd (MGM) Joda West

Tell: +95 7044036120 Email: udayanleb@mitrask.com







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ULR: TC-695024000001742F

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/WHED6L

05/02/2024

MSKNB/FD/2023-24/01/4N1466

24/01/2024

24/01/2024 - 29/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Siological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(If any)	NA NA
4. Date of sampling	22/01/2024
5. Place of sampling	Sona River Near Mahanadi Guest house
5. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-26) 2022
Identification of the personnel performing sampling by MSX.	Dhambrucher Das Pranab Sighy

Report No.: MSKPL/FD/2023-24/WHEDBL

Sample No.: MSKN8/FD/2023-24/01/4N1466

RESULT

licro Biology				
St No.	Parameter	NON	Method	Result
t	Total collions	MPN/100m/	Standard medicus for the examination of water & water, 24th edin, 97218	220

Opinion:

MA

Statement of Conformity

MA

END:

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Technical laterage

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Designation

Technical Incharge

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The reservoid part of semplacy for the female analysis (Non-perioheline conglicks) Flood, Wester, shall be relatived for 15 days from the date of linear of the Test Report, Perioheline semplacy, shall be because 2 days

The reserved part of sample(s) for chemical energies (Sox, Soxid & Liquid Vermic) and by required to 15 days to per chirch proteins is (AU) 1 more), from the dolp of course of the Test Report.
The reserved part of complete) for Microcological energies (Non-- parameter sample(s) Food, Sessed Wasse, Sessed Nood) shall be retained for 15-days from the data of source of the Test Report.

Head Office:

Shrachi Carsin (Sin Floor), 740, A.J.C. Bone Roan, Kobalin - 700016, Vilvel Bergal, India Tal. 91 30-40140000 / 2360000 Par. 91 33 2360000 Email: info@mitrest.com Websito: www.nolcomi.com

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T : +91 94370 09815 94370 09820 94370 75289

E : barbil@mtrask.co.in W : www.mtrask.com



Report No. MSKGL/ED/202	3-24/004639	Date: 10.02,2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	22.01.2024	
Location	Sona River Near Mahanadi Guest House (JWIMM)	The state of the s

CHEMICAL ANALYSIS OF WATER

Sl. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/1	APHA (24th Edition), S2108	30	8.2
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	7.00	18
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), \$220B	250	28
4	Chloride (as Ct)	mg/l	APHA (24th Edition), 4540 -Cl B	250	8
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G	(302)	6
6	Electrical conductivity	us/cm	APHA (24th Edition), 25108	200	135
7	Iron (as Fe)	mg/l	APRA (24th Edition), 3530 Fe B	-3	7000
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg II	225	1.2
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	6.7
10	Oil and Grease	mg/l	APSIA (24th Edition), 55208	10	Agreeable
11	Phenolic Compounds (as C5H5OH)	mg/l	APIIA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 2520B		0.070
13	Sulphate (as SO4)	mg/l	APISA (24th Edition), 4580 SQ42-E		<1.0
1.4	Total Alkalinity	mg/l	APHA (24th Edition), 5210B	700	177
15	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	-	64
16	Total Hardness (as CaCO3)	mg/l	APRIA (24th Edition), 2340 C	200	82
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400		72
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	50/100	31
	harring or your neg r	Marie	At the Latte Edition, 2023, 45(6)-11-11	5.5-9.0	7.49

Checked by:-

For Mitra S. K. Private Limited

Authorized Signatory





Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.:+91 7044036120 Email:udayaniab@mtrask.com





Scien for Portal

ULR: TC-895024000001743F

Name & Address of Customer:

Tata Steel Ltd.(MGM), Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Date:

Sample No.:

Report No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FDI2023-24/07E06N

05/02/2024

MSKNB/FD/2023-24/01/90/14/49

24/01/2024

24/01/2024 - 05/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA NA
22/01/2024
Sona River before confluence with Baltarani River
(2 - 5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Dhambrudhar Des Pranab Sethy

Report No.: MSKPL/FD/2023-24/D7ED6N

Sample No.: MSKNB/FD/2023-24/01/9G1449

RESULT

Chomical				
SI No.	Parameter	UOM	M-thod	Result
1	Arsenic as As	ng/i	IS 3035 (Part 2)	BDL(DL:0.005)
2	Boron as B	rigit.	15 3055 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mgfl	18 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL/DL-1.0)
5	Copper as Cu	mgd	IS 3025 (Part 2)	BDL(DL:0:02)
6	Cyanide as CN	mg/f	IS 3025 (Part 27) Sec 1	80L(DL:0.02)
7	Fluoride as F	mg/l	13 3025 (Part 60)	80L(DL:0.2)
8	Hexavalent Chromium (as Cr>8)	mg/l	IS 3025 (Fart 52) Sec2	BOL(OL:0.01)
9	Lead as Pb	mgrl	IS 3025 (Part 2)	BDL(DL 0.005)
10	Manganese as Mo	mg/l	IS 3025 (Part 2)	BDU(DL.0.02)
.11	Mercury as Hg	mg/t	IS 3025 (Part 48)	80L(DL-0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-8	0.62
13	Zino es Zn	mg/l	IS 3025 (Part 2)	BDL/DL:0.021

Opinion:

NA

Statement of Conformity NA

____ END ____

Reviewed By

Signeture

Atrayer Salm P Gayory

Designation

Sr. Exe. Cheroist, Executive Chemist.

Althread Signatory

begreiter

Automa .

Common

Car in charge

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Sengal

Name & Address of Customer :

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM) Joda West.

Tel.: +91 7044036120 Email: udayanlab@mitrask.com







Scan for Pertal

ULR: TC-695024000001743F

Shir No.: MEDICOENTAGE

TESTING > (NSPECTION

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/D7ED6N

05/02/2024

MSKN8/FD/2023-24/01/9G1449

24/01/2024

24/01/2024 - 29/01/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA
4. Date of sampling	22/01/2024
5. Place of sampling	Sona River before confluence with Staterari River
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	18 17614 (P-26) 2022
I. Identification of the personnel performing sampling by MSK	Dhambrudhar Das, Pranab Serby

Report No.: MSKPL/FD/2023-24/D7ED6N

Sample No.: MSKNIM/D/2023-24/01/901449

RESULT

Alicro Biology				
SI No.	Parameter	UOM	Mathod	Result
1.0	Total collices	MPN/100mi	Standard methods for the examination of water & waste water, 24th edth, 92218	540

Opinion:

NA

Statement of Conformity

NA

END

Description

Trickstate in charge.

Authorities Signatury

Technical in sharps

This remails nature only to the form(s) testion.

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The reserved part of semple(s) for chemical analysis (Hors - periodical energy); if and, Waller's shall be reserved for 13 years from the date of leases? First Report, Protectuate assignment 2 steps.

The reserved part of sample(s) for charmood produces (Soid, Solid & Logar Visuary) stup be reserved by 1.6 above to previous & (Au) 1 recent from the case of once of one Test Report. The reserved part of sample(s) for electrocological environ (Not - pertending sample(s) Food, Sealed Water, Sealed flood; shall be reserved for 37 anys from the date of nature of the Test Report.

Head Office:

Stream Center (10), Floor). Tell: A.J.C. Sune Plant, Notions - P00016, West Bengal, India. Tel.: 91: 50: 4014-2000 / 20050007 Fax: 91: 53: 20000008.

Ereat: Info@mitrate.com Westalfe: veve mitrate.com

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Report No. MSKGL/ED/20	23-24/004640 Date: 10.02.2024
	ANALYSIS REPORT OF SURFACE WATER
Name of the Client	M/s. TATA STEEL LIMITED
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)
Date of sampling	22.01.2024
Location	Sona River Kandra Village before confluence with Baitarni River (IWIMM)

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APISA (26th Edition), 52108	30	5.6
7	Calcium (as CaCo3)	mg/i	APRA (24th Edition), 2340 C	_	16
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), \$2208	250	20
4	Chloride (as Cl.)	mg/l	APBA (24th Edition), 4500 -CI B		10
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G	2.50	6.1
6.	Electrical conductivity	us/cm	APHA (24th Edition), 25:08	44	150
7	Iron (as Fe)	mg/l	APRIA (24th Edition), 3500 Fe B	3	0.32
8	Magnesium (as Mg)	mg/l	APRA (24th Edition), 3500 Mg B	125	5.8
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeabl
10	Oil and Grease	mg/l	APItA (24th Edition), 55238	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APRA (24th Edition), 5538C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APRA (24th Edition), 2520fl	-	0.077
13	Sulphate (as SO4)	tog/l	APHA (24th Edition), 4500 SO42-E	1999	<1.0
14	Total Alkalinity	mg/l	APHA [24th Edition], 5210B	Amp .	56
15	Total Dissolved Solids (as TDS)	mg/l	APRA (24th Edition), 254ec	+++	88
16:	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	+++	64
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25460	50/100	3.2
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4S00-H+B	5.5-9.0	7.32

Checked by:-

For Mitra S. K. Private Limited
Authorized Signatory

DOCKE: MEROSENTINGS









Some for Portal

ULR: TC-695024000001744F

TEST REPORT Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

Address of Laboratory:

West Bengal

Tel: +91 7044036120 Email: udayanlab@mitrask.com

Building No. P. 45, Udayan Industrial Estate, 3. Pagladange Road, Kolkata 200015

AUPo. - Jode, Dist. - Keonjhar, Odishe - 758034 India

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPLFD/2023-240PED6N

06/02/2024

MSKNB/FD/2023-24/01/WE1456

24/01/2024

24/01/2024 - 05/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURPACE WATER
Unique Identification of sample(if any)	NA NA
4. Date of sampling	22/01/2024
5. Place of sampling	Sona River after confluence with Baltaram River
Environmental conditions during sampling & Transport	(2 - 5) dog C Cold chain maintained
7. Sampling Plan & Method used	13 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das Pranab Serby

Report No.: MSKPL/FD/2023-24/0PED6N

Sample No.: MSKN8/FD/2023-24/01/WE1456

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3095 (Part 2)	
2	Boron as B	mg/t	15 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	Non	IS 3025 (Part 2)	BDL(DL:0.25)
4	Colour	Hazeo	IS 3025 (Part 4)	BDL(DL:0.001)
5	Copper as Co	mg/l	IS 3025 (Part 2)	BOL(DL-1.0)
6	Cyanide as GN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/t	IS 3025 (Part 60)	BOL(DC.0.02)
	Hexavalent Chromium (as Cr+6)	mg/l	18 3025 (Fart 52) Sec2	0.25
7. 學 7	Lead as Pb	mg/l	IS 3025 (Part 2)	BOL(DL:0.01)
10	Manganese as Mn	mg/li	IS 3025 (Part 2)	BDL(DL 0.005)
11	Mercury as Hg	rng/l	IS 3025 (Part 48)	SDL(DL 0.02)
12	Nitrate as NO3	mgA	APEA (24th EDITION) 4500-NO3- B	BDL(DL:0.0002)
13	Zinc as Zo	Ilgm	IS 3021 (Part 2)	BOL(DL:0.4)

Opinion :

NA.

Statement of Conformity NA:

END -

Reviewed By:

Signiture

Atrayee Sava - Ms Atrayes Sano, Ms. Pieli Ganguly

- Sr. Exu. Chemist, Executive Chemist Designation

Authorized Signatury

Direct tellion

Lab in charge

Doc No. MSK/GEN/19/07





Building No. P- 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91.7044038120 Email: udayanlab@mitrask.com





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ULR: TC-695024000001744F

TEST REPORT

Name & Address of Customer: Tata Steel Ltd.(MGM). Joda West

AVPo. - Joda, Dist. - Keonjhar, Odishe - 758034 India

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date : Discipline:

MSKPLFD/2023-24/0PED6N

05/02/2024

MSKNB/FD/2023-24/01/WE1456

24/01/2024

24/01/2024 - 29/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique identification of sample(if any)	NO TOTAL CONTRACTOR OF THE PARTY OF THE PART
4. Date of sampling	22/01/2024
5. Place of sampling	Sona River after confluence with Beltarani River
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2622
6. Identification of the personnel performing sampling by MSK	Dhambrudhar Das Pranab Sethy
	The state of the s

MSKPL/FD/2023-24/0PED6N Report No. :

Sample No.: MSKNB/FD/2023-24/01/WE1456

RESULT

Aicro Biology				
SI No.	Parameter	KRÓKI	Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & water water, 24th edin, \$221B	170

Opinion:

NA MA

Statement of Conformity

END

Navarage Sy.

Designation

Mr. Sukanta Palu Technical in charge Authorized Eigenbory

Tephelical to glyangar

The results relate only to the familian (a) wested.

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The reserved part of sample(s) for chemical analysis (Non - periorishis sample(s) for chemical analysis (Non - periorishis sample(s) for the first Report. Periorishis sample(s) from the date of usus of the Test Report.

The measured part of bampla(s) for chemical analysis (Soil, Solid & Lieuer Washin) shad be assumed for 15 days as your (PCB guideline it (Ap) 5 words from the date of sacret of the Test Report.
The measured part of bampla(s) for Microbiological analysis (Not. - personal sempla(s) Food, Seeted Waster, Seeted Report, South be reterned for 15 days from the date of security of the Test Report.

Enrock Centre (Sin Floor), 749, A.J.C. Sono Phod, Kobate - 700016, West Bengel, India. No. : 91.30.40143000 / 23950000 Fee: 91.30.5000000 Head Office: firmel: Info@minask.com Website: www.intreat.com



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T : +91 94370 09615,94370 09820,94370 75269 E : barb@mitrask.co.in

W; www.mitrask.com

Report No. MSKGL/ED/2023-24,004641		Date: 10.02.2024	
	ANALYSIS REPORT OF SURFACE WATER		
Name of the Client	M/s. TATA STEEL LIMITED		
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)		
Date of sampling	22.01.2024		
Location	Sona River after confluence with Balta ni River (JWIM	M)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APBA (24th Edition), S2138	30	7
20	Calcium (as CaCo3)	mg/t	APHA (24th Edition), 2340 C	7-80	14
3	Chemical Oxygen Demand (COD)	rog/l	APHA (24th Edition), 522)8	250	24
4	Chloride (as CI)	mg/l	APRA (24th Edition), 4509 -CI B	275	14
5	DO	mg/l	APEA 24th Edition, 2023 4500-O-C/G	55%	6.4
6:	Electrical conductivity	us/cm	APHA (24th Edition), 25108	125	112
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	0.61
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	777	3.8
9	Odour	mg/l	APHA (24th Edition), 21508	Agreeable	Agreeable
10	Oil and Grease	mg/l	APBA (24th Edition), 55238	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), S520C (Chloroform Extraction)	1.	< 0.001
12	Salinity	PSU	APHA (24th Edition), 2510B		0.058
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	rise :	<1.0
14	Total Alkalinity	mg/l	APHA (24th Edition), S2108	()	2.8
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	1227	68
16	Total Hardness (as CaCO3]	mg/l	APHA (24th Edition), 23+0 C		52
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	7.9
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	S.S-9.0	7.12

Checked by:-

For Mitra S. K. Private Limited <50-**Authorized Signatory**





Building No. P. 48, Udayan Industrial Estate. 3. Pagladanga Road, Kokata 700015 West Bengal

Tel.: +91.7044036120:

Email: odayanlab@mitrask.com





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ULR: TC-895024000000647F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

AliPo. - Joda. Dist. - Keonjhar, Odisha - 758034 India

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MISKPL/FD/2023-24/CTEFOL

16/01/2024

MSKNB/FD/2023-24/01/YA2398

02/01/2024

02/01/2024 - 16/01/2024

Petranent Facility

3000156017/066, Date - 16/09/2023

Chemical

We hereby cartify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
GROUND WATER
NA .
01/01/2024
3BL-4357 Bichakundi Sorewell Ng-1
(2.5) deg C Cold chain maintained
(S: 13969 (P-11) 2018
Lalin Kr Navek

Report No.: MSKPL/FD/2023-24/CTEF0L

Sample No.: MSKNB/FD/2023-24/01/YA239S

RESULT

Chemical				
SI No.	Parameter	LIOM	Meihod	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	right	is 3825 (Part 2)	BDL(DL:0.001)
3	Copper as Cu	mgit	IS 3025 (Part 2)	BOL/DL-6.023
5	Hexavalent Chromium (as Crv6)	ingif	IS 3025 (Part 52) Sec2	BOL(OL 0.01)
	iron as Fe	mg/l	IS 3025 (Part 2)	BDL(DL:0.05)
6	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
7	Manganese as Mn	mg/l	15 3025 (Part 2)	BDL(DL-9.02)
8	Mercury as Hg	rogil	IS 3025 Part 48)	BDL/DL-0.0002)
9	Selenium as Se	mg/l	IS 3025 (Part 2)	SDL(DL:0.006)
10	Zinc as Zn	mg/l	1S 3025 (Part 2)	BOL/DL:0.025

Opinion:

NA.

Statement of Conformity NA.

END

Reviewed By:

Signature

Denning to

Authorized Signatory

Figure

Name

Lab in charge

AIP.O. BARBIL Ward No-6 Dist. Keonjhar, Odisha - 758005 CIN: U51909WB1956PTC023037

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Report No. MSKGL/ED/202	3-24/004431	Date: 10.02.2024
ANAI		
Name of the Client	YSIS REPORT OF GROUND WATER TRACE METAL M/s. TATA STEEL LIMITED	
Name of the Mines	Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	01.01.2024	
Location	Bichakundi Borewell No -1 Near Community Toilet (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL No.	Test Parameters	Unite	Method		Norms as per IS: 10500- 2012	
		10000	Desirable Limit	Permissible Limit	Results	
1	Ammonical Nitrogen	mg/i	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<0.1
2.	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	3.2
3	Chloride (as Cl)	mg/l	APHA (24th Edition),4500 -CLB	250	1000	
4	Electrical conductivity	us/cm	APHA (24th Edition),25108		27.00	10.5
5	Iron (as Fe)	mg/l	APRA (24th Edition),3500 Fe B	0.3	No Relaxation	<0.05
6	Odour	None	3025 (Part-5)-1983;Rifm-2012	Agreeable	Agreeable	<0.05 Agrecable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	1.9
8	pH value at 23 deg C	None	APHA 24th Edition, 2023,4500,H+3	6.5-8.5	No Relaxation	5.56
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 K B			100000
10:	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), \$530C (Chloroform Extraction)	0.001	0.002	<0.001
11	Salinity	PSU	APHA (24th Edition), 25208			0.029
12	Sodium (as Na)	mg/I	APHA (24th Edition), 3500 Na B	- 22		
13	Sulphate (as SO4)	mg/l	APRIA (24th Edition) 4500 S042-E	200	400	3.4
14	Taste	None	IS 3025 (Part 8)-1983 Rffm:2012_(C)	Agreeable	Agrecable	1.2
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 2320H	200	600	Agreeable
16	Total Dissolved Solids (as TDS)	mg/l	APIIA (24th Edition), 2540C	500	2000	8
17	Total Hardness (as CaCO3)	mg/l	APRA (24th Edition), 2340 C	200	600	28
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition) 25400	200		16
19	Turbidity	N.T.U	APHA (24th Edition), 21308		-	<2.5
333	(301) (300)	370.000	APRIA (2406 Edicion), 21,508	1	5	<1.0

Checked by:-

For Mitra S. K. Private Limited

Authorized Signatory

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Read, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

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Email udayanlab@mitrask.com

Tata Steel Ltd.(MGM), Joda West







Doc MSK/GEN/19/07

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ULR: TC-695024000001068F

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/510E6C

24/01/2024

MSKNB/ED/2023-24/12/M053EX

28/12/2023

28/12/2023 - 19/01/2024

Permanent Facility

3000156017/055, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

Pollution & Environment
Waste Water
NA.
27/12/2023
BBL-4349 Bamebari STP Inlet
(2 - 5) deg C Cold chain maintained.
APHA 23rd edition,2017
Pratik Kr. Mantri & Akash Kr Setty
N/A

Report No.:

MSKPL/ED/2023-24/510E6C

Sample No. :

MSKNB/ED/2023-24/12/M053EX

RESULT

SI No.	Parameter	UOM	Method	Result
1	Arsenic as (As)	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.005)
2	Boron (as B)	mg/l	APHA (24th Edition) ,4500 - B C	BDL(DL:0.5)
3	Cadmium as Cd	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.05)
4	Colour	Hazen	APHA (24th Edition), 2120B	10
5	Copper (as Cu)	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.05)
6	Cyanide (as CN)	mg/l	APHA (24th Edition), 4500 CN - F	BDL(DL:0.02)
7	Fluoride (as F)	mg/l	APHA (24th Edition), 4500 F- C/D	0.19
8	Hexavalent Chromium (as Cr+6)	mg/l	APHA (24th Edition), 3500 Cr B	BDL(DL:0.05)
9	Lead (as Pb)	mg/l	APHA (24th Edition), 3120 B	BDL(DL.0.005)
10	Manganese (as Mn)	mg/l	APHA (24th Edition), 3120 B	1.41
11	Mercury (as Hg)	mg/l	APHA (24th Edition) 3112 B	BDL(DL:0.001)
12:	Nitrate as NO3	mg/l	APHA (24th Edition), 4500 NO3-E	BDL(DL:0.1)
13	Zinc (as Zn)	mg/l	APHA (24th Edition), 3120 B	0.20

Opinion:

NA

Statement of Conformity NA

END

Reviewed By

Signature

Name

Scennith Bardinari Dr. Devottom Ban

Technical la charge Designation

Authorized Signifor

E-greature

Maron.

M/ Somnatt Bardhan Dr Devottam Bar

Description

Technical in charge

The results relate only to the item(s) tested

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The reserved part of sample(s) for chemical analysis (Non - perefisable sample(s) Food, Water) shall be retained for 15 days from the date of Issue of the Test Report. Pershable sample(s) shall be retained 2 days from the date of Issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Soil, Soild & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Shrady Centre (5th Floor), 745, A.J.C. Bose Road, Kokata - 700016, West Bengal, India. Tel., 91 33 40143000 / 22550007 Fax: 91 33 22550000 Email: pfo@mitrass.com Website: www.mdrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM) Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000001068F

Doc No MSK/GEN/19/07

TESTING . NSPECTION

TEST REPORT

Report No. :

24/01/2024 Date:

Sample No.:

MSKNB/ED/2023-24/12/M053EX

MSKPL/ED/2023-24/510E6C

Date of receipt of sample:

28/12/2023

Date(s) of performance: Location of performance of 28/12/2023 - 02/01/2024 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Pollution & Environment
2. Description of sample	Wasle Water
3. Unique Identification of sample(if any)	NA .
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4349 Barnebari STP Inlet
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	APHA 23rd edition,2017
8. Identification of the personnel performing sampling by MSK	Pratik Kr. Mantri & Akash Kr Setty
9. Field Equipments Used	N/A

Report No.: MSKPL/ED/2023-24/510E6C

Sample No.: MSKNB/ED/2023-24/12/M053EX

RESULT

Micro Biology						
SI No.	Parameter	UOM	Method	Result		
4	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	11000		

Opinion:

NA NA

Statement of Conformity

END

Reviewed By

Signature

Designation

Mi Multryge Chakraborty

Executive Microbiologist

Authorized Signatory

Бідпапідн

Marrie

Mr. Mailreyon Chalcoperty

Description

Executive Microbiologist

The results relate only to the fem(s) leaded.

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) while be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report. The reserved part of sample(s) for Microbiological analysis (Non – penalsible sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

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Address of Laboratory:

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Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com







Dec MSR/GEN/19/07

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ULR: TC-695024000001067F

TEST REPORT

Report No.:

24/01/2024 Date:

Sample No.:

MSKNB/ED/2023-24/12/E153FT

Date of receipt of sample:

28/12/2023

Date(s) of performance: Location of performance of 28/12/2023 - 19/01/2024 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

MSKPL/ED/2023-24/J10E6N

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Pollution & Environment
2. Description of sample	Waste Water
3. Unique Identification of sample(if any)	NA .
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4349 Barnebari Oil & water Separation Near Garage
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained.
7. Sampling Plan & Method used	APHA 23rd edition,2017
8. Identification of the personnel performing sampling by MSK	Pratik Kr. Mantri & Akash Kr Setty
9. Field Equipments Used	N/A

Report No. :

MSKPL/ED/2023-24/J10E6N

Sample No. :

MSKNB/ED/2023-24/12/E153FT

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as (As)	mg/I	APHA (24th Edition), 3120 B	BDL(DL:0.005)
2	Boron (as B)	rng/l	APHA (24th Edition) ,4500 - B.C	BDL(DL:0.5)
3	Cadmium as Cd	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.05)
4	Colour	Hazen	APHA (24th Edition), 2120B	BDL(DL:5.0)
5	Copper (as Cu)	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.05)
6	Cyanide (as CN)	mg/l	APHA (24th Edition), 4500 CN - F	BDL(DL 0.02)
7	Fluoride (as F)	mg/l	APHA (24th Edition), 4500 F- C/D	0.26
В	Hexavalent Chromium (as Cr+6)	mg/l	APHA (24th Edition), 3500 Cr B	BDL(DL:0.05)
9	Lead (as Pb)	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.005)
10	Manganesê (as Mn)	mg/l	APHA (24th Edition), 3120 B	0.28
1.1	Mercury (as Hg)	mg/l	APHA (24th Edition) 3112 B	BDL(DL:0.001)
12	Nitrate as NO3	mg/l	APHA (24th Edition), 4500 NO3-E	38
13	Zinc (as Zn)	mg/l	APHA (24th Edition), 3120 B	BDL(DL:0.05)

Opinion :

NA

Statement of Conformity

END -

Вачечно Ву

Sgramma

Designation

Technical in charge

Authorized Signatory

Technical in charge

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The reserved part of sample(s) for chemical analysis (Non - peristudia sample(s) Food. Water) shall be retained for 15 days from the date of assus of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

from the page of security of sample(s) for chemical analysis (Soil, Solid & Liquid Weste) shall be retained for 15 days as per CPCB guideline 5 (Air) 1 month from the date of insure of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of assure of the Test Report.

Shrac's Centre (5th Floor), 74B, A.J.C. Boss Road, Kolkats - 700015; West Bernal, India. Tel. : 91 33 40145000 / 22650007 Fax : 91 33 22650009 Head Office: Email info@merask.com/Website www.merask.com



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Name & Address of Customer:

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Tata Steel Ltd.(MGM)_Joda West

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Email udayanlab@mitrask.com





Doc No MSKIGEN/19/07

TESTING . INSPECTION

Scan for Portal

ULR: TC-695024000001067F

TEST REPORT

Report No.:

24/01/2024

Date : Sample No.:

MSKNB/ED/2023-24/12/E153FT

Date of receipt of sample:

28/12/2023

Date(s) of performance:

28/12/2023 - 02/01/2024

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

MSKPL/ED/2023-24/J10E6N

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Pollution & Environment
2. Description of sample	Waste Water
3. Unique Identification of sample(if any)	NA
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4349 Bamebari Oil & water Separation Near Garage
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained.
7. Sampling Plan & Method used	APHA 23rd edition,2017
8. Identification of the personnel performing sampling by MSK	Pratik Kr. Mantri & Akash Kr Setty
9. Field Equipments Used	N/A

Report No. : MSKPL/ED/2023-24/J10E6N Sample No.: MSKNB/ED/2023-24/12/E153FT

RESULT

Micro Biology						
SI No.	Parameter	UOM	Method	Result		
t	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th .edtn, 9221B	14		

Opinion:

NA.

Statement of Conformity

END -

Reviewed Hy

Signature

Name

Ms Maziriyas Chakraborly

Designation

Executive Marchinoget

Authorized Signifory

Signature

Mit Microyee Chakrebody

Designation

Executive Microbiologist

The results telate only to the demis) tested

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The reserved part of sample(s) for chemical analysis (Non - pershable sample(s) Foot. Water) shall be relained for 15 days from the date of sause of the Test Report. Penshable sample(s) shall be relained 2 days. from the date of issue of the Test Report.

The reserved part of sample(s) for dramical analysis (Soil, Solid & Louid Waste) shall be retained for 15 days as per CPCB guideline & (Azr.) I month from the date of trace of the Test Report. The reserved part of sample(s) for Microbiological analysis (Non - penshable sample(s) Food. Sealed Water, Sealed food) shall be retained for 15 days from the date of trace of the Test Report.

Head Office:

Streets Centre (5th Floor), 748, A.J.C. Bose Hoad, Kolluda - 700016, West Banget, India Tal. : 91 33 40143000 / 22650007 Fax: 91 33 22650000 Email: enfo@mtrask.com Wildalfe : www.milnask.com

21.12.2023

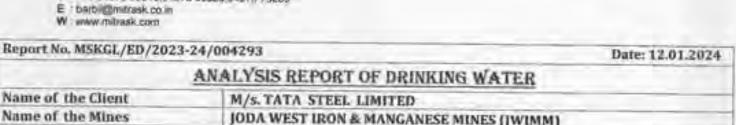
WIP IN LET (JWIMM)

AVP.O.:BARBIL Ward No-6 Oint. Keohihar. Odsha - 756035 GIN. US1909WB1956PTC023037

Date of sampling

Location

T +91 94370 09815 94370 09820 94370 75269



CHEMICAL ANALYSIS OF WATER AS PER 15: 10500 - 2012

SI.	Test Parameters	Unite	Method	Norms as per IS: 10500- 2012		
No.	an engage	Duite	method	Destrable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0
2	Culcium (as Ca)	nig/I	APMA (24th Edition),3500 Ca B	75	200	9.6
3	Chloride (as Cl)	mg/l	APHA (24th Edition),4500 -Cl B	250	1000	18
4	Electrical conductivity	us/cm	APHA (24th Edition),2510R	-		91
5	Iron (as Fe)	mg/l	APRA (24th Edition),3500 Fe B	0.3	No Relaxation	0.56
6	Odour	Hazen	3025 (Part-5)-1983;Rffm:2012	Agrecable	Agreeable	Agreeable
2	Magnesium (as Mg)	mg/I	APHA (Z4th Edition), 3500 Mg H	30	100	1.9
B	pH value at 18.2 deg C	None	APHA 24th Edition, 2023,4500,11+B	6.5-8.5	No Relaxation	5.7
9	Potassium (as K)	mg/I	APHA (24th Edition), 3500 K B	947	-	<1.0
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Estraction)	0.001	0.002	<0.001
11	Salinity	PSU	APHA (24th Edition), 2520B	-		0.06
12	Sodium (ies Na)	mg/I	APHA (24th Edition), 3500 Na B			5.3
13	Sulphate (as SO4)	mg/I	APHA (24th Edition) 4500 SD42-E	200	400	1.4
14	Taste	None	IS 3025 (Part fij-1983 Rffm:2012:[0)	Agreeable	Agreeable	Agreeabl
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 2320B	200	600	28
16	Total Dissolved Solids (as TDS)	nig/l	APRA (24th Edition), 2540C	500	2000	54
17	Total Hardness (as CaCO3)	mg/I	APHA (24th Edition), 2340 C	200	600	32
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edinon) 25400	-	***	6
19	Turbidity	N.T.U	APHA (24th Edition), 21308	1	5	1.7

Checked by:- |4

For Mitra S. K. Private Limited

Authorized Signatory

H. O., Shrachi Centre (5th Flour), 748. Acharya Jagadish Chimdra Bose Roed, Kolkalis - 700 016. West Bengal, India T: 91 33 22172249 / 4014 3000 / 2265 0006 / 2265 0007 F: 91 33 2265 0008 E Info@marask.com W. www.marask.com



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Report No. MSKGL/ED/2023	port No. MSKGL/ED/2023-24/ 004294			
	ANALYSIS REPORT OF DRINKING WATER			
Name of the Client	M/s, TATA STEEL LIMITED			
Name of the Mines	Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)			
Date of sampling	21.12.2023			
Location	WTP OUT LET (JWIMM)			

CHEMICAL ANALYSIS OF WATER AS PER 15: 10500 - 2012

SI.	Test Parameters	Unite	Method	Norms as 1	Para las	
No.	test rarameters	Unite	method	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APIIA (24thEdition),4500-NH3-F	0,5	No Relaxation	<1.0
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	8
3	Chloride (as CI)	mg/l	APHA (24th Edition),4500 -CLB	250	1000	10
4	Electrical conductivity	in/cm	APRA (24th Edition),2510B		-	102
5	Iron (as Fe)	mg/l	APHA (Z4th Edition),3500 Fe R	0.3	No Relaxation	0.33
6	Odour	Hazen	3025 (Part-5)-1983;RHm;Z012	Agreeable	Agreeable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	3.8
U	pH value at 18.4 deg C	None	APHA 24* Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	7.30
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 KB	-	-	c1.0
10	Phenolic Compound (asC6H5OH)	mg/I	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<0.001
11	Salinity	PSU	APHA (24th Edition), 2520B	-	-	0.054
12	Sodium (as Na)	mg/l	APIIA (24th Edition), 3500 Na B	-	-	5.6
13	Sulphate (as 504)	mg/t	APHA (24th Edition) 4500 SO42-E	200	400	2.4
14.	Taste	None	15 3025 [Part 8]-1983 Rffm: 2012_(0)	Agreeable	Agreeable	Agreeable
15	Total Alkalinity (as CaCO3)	mg/I	APHA (24th Edition), 23208	200	600	32
16	Total Dissolved Solids (as TDS)	mg/l	APFIA (24th Edition), 2540C	500	2000	60
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Editinn), 2340 C	200	600	36
18	Total Suspended Solid (as TSS)	mg/I	APHA (24th Edition),2540D			<2.5
19	Turbidity	N.T.U	APHA (24th Edition), 2130ff	1	5	1.4

Checked by:- My

For Mitra S. K. Private Limited

Authorized Signatory



ALP O. BARBIL Ward No-6 Dist. Keonjhar. Odisha - 758035 CIN: U51909WB1956PTC023037

T : +91 94370 09615,94370 09620 94370 75269 E : barbi@mtrask co in W: www.mtrask.com

Report No. MSKGL/ED/2023	ort No. MSKGL/ED/2023-24/004299	
	ANALYSIS REPORT OF DRINKING WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines		
Date of sampling	21.12.2023	
Location	Barnebari WTP Outlet	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SI.	Test Parameters	Matric	Acido de	Norms as p	No.		
No.	restratiments	Unite	Method	Desirable Limit	Permissible Limit	Results	
1	Ammonical Nitrogen	mg/I	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0	
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	26	
3	Ehloride (as Cl.)	mg/I	APHA (24th Edition),4500-CI B	250	1000	10	
4	Electrical conductivity			-	230		
5	(ron (as Fe)			No Relaxation	<0.05		
6	Odour	Hazen	3025 (Part-5)-1983;Rilm:2012	Agreeable	Agreeable	Agrecable	
7	Magnesium (as Mg)	Mg) mg/l APRA (24th Edition), 3500 Mg H 30 16		100	12		
B	pH value at 25 deg C	None	APHA 24th Edition, 2023,4500,31+B 6,5-B,5 No Relaxation APHA (24th Edition), 3500 KB		No Relaxation	6.71	
9	Potassium (as K)	nig/I			-	<1.0	
10	Phenolic Compound (asC6H5OH)	mg/l	APEIA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<0.001	
11	Salinity PSU	PSU	APHA (24th Edition), 25208	APHA (24th Edition), 25208	lition), 25208 — — —	_	0.117
12	Sodium (as Na)	mg/l	mg/l APHA (24th Edition), 3500 Na B	-	5.4		
13	Sulphate (as SO4)	mg/l	APHA (24th Edition) 4500 SO42-E	200	400	4.5	
14	Taste	None	IS 3025 (Part 8)-1983 Rffm:2012_(0)	Agreeable	Agreeable	Agreeable	
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 2320B	200	600	1.04	
16	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	500	2000	138	
17	Total Hardness (as CaCO3)	mg/l	APHA [24th Edition], 2340 C	200	600	112	
18	Total Suspended Solid (as TSS)	mg/I	APHA (24th Edition),25400	-	-	<2.5	
19	Turbidity	N.T.U	APHA (24th Edition), 213DH	1	5	<1.0	

Checked by:- NO



AIP O BARBIL Ward No-6 Dest: Keorijhar, Odaha - 758035 CIN: U51909WB1956PTC023037

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E : hartil@mitrask.co.ir W: www.mitrask.com

Report No. MSKGL/ED/2023	3-24/004301	Date: 12.01.2024
	ANALYSIS REPORT OF DRINKING WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	21.12.2023	
Location	Barnebari WTP Inlet	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL.	Test Parameters	Unite	Mathed		per IS: 10500- 2012	Besselle
No.	7.507,000,000	Dittite	Method	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0
2	Colcium (as Co)	mg/l	APHA (24th Edition),3500 Ca 8	75	200	2.1
3	Chloride (as Cl.)	Chloride (as Cl.) mg/l APHA (24th Edition),450tl -Cl Electrical conductivity us/cm APHA (24th Edition),2510tl		250	1000	В
4	Electrical conductivity			-	-	204
5	Iron (as Fe)	mg/l	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	<0,05
6	Odour			Agreeable	Not Agreeable	
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B 30 100		11	
В	pH value at 25 deg C	None AFHA 24th Edition, 2023,4500,H+B 6,5-8,5 No Relaxation		No Relaxation	6.14	
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 K B		_	<1.0
10	Phenolic Compound (asC6H5OH)	mg/l	APRA (24th Edition), \$530C (Chloroform Extraction)	0.001	0.002	<0.001
11	Salimity	PSU	APIIA (24th Edition), 2520B	-	-	0.104
12	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na II	-	-	5.5
13	Sulphate (as SO4)	mg/l	APHA (24th Edition) 4500 5042-E	200	400	5.3
14	Taste	None	IS 3025 (Part 8)-1983 Ritm:2012_(0)	Agreeable	Agreeable	Not Agreeable
15	Total Alkalimity (as CaCO3)	mg/l	APHA (24th Edition), 2320B	200	600	100
16	Total Dissolved Solids (as TDS)	mg/l	APITA (24th Edition), 2540C	500	2000	126
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200	600	96
18	Total Suspended Solid (as TSS)	mg/I	APHA (24th Edition),2540D	-	_	<2.5
19	Turbidity	N.T.U	APHA (24th Edition), 21309	1	5	<1.0

Checked by: M2

Address of Laboratory:

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Tel. +91 7044036120 Email udayanlab@mitrask.com





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MSKPL/FD/2023-24/WQE159

28/12/2023 - 17/01/2024

Permanent Facility

17/01/2024

ULR: TC-6950240000000803F

Tala Steel Ltd (MGM) Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

TEST REPORT

Date:

Sample No.:

MSKNB/FD/2023-24/12/UN15EP 28/12/2023

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

3000156017/056, Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results

Report No.: MSKPL/FD/2023-24/WQE159

Sample No.: MSKNB/FD/2023-24/12/UN15EP

RESULT

2777		1				
SI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)
2	Zinc as Zn	mg/l	IS 3025 (Part 2)	5	15	BDL(DL:0.02)
3	Colour	Hazen	IS 3025 (Part 4)	5	15	BDL(DL·1.0)
4	Copper as Cu	mg/i	(S 3025 (Part 2)	0.05	1.5	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	0.05	No Relaxation	BDL(DL:0.02)
6	Fluoride as F	mg/i	IS 3025 (Part 60)	1.0	1.5	BDL(DL 0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	0.1	0.3	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	0.001	No Relaxation	BDL(DL.0.0002
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL 0.01)
11	Nitrate as NO3	mg/I	APHA (24th EDITION) 4500-NO3- B	45	No Relaxation	8.07
12	Selenium as Se	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL.0.005)
13	Silica (as SiO2)	mg/l	IS 3025 (Part 35)	Not Specified	Not Specified	BDL(DL:0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	0.1	No Relaxation	BDL(DL.0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	0.05	No Relaxation	BDL(DL 0.01)
16	Cadmium as Cd	mg/l	IS 3025 (Part 2)	0.003	No Relaxation	BDL(DL:0.001)

Opinion:

Acceptable limit & Permissible limit are as per IS 10500 2012

Statement of Conformity

The results results only to the dem(s) tested

END -

Drivinwed By

Signah re Мати

Onegration

Technical in charge, Sr. Eva Chemier

Authorized September

Or Devottern Ballerjee, Me Atroyen Sahe Technical in charge, Sr. Exe. Chemist

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The reserved part of sample(s) for chemical analysis (Non - pershable sample(s) Food, Water) shall be retained 2 pays from the date of issue of the Test Report. Peristable sample(s) shall be retained 2 pays from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil Solid & Liquid Weste) shall be retained for 15 days as per CPCH guideline & (Az) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sasted Wilter, Sealed tood) shall be retained for 15 days from the date of eace of the Test Report.

Head Office:

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Page 1 of 1

Doc No MSK/GEN/19/07 TESTING . INSPE

Name & Address of Customer:

Address of Laboratory :

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Tel.: +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000803F

Doc No MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/WQE159 Report No. :

Date: 17/01/2024

MSKNB/FD/2023-24/12/UN15EP Sample No. :

Date of receipt of sample: 28/12/2023

Date(s) of performance: 28/12/2023 - 29/12/2023 Location of performance of Permanent Facility

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	DRINKING WATER	
3. Unique Identification of sample(if any)	NA .	
4. Date of sampling	27/12/2023	
5. Place of sampling	BBL-4345 Barnebari WTP Outlet	
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS:17614(P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Akash Kr. Selty & Dhambrudhar Das	

Report No. : MSKPL/FD/2023-24/WQE159

NA

Sample No.: MSKNB/FD/2023-24/12/UN15EP

RESULT

Micro Biology								
SI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result		
1	Total Coliform Bacteria	/100ml	IS 15185	Not Detectable	Not Applicable	Not Detected		
2	E. Coll	/100ml	IS 15185	Not Detectable	Not Applicable	Not Defected		

Opinion:

Acceptable limit & Permissible limit are as per IS:10500:2012.

Statement of Conformity

END ----

Reviewed By

Eigneluro

My Mazayen Chalusborry

(Totalghasson) Executive Microbiological Authorized Signatury

Signature Numin

Mr. Memorus Charmicoty

Demoration

Executive Microbiologist

This Test Report shall not be reproduced example of Aut, without the permission of Mittle S.K. Private Limited.
The reserved part of semple(s) for chemical analysis (Non - perishable sample(s) Food. Water) shall be retained for 15 days from the date of ensure of the Test Report. Perishable sample(s) shall be retained 3 days.

from the date of issue of the Test Report.

The reserved part of sample(s) for thermical analysis (Soil, Solid & Liquid Weste) shall be retained for 15 days as per CPCB guideline & (Av) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - pershable sample(s)) Food, Sosted Wester, Sealed tood) shall be retained for 15 days from the date of issue of the Test Report.

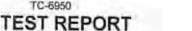
Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, Pagladanga Road, Kolkata 700015. West Bengal

Tel.: +91 7044036120

Email: udayanlab@mitrask.com







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MSKPL/FD/2023-24/BLE153

ULR: TC-695024000000802F

Report No.: Date:

17/01/2024

Sample No. : MSKNB/FD/2023-24/12/P715DQ

Date of receipt of sample:

28/12/2023

Date(s) of performance:

28/12/2023 - 17/01/2024

Location of performance of

Permanent Facility

Reference No. & Date:

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Water & Residue in Water
2. Description of sample	DRINKING WATER
3. Unique Identification of sample(if any)	NA .
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4344 Bamebari WTP Inlet
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17614(P-5) 2022
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das
Ponert No . MEVEL EDMONT DAIR FARS	The state of the s

Report No.: MSKPL/FD/2023-24/BLE153

Sample No.: MSKNB/FD/2023-24/12/P715DQ

RESULT

hemical						
SI No.	Parameter	NOW	Method	Acceptable Limit	Permissible Limit	Result
4	Arsenic as As	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)
2	Zinc as Zn	mg/l	IS 3025 (Part 2)	5	15	BDL(DL:0.02)
3	Colour	Hazen	IS 3025 (Part 4)	5	15	BDL(DL:1.0)
4	Copper as Cu	rng/l	IS 3025 (Part 2)	0.05	1:5	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	0.05	No Relaxation	BDL(DL:0.02)
6	Fluoride as F	mg/l	IS 3025 (Part 60)	1.0	1.5	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	0.1	0.3	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	0.001	No Relaxation	BDL(DL 0.0002
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL:0.01)
11	Nitrate as NO3	rng/l	APHA (24th EDITION) 4500-NO3- B	45	No Relaxation	4.12
12	Selenium as Se	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)
13	Silica (as SiO2)	mg/l	IS 3025 (Part 35)	Not Specified	Not Specified	BDL(DL 0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	0.1	No Relaxation	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	0.05	No Relaxation	BDL(DL:0.01)
16	Cadmium as Cd	mg/l	IS 3025 (Part 2)	0.003	No Relaxation	BDL(DL:0.001)

Opinion 1

Acceptable limit & Permissible limit are as per IS 10500 2012

Statement of Conformity

END -

Signature

or Atrayer Saus Dr. Gevottom Barjerjee, Mr. Atrayre Sahe

Aumonzed Skanillory

Dr. Devoltery Barrerpes, Mr. Attayob Sucia

Tychnical in charge St. Exe. Chemist

Name

Designation

Technical In charge Sr Ere Chemist

The results relate only to the item(s) tested.

The Test Report shall not be reproduced except in full, without the permission of Micra S. 8. Private Limited.
The reserved part of sample(s) for chemical analysis (Non-perishable sample(s) Food. Weller; shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days.

The reserved part of semple(s) for the Test Report.

The reserved part of sample(s) for themical analysis (Sol., Solid & Liquid Wissle) shall be retained for 15 days an per CPCB guideline 5 (Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - pointstable sample(s) Food. Sealed Wister, Sealed food; shall be retained for 15 days from the date of asset of the Test Report.

Shrachi Centra (5th Floor), 74B, A.J.C. Beele Road, Kolkelar 1700016, West Bengal, India. Tel. 8t 33:40(43000 / 22650007 Fax: 31:33:22650008 Email: info@mitrask.com Website I www.mitrask.com

Page 1 of 1

Doc No. MSKIGEN/19/07

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Al/Po. - Joda, Dist. - Keonjnar, Odisha - 758034 India

Chamiasi

Reymmed By

Désignation

Head Office:

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagiadanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM) Joda West

Tel.: +91 7044036120 Email udayanlab@mitrask.com





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ULR: TC-695024000000802F

Doc No. MSK/GEN/19/07

TEST REPORT

Report No.:

MSKPL/FD/2023-24/BLE153

Date:

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/P715DQ

Date of receipt of sample: Date(s) of performance:

28/12/2023

Location of performance of

28/12/2023 - 29/12/2023 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 15/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	DRINKING WATER	
3. Unique Identification of sample(if any)	NA.	
4. Date of sampling	27/12/2023	
5. Place of sampling	BBL-4344 Bamebari WTP Inlet	
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614(P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/BLE153

Sample No.: MSKNB/FD/2023-24/12/P715DQ

RESULT

Micro Biology							
SI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result	
1	Total Coliform Bacteria	/100ml	IS 15185	Not Detectable	Not Applicable	Not Detected	
2	E Coli	/100ml	IS 15185	Not Detectable	Not Applicable	Not Detected	

Opinion:

Acceptable limit & Permissible limit are as per IS 10500:2012

Statement of Conformity

END -----

Havinwed By

Standuni Name

Ms. Maibrevee Chairmborty

Descriptions

Executive Microbiologist

Authorized Signwiney.

Signature

Ms Marrayon Charaborty

Designation

Executive Microbiologist

The results relate only to the tiem(s) tested

The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained to 15 days from the date of results of the Test Report. Perishable sample(s) simple on Food, Water) shall be retained to 15 days from the date of results of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Waster shall be meaned for 15 days as per CPCB guide in a (Air) 1 month from the date of hause of the Test Report.

The reserved part of sample(s) for Chemical analysis (Non - penshable sample(s) Food; Sealed Water, Sealed food) shall be retained for 15 days from the main of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - penshable sample(s) Food; Sealed Water, Sealed food) shall be retained for 15 days from the main of issue of the Test Report.

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tel +91 7044036120

Email: udayanlab@mitrask.com

Tata Steel Ltd (MGM)_Joda West





TEST REPORT Report No.:

MSKPL/FD/2023-24/0FE15B Date: 08/01/2024

Sample No. : MSKNB/FD/2023-24/12/ZZ10C2

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 08/01/2024 Location of performance of Permanent Facility

2000156017/056. Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Water & Residue in Water
2. Description of sample	DRINKING WATER
3. Unique Identification of sample(If any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4330 JWIMM WTP Out let
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17614(P-5) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Dhambrudhar Das
Papart No. + MCKRI (ED/2002 DAMEETED	The state of the s

Reference No. & Date :

Report No. : MSKPL/FD/2023-24/0FE15B Sample No.: MSKNB/FD/2023-24/12/ZZ10C2

RESULT

Chemical						
SI No.	Parameter	NOM	Method	Acceptable Limit	Permissible Limit	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0 005)
2	Zinc as Zn	mg/l	IS 3025 (Part 2)	5	15	BOL(DL 0.02)
3	Colour	Hazen	IS 3025 (Part 4)	5	15	BDL(DL 1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	0.05	1.5	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	0.05	No Relaxation	BDL(DL:0.02)
6	Fluoride as F	mg/l	IS 3025 (Part 60)	1.0	1.5	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BOL(DL-0.005)
8	Manganese as Mn	mg/t	IS 3025 (Part 2)	0.1	0.3	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	0.001	No Relaxation	BDL(DL:0.0002
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL:0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	45	No Relaxation	0.95
12	Selenium as Se	mg/L	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL-0.005)
13	Silica (as SiO2)	mg/l	IS 3025 (Part 35)	Not Specified	Not Specified	0.18
14	Silver as Ag	mg/l	IS 3025 (Part 2)	0.1	No Relaxation	BDL(DL 0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	0.05	No Relaxation	BDL(DL:0.01)
16	Cadmium as Cd	mg/l	IS 3025 (Part 2)	0.003	No Relaxation	BDL(DL:0.001)

Opinion:

Acceptable limit & Permosible limit are as per IS 10500 2012

Statement of Conformity

NA

END

Revewed By

Signature

Descriptory

Or Devottom Bar rjed Mr. Atroyee Sano

Technical in charge, St. Exe. Clien

Authorized Signatory

Signature

Dr. Devottam Burwinen, Mr. Atrayon Sarai

Technical In charge, Sr. Ese. Chemiss

The results relate only to the demis) tested

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This reserved part of sample(s) for chemical analysis (Not - penshable sample(s) Food. Water) shall be retained for 15 days from the date of resue of the Test Report. Penshable sample(s) shall be retained 2 dass from the date of issue of the Test Report.

from the case of saute of the Test report.
The reserved part of sample(a) for chemical analysis (Soil, Solid & Liquid Wester) shall be retained for 15 days as per CPGB guideline & (Ax) if mores from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis rivers perishable sample(s) Food, Sealed Wester, Sealed food; shall be lettered for 15 days from the date of issue of the Test Report.

Shrachi Centre (5th Floor), 74B. A.J.C. Bose Road, Rollatte - 700016, West Bengel, India Tel: 101.33.40143000 / 22550007 Fzs: 191.33.22050008 Head Office: Email info@mitrank.com Website www.mitrans.com

Doc No.: MSK/GEN/19/07

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000345F

DOC NO. MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/0FE15B

08/01/2024

MSKNB/FD/2023-24/12/ZZ10C2

23/12/2023

23/12/2023 - 26/12/2023

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Water & Residue in Water
2. Description of sample	DRINKING WATER
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4330 JWIMM WTP Out let
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17614(P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Dhambrudhar Das

Report No. : MSKPL/FD/2023-24/0FE15B

Sample No.: MSKNB/FD/2023-24/12/ZZ10C2

RESULT

Micro Biology							
Si No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result	
1	Total Coliform Bacteria	/100ml	IS 15185	Not Detectable	Not Applicable	Detected	
2	E Coll	/100ml	IS 15185	Not Detectable	Not Applicable	Not Detected	

Opinion:

Acceptable limit & Permissible limit are as per IS 10500:2012

Statement of Conformity

END -

Reviewed By

Signature

Marrie

Ms. Mastreyee Chakraborty.

Designation Executive Microbiologist Autrorized Signatory

Ms. Matreyee Chavapors

Executive Microbiologist

The results relate only to the mem(s) tested.

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The reserved part of sample(s) for chemical analysis (Non - perintiable sample(s) Food, Water) shall be retained for 15 days from the data of issue of the Test Report. Penshable sample(s) shall be retained 2 days. from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil & Liquid Waste) shall be retained for 15 days as per CPCB guideline 5 (Air) I month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological energies (Non - pertinable sample(s) Food, Seared Waster Selvid food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Shrach Centre (5m Floor: 748, A.J.C. Bose Road, Kolkata - 700010). West Burge. India. Tel 91 33 40143000 / 22650007 Fax 91 33 72950006 Email wholem cask com Website www.mitrask.com

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal

Tel.: +91 7044036120

Email udayanlab@mitrask.com





ULR: TC-695024000000344F

Doc No MSKIGEN/19/07

Report No. : MSKPL/FD/2023-24/HKE14J Date: 08/01/2024

MSKNB/FD/2023-24/12/4010D0 Sample No.:

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 08/01/2024 Location of performance of Permanent Facility

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Chemical

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	DRINKING WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4330 JWIMM WTP In let
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS:17614(P-5) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Dhambrudhar Das
Daniel M. House en mine a state of	The state of the s

Report No.: MSKPL/FD/2023-24/HKE14J

Sample No.: MSKNB/FD/2023-24/12/4010D0

RESULT

Chemical					hemical								
SI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result							
1	Arsenic as As	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL 0.005)							
2	Zinc as Zn	mg/l	IS 3025 (Part 2)	5	15	BDL(DL:0.02)							
3	Colour	Hazen	IS 3025 (Part 4)	5	15	BDL(DL 1.0)							
4	Copper as Cu	mg/l	IS 3025 (Part 2)	0.05	1.5	BDL(DL 0.02)							
5	Cyanide as CN	mg/I	IS 3025 (Part 27) Sect	0.05	No Relaxation	BDL(DL.0.02)							
6	Fluoride as F	mg/I	IS 3025 (Part 60)	1.0	1.5	BOL(DL-0.2)							
7	Lead as Pb	mg/l	(S 3025 (Part 2)	0.01	No Relaxation	BDL(DL:0.005)							
8	Manganese as Mn	mg/t	IS 3025 (Part 2)	0.1	0.3	BDL(DL:0.02)							
9	Mercury as Hg.	mg/l	IS 3025 (Part 48)	0.001	No Relaxation	BDL(DL:0.0002)							
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No Relaxation	BDL(DL 0.002)							
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	45	No Relaxation	1.05							
.12	Selenium as Se	mg/l	IS 3025 (Part 2)	0.01	No Relaxation	BDL(DL 0.005)							
13	Silica (as SiO2)	mg/l	IS 3025 (Part 35)	Not Specified	Not Specified	0.15							
14	Silver as Ag	mg/l	IS 3025 (Part 2)	0.1	No Relaxation	BDL(DL:0.005)							
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	0.05	No Relaxation	BDL(DL:0.01)							
16	Cadmium as Cd	mg/l	IS 3025 (Part 2)	0.003	No Relaxation	BDL(DL:0.001)							

Opinion:

Acceptable limit & Permissible limit are as pair IS 10500 2012

Statement of Conformity

END -

Revenued By

Signature

Dasignation

Authorized Signatury

Sgretue

Name

eyee Ms Atrayee Sahi

Technical In charge, St. Eve. Chemist

The results relate only to the item(s) tested

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This reserved part of sample(s) for chemical enalysis (Non-perishable sample(s) Foot, Water) shall be retained for 15 days from the date of less, a of the Test Report. Perishable sample(s) shall be retained 2 days.

The reserved part of sample(s) for chemical enalysis (Soil, Soild & Legard Wester) shall be retained for 15 days as per CPCB guideline & (Ar.) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological enalysis (Non - perishable sample(s) Food, Shalled Water, Shalled food) what is be retained for 15 days from the date of asset of the Test Report.

Head Office:

Shrachi Centra (Str. Floor), 74B. A.J.C. Bose Road, Kolkelia - 700016, West Bengal, India. Trii. 91 33 40143000 / 22650007 Flax. 91 33 22650008 Email. Info@mitrask.com Website. Www.mitrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkala 700015

West Bengal

Tel.: +91 7044036120

Email udayanlab@mitrask.com





Scan for Portal

ULR: TC-695024000000344F

Doc No. MSKIGENHOUT

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM), Joda West.

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/HKE14J

08/01/2024

MSKNB/FD/2023-24/12/4010D0

23/12/2023

23/12/2023 - 26/12/2023

Permanent Facility

3000156017/056 Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	DRINKING WATER	
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4330 JWIMM WTP in let	
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS:17614(P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/HKE14J

Sample No.: MSKNB/FD/2023-24/12/4010D0

RESULT

Micro Biology							
SI No.	Parameter	UOM	Method	Acceptable Limit	Permissible Limit	Result	
1	Total Coliform Bacteria	/100ml	IS 15185	Not Detectable	Not Applicable	Detected	
2	E Coli	/100ml	IS 15185	Not Detectable	Not Applicable	Not Detected	

Opinion :

Acceptable limit & Permissible limit are as per IS 10500:2012

Statement of Conformity

END -

Heynmand By

Signature

Ms. Marreyee Chakreporty

Disagrestion Executive Microbiologist Authorized-Signatory.

Signiture

Ms. Maintenan Characters

Executive Microbiologist

The results relate only to the item(s) tested.

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food: Water) shall be retained for 15 days from the date of insue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Woods) shall be retained for 15 days as par CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Micropiological imalysis (Non-perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Shrachi Centre (Str. Floor), 74B, A.J.C. Bose Road, Kokate - 700016, West Bengal, India Tel: 91.33.40143000 / 22650007 Fax: 91.33.22650008 Email: info@mutrask.com Wotsite: www.mstrask.com



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Report No. MSKGL/ED/2023	eport No. MSKGL/ED/2023-24/004300	
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	27.12.2023	
Location	Borewell Near Nana Hotel, Joribar (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL	Test Parameters	Unite	Mark 1	The second second second	per IS: 10500- 2012	
No.	Test Parameters	unite	Method	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-NHJ-F	0,5	No Relaxation	<1.0
2	Calcium (as Ca)	ing/t	APHA (24th Edition),3500 Ca B	75	200	17
3	Chloride (as Cl.)	mg/l	APRA (24th Edition),4500 -CJ B	250	1000	12
4	Electrical conductivity	us/cm	APHA (24th Edition),25T0B	-	-	145
5	Iron (as Fe)	mg/I	APHA (24th Edition), 3500 Fe H	0,3	No Relaxation	< 0.05
6	Ödoor	None	3025 (Part-5)-1983;Rffm:2012	Agreeable	Agreeable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	7.7
8	pH value at 25 deg C	None	APHA 24th Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	6,45
9	Potassium (as K)	mg/I	APRIA (24th Edition), 3500 K B		-	×0.001
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<1.0
11	Salinity	PSU	APHA [24th Edition], 2520B	-	_	0.075
12	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	-	+	6.4
13	Sulphate (as SO4)	mg/l	APHA (24th Edition) 4500 S042-E	200	400	2.2
14	Taste	None	IS 3025 (Part 8)-1983 Kfin::Z012_(0)	Agrecable	Agreeable	Agreeable
15	Total Alkalinity (as CaCO3)	mg/I	APHA (24th Edition), 23208	200	600	48
16	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	500	2000	89
17	Total Bardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200	600	60
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	-	-	<2.5
19	Turbidity	N.T.U	APHA (24th Edition), 21308	1	5	<1.0

Checked by:- M



AIP O BARBIL Ward No-6 Dist: Keonihar, Odeiha - 758035 CIN: US1909WB1968PTC023037

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Report No. MSKGL/ED/202	eport No. MSKGL/ED/2023-24/004304	
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	BAMEBARI TRON & MANGANESE MINES (BIMM)	
Date of sampling	27.12.2023	
Location	Borewell No-1, Bamebari Near Club House (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

51.	Test Parameters	Unite	Method	The second secon	per IS: 10500- 2012	
No.	V. C. S.	Diuce	method	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0
2	Calcium (as Ca)	mg/l	APIIA (24th Edition),3500 Ca B	75	200	22
3	Chloride (as CL)	mg/l	APHA (24th Edition),4500 -Cl B	250	1000	10
4	Electrical conductivity	us/cm	APHA (24th Edition),2510B	-	-	215
5	Iron (as Fe)	mg/l	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	<0.05
6	Odour	None	3025 (Part-5)-1983;Rffm:2012	Agreeable	Agreeable	Agrecable
7	Magorsium (as Mg)	mg/l	APIIA (24th Edition), 3500 Mg R	30	100	13
B	pH value at 25 deg C	None	APHA 24% Edition, 2023,4500,H+R	6.5-8.5	No Relaxation	6.02
9	Potassium (as K)	mg/I	APHA (24th Edition), 3500 R B	-	-	<0.001
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<1.0
11)	Salinity	PSII	APHA (24th Edition), 2520B	1-	-	0.11
12	Sodium (as Na)	mg/L	APHA (24th Edition), 3500 Na It	-	-	4.6
13	Solphate (av SO4)	mg/1	APHA (24th Edition) 4500 SO42-E	200	400	7.3
14	Taste	None	IS 3025 (Part 8)-1983 Mbs:2012_(0)	Agreeable	Agreeable	Agreeable
15	Total Alkalinity (as CaCO3)	mg/l	AFHA (24th Edition), 2320H	200	600	100
16	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 25400	500	2000	130
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200	600	112
1.0	Total Suspended Solid (as TSS)	mg/l	APIIA (24th Edition),25400	-		<2.5
19	Turbidity	N.T.U	APHA (24th Edition), 2130R	1	5	<1.0

Checked byr-





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Report No. MSKGL/ED/2023	Date: 12,01,2024	
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	27,12,2023	
Location	Borewell No-2, Bamebari Near Jagannath Temple (BIMM)

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL	Wast Wasterstand	Mades	and a	The second secon	per IS: 10500- 2012	
No.	Test Parameters	Unite	Method	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	ng/l	APJIA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	10
3	Chloride (a) Cl)	mg/l	APHA (24th Edition),4500 -Cl 8	250	1000	20
4	Electrical conductivity	us/cm	APHA (24th Edition),2510B	-	=	168
5	Iron (as Fe)	mg/I	APHA (24th Edition),3500 Fe fi	0.3	No Relaxation	<0.05
6	Odear	None	3025 (Part-5)-1903;Rffm:2012	Agrecable	Agrecable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg H	30	100	7,7
8	pB value at 25 deg C	None	APIIA 244 Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	6.04
9	Potassium (as K)	mg/l	APHA (Z4th Edition), 3500 K H	-	-	<0.001
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	1.3
11	Salinity	PSU	APHA (24th Edition), 2520B	~	-	0.086
12	Sodium (as Na)	mg/l	APIIA (24th Edition), 3500 Na B	-	-	12.4
13	Sulphate (as SO4)	mg/1	APHA (24th Edition) 4500 5042-E	200	400	1.5
14	Tauté	None	IS 3025 (Part 8)-1983 liffm:2012 (0)	Agreeable	Agreeable	Agrecable
15	Total Alkalinity (as CaCO3)	mg/I	APHA (24th Edition), 2320B	200	60t	52
16	Total Dissolved Solids (as TDS)	mg/I	APRA (24th Edition), 2540C	500	2000	102
17	Total Hardness (as CaCO3)	mg/l	APRA (24th Falition), 2340 C	200	600	56
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	1	-	<2.5
19	Turbidity	N.T.U	APHA (24th Edition), 2130B	1	5	<1.0

Checked by:- MD



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Report No. MSKGL/ED/202	3-24/004305	Date: 12.01.2024
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s, TATA STEEL LIMITED	
Name of the Mines	BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	27.12.2023	
Location	Open dugwell Near Jarouli High School Juridi (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL No.	Test Parameters	Unite	Method	Norms as		
			V	Desirable Limit	Permissible Limit	Results
1	Ammonical Nitrogen	mg/l	APIIA (24thEditimi).4500-NH3-F	0.5	No Relaxation	<1.0
2	Calcium (as Ca)	mg/I	APHA (24th Edition),3500 Ca B	75	200	14
3	Chloride (as Cl)	tng/l	APIIA (24th Edition),4500 -(28	250	1000	2.6
4	Electrical conductivity	us/cm	APRA (24th Edition),25108	-	-	210
5	Iron (as Fe)	mg/l	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	<0.05
6	Odour	None	3025 (Part-5)-1983;Rfmc2012	Agreeable	Agreeable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Editim), 3500 Mg B	30	100	4.8
8	pH value at 25 deg C	Nane	APHA 24th Edition, 2023,4500,H+B	6.5-8.5	No Relaxation	5.86
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 K B	-	-	< 0.001
10	Phenolic Compound (asC6H5OH)	mg/I	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	3.6
11	Salinity	PSU	APHA (24th Edition), 2520B	-	-	0.107
12	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	-	-	18
13	Sulphate (as SO4)	mg/L	APHA (24th Edition) 4500 S042-E	200	400	4.0
14	Taste	None	(5 3025 (Part 8)-1983 Rffnc2012_(0)	Agreeable	Agreeable	Agrecable
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 2320B	200	600	52
16	Total Dissolved Solids (as TDS)	mg/l	APIIA (24th Edition), 2540C	500	2000	122
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200	600	56
10	Total Suspended Solid (as TSS)	mg/l	APHA (28th Edition),2540D	-	-	<2.5
19	Turbidity	N.T.U	APRA (24th Edition), 2130B	1	5	1.6

Checked by:- My___

For Mitra S. K. Private Limited

Authorized Signatory

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Report No. MSKGL/ED/202	3-24/004296	Date: 12.01.2024
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES ([WIMM)	
Date of sampling	26.17.2023	
Location	Bichakundi Borewell No -1 Near Community Toilet (]WIM	M)

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

51.	Test Parameters	Unite	Method		per IS: 10500- 2012		
No.			perand	Desirable Limit	Permissible Limit	Results	
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-N/I3-F	0.5	No Relaxation	<0.1	
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	4.8	
3	Chloride (as Cl')	mg/l	APIIA (24th Edition),4506-CI R	250	1000	10.5	
4	Electrical conductivity	ns/cm	APHA ('24th Edition),2510B	-	-	54	
5	Iron (as Fe)	mg/l	АРИА (24th Edition),3500 Fe B	0,3	No Relaxation	<0.05	
6	Odour	None	3025 (Part-S)-1983;Rffm:2012	Agreeable	Agreeable	Agreeable	
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	1.9	
8	pH value at 23 deg C	None	APHA 24th Edition, 2023,4500,8+8	6.5-8.5	No Relaxation	5,53	
9	Potassium (as K)	mg/I	APRA (24th Edition), 3500 KB	-	-	<0.001	
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<1.0	
11	Sallnity	PSU	APHA (24th Edition), 25208	-	-	0.03	
12	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	-	- 1	4.2	
13	Sulphate (as SO4)	mg/I	APHA (24th Edition) 4500 S042-E	200	400	1.34	
14	Tasté	Name	35 3025 (Part 8)-1983 Rifm:2012 (O)	Agreeable	Agreeable	Agreeable	
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 23208	200	600	28	
16	Total Disselved Solids (as TDS)	mg/l	APILA (24th Edition), 2540C	500	2000	30.3	
17	Total Hardness (as CaCO3)	mg/l	APIIA (24th Edition), 2340 C	200	600	20	
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	-	-	<2.5	
19	Turbidity	N.T.H	APBA (24th Edition), 21308	1	5	≼1.0	
		100000000000000000000000000000000000000				970	

Checked by:- M



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Report No. MSKGL/ED/202	3-24/004295	Date: 12.01.2024
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s, TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	26.12.2023	
Location	Bichakundi Boreweli No -2 Near WTP (JWIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL.	Test Parameters	Unite	Method		per IS: 10500- 2012	Results
No.		4000	method	Desirable Limit	The state of the s	
1	Ammonical Nitrogen	mg/l	APIKA (24thEdition),4500-NH3-F	0.5	No Relaxation	<1.0
2	Calcium (as Ca)	mg/l	APHA (24th Edition),3500 Ca B	75	200	6.4
3	Chlorsde (as Cl.)	mg/L	APBA (24th Edition).4500-CJ B	250	1000	12.4
4	Electrical conductivity	us/cm	APHA (24th Edition),25108	-	-	124
5	iron (as Fe)	mg/l	APHA (24th Edition),3500 Fe B	0.3	No Relaxation	< 0.05
6	Odour	None	3025 (Part-5)-1983;80fm:2012	Agreeable	Agreeable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	30	100	6.7
В	pH value at 23 deg C	None	APHA 24th Edition, 2023,4500,91+11	6.5-8.5	No Relaxation	5.82
9	Potassium (as K)	mg/l	APHA (24th Edition), 3500 KB	***	-	<0.001
10	Phenolic Compound (asC6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	0.001	0.002	<1.0
11	Salinity	PSU	APHA (24th Edition), 2520B	~	-	0.08
12	Sodium (as Na)	mg/L	APHA (24th Edition), 3500 Na B		+	4.8
13	Sulphate (as SO4]	mg/1	APHA (24th Edition) 4500 SO42-E	200	400	3.7
14	Taste	None	IS 3025 (Part 8)-1983 R@nc2012_(0)	Agreeable	Agreeable	Agreeable
15	Total Alkalinity (as CaCO3)	mg/l	APHA (24th Edition), 23208	200	600	.32
16	Total Disselved Solids (as TDS)	mg/I	APHA [24th Edition], 25400	500	2000	68.4
17	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	200	600	44
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	ia.		-2.5
19	Turbidity	N.T.U	APHA (24th Edition), 2130B	- 1	5	<1.0

Checked by:- M





At/P O :BARBIL Ward No-6 Diet Keunjhar Odisha - 758035 CIN: U51909WB1956PTC023037

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Report No. MSKGL/ED/202.	3-24/004297	Date: 12.01.2024
	ANALYSIS REPORT OF GROUND WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST TRON & MANGANESE MINES (JWIMM)	
Date of sampling	26.12.2023	
Location	Bichakundi Borewell No -3 Near Micro Activity Centre (JWIMN	1):

CHEMICAL ANALYSIS OF WATER AS PER IS: 10500 - 2012

SL.	Test Parameters	Unite	Method	The state of the s	per IS: 10500- 2012	Results
No.	G. F. S. M. M. M.	Omte	мещоп	Desirable Limit	and the second s	
1	Ammonical Nitrogen	mg/l	APHA (24thEdition),4500-NH3-F	0.5	No Relaxation	<7.0
2	Calcium (as Ca)	mg/l	APRIA (24th Edition) 3500 Ca 8	75	200	16
3	Chloride (as Cl.)	mg/l	APHA (24th Edition) A500 -Cl B	250	1000	12.3
4	Electrical conductivity	us/cm	APHA (24th Edition),2510B	200-		208
5	Iron (as Fe)	mg/l	APRA (24th Edition),3500 Fe B	0,3	No Relaxation	< 0.05
6	Odour	Name	3025 (Part-5)-1983;Rffm:2012	Agreeable	Agreeable	Agreeable
7	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg R	30	100	11
B	pH value at 23 deg C	None	APHA 24th Editson, 2023,4500,H+B	6,5-6,5	No Relaxation	6.05
9	Potassium (as K)	mg/I	APHA (Z4th Falition), 3500 KB	-	-	< 0.001
10	Phenolic Compound (asC6H5OH)	mg/I	APHA (24th Edition), SS30C [Cilloroform Extraction)	0.001	0.002	<1.0
11	Salinity	PSU	APHA (24th Edition), 2520B	-		0.13
12.	Sodium (as Na)	mg/l	APHA (24th Edition), 3500 Na B	-	-	5.5
13	Sulphate (as SQ4)	mg/I	APHA (24th Edition) 4500 SO42-E	200	400	5,38
14	Taste	None	IS 3025 (Part 8)-1983 Rifm;2012_(0)	Agreeable	Agreeable	Agreeable
15	Total Afkalinity (as CaCO3)	mg/l	APHA (24th Falition), 2320B	200	600	68
16	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	500	2000	114
17	Total Hardness (as CaCO3)	mug/T	APHA (24th Edition), 2340 C	200	600	84
18	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D		-	<2.5
19	Turbidity	N.T.U	APRA (24th Edition), 21308	1	5	<1,0

Checked by:- W

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM) Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000804F

DOC NO MSK/GEN/19/07

TESTING + INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/5ME156

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/NZ16AB

Date of receipt of sample:

29/12/2023

Date(s) of performance: Location of performance of 29/12/2023 - 17/01/2024 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(If any)	NA NA
4. Date of sampling	28/12/2023
5. Place of sampling	BBL-4350 Open dugwell Near Jaroull High School Jurudih
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 13969 (F-11) 2018
8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das

Report No.: MSKPL/FD/2023-24/5ME156

Sample No.: MSKNB/FD/2023-24/12/NZ16AB

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/I	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL-0.02)
5	Cyanide as CN	mg/I	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
6	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	(S 3025 (Part 48)	BDL(DL:0.0002)
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL.0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.80
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silica as SiO2	mg/l	(S 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Reversed By

Signature

Designation

Name

De Banyou Atrayers and

Technical in charge, St. Exe. Chemiel

Authorized Significity

Signature

Do Barry Atrage Sana

Name

Dr. Devottern Barerjee, Mr. Atrayee Salna

Designation

Technical In charge Sr Eve Chemist





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ULR: TC-695024000000804F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM) Joda West

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/5ME156 Report No.:

17/01/2024 Date:

MSKNB/FD/2023-24/12/NZ16AB Sample No.:

29/12/2023 Date of receipt of sample:

Date(s) of performance: 29/12/2023 - 30/12/2023 Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
GROUND WATER
NA NA
28/12/2023
BBL-4350 Open dugwell Near Jarouli High School Jurudin
(2 -5) deg C Cold chain maintained
IS: 17614 (P-25) 2022
Dhamrudhar Das

Report No. : MSKPL/FD/2023-24/5ME156 Sample No.: MSKNB/FD/2023-24/12/NZ16AB

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
1	E. coli	/100ml	IS 15185	Detected
2	Total coliform	/100ml	IS 15185	Detected

Opinion :

NA NA

Statement of Conformity

END

Beverwing By

Signature

Ms. Marroyee Charretony

Designation

Executive Microbiologist

Authorized Signatury

Ms. Matreyee Chakraborty

Designation

Executive Microbiologist

The results relate only to the item(s) tested.

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Test Report. Penanable sample(s) shall be intained 2 days. from the date of issue of the Test Report.

The reserved part of samplets for chamical analysis (Scil, Solid & Lloud Waste) shall be returned for 15 days as per CPCB guideline & (Air, 1 manth from the date of issue of the Test Report. The reserved part of samplets) for Microbiological analysis (Non-perishable samplets) Food, Sealed Moser, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel. +91 7044036120

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758934 India

Tata Steel Ltd.(MGM)_Joda West

Tel. +91 7044036120 Email udayanlab@mitrask.com





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ULR: TC-695024000000367F

Doc No MSK/GEN/19/07

TEST REPORT

Report No. :

Date:

MSKPL/FD/2023-24/J1E15D

08/01/2024

Sample No.:

MSKNB/FD/2023-24/12/VH15DK

Date of receipt of sample: 28/12/2023

Date(s) of performance: Location of performance of 28/12/2023 - 08/01/2024

Reference No. & Date :

Permanent Facility 3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA .
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4348 Borewell No-2, Barnebari Near Jagannath Temple
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 13969 (P-11) 2018
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/J1E15D

Sample No.: MSKNB/FD/2023-24/12/VH15DK

RESULT

Chemical				
SI No.	Parameter	NOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Gadmium as Cd	mg/l	(S 3025 (Part 2)	BDL(DL:0:001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
6	Fluoride as F	mg//	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0 005)
8	Manganese as Mri	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
11	Nitrate as NO3	mg/L	APHA (24th EDITION) 4500-NO3- B	2.90
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silica as SiO2	mg/(IS 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l.	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Reviewed By

Signature

Designation

Name

Dr Barrey Attage Can

Technical In charge, 5r Exe Chemist

Authorized Signitory:

Signature

Dr. Devoltam Bartejoe Ma Atrayee Salva

Designation

Technical in charge Sr. Exe. Chemist

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM) Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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DOC NO. MSK/GEN/19/07

TESTING + INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/J1E15D

Date:

08/01/2024

Sample No.:

MSKNB/FD/2023-24/12/VH15DK

Date of receipt of sample:

28/12/2023

Date(s) of performance:

28/12/2023 - 29/12/2023

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4348 Borewell No-2, Bamebari Near Jagannath Temple
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/J1E15D

Sample No.: MSKNB/FD/2023-24/12/VH15DK

RESULT

Micro Biology				
SI No.	Parameter	иом	Method	Result
4	E coli	/100ml	IS 15185	Not Detected
2	Total coliform	/100ml	IS 15185	Not Detected

Opinion :

NA

Statement of Conformity

NA

---- END ----

Reviewed By

Signatura

Ms. Macrayee Chairabody

Designation Executive Microbiologist

Authorized Signistory

Signature

Name

Ms. Matroyee Chesraborty

Desgration.

Executive Microcoroguit

The results relate only to the denial tested

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food. Water) shall be returned for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be returned 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Suit, Solid & Liquid Weste) shall be retained for 15 days in per CPCB guideline & (Air) it month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - pershabile sample(s) Food, Siraled Wester, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Stracts Centre (5th Floor), 74B, A.J.C. Bose Road, Kolketa -700016. West Bengal, India. Tel. 91.33.40143000 / 22650007 Fais. 91.33.22650008. Email: info@mirask.com Website, www.mirask.com

Address of Laboratory :

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel : +91 7044036120

Email: udayaniab@mitrask.com





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ULR: TC-695024000000366F

DOC NO. MISKIGEN/19/07

TESTING . INSPEC

TEST REPORT

Name & Address of Customer: Rep

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No.: MSKPL/FD/2023-24/BQE159

Date: 08/01/2024

Sample No.: MSKNB/FD/2023-24/12/RC15CY

Date of receipt of sample: 28/12/2023

Date(s) of performance: 28/12/2023 - 08/01/2024

Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date: 15/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4347 Borewell No-1, Barnebari Near Club House
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 13969 (P-11) 2018
B. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/BQE159

Sample No.: MSKNB/FD/2023-24/12/RC15CY

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 10)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	(S 3025 (Part 27) Sec1	BDL(DL:0.02)
6.	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	3.80
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silica as SiO2	mg/l	IS 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	nig/l	(S 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	(S 3025 (Part 2)	BDL(DL 0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Reviewed By

Signature

Name

Di Devotari Barogoo Ma Atravoo Sana

Designation Fechnical in charge, Sr. Exe Chemiel

Authorized Eigenstory

5 granury

Name

Dr. Devotiam Barerjee, Ma Atrayor Sens

Designation

Technical in charge Si. Eve Charest

Address of Laboratory :

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Tel +91 7044036120 Email: udayanlab@mitrask.com





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ULR: TC-695024000000366F

Doc No. MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/BQE159 Report No.:

08/01/2024 Date:

MSKNB/FD/2023-24/12/RC15CY Sample No.:

Date of receipt of sample: 28/12/2023

Date(s) of performance: 28/12/2023 - 29/12/2023 Location of performance of **Permanent Facility**

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA:
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4347 Borewell No-1, Barnebari Near Club House
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/BQE159 Sample No.: MSKNB/FD/2023-24/12/RC15CY

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
1	E. coli	/100ml	IS 15185	Not Detected
2	Total coliform	/100ml	IS 15185	Not Detected

Opinion:

NA

NA

Statement of Conformity

END -

Rosswed By

Signature

Name

Ma. Matteyon Chakrabotty

Designation Executive Microbiologui Authorized Signatory

Signature Name

Ms Matreyee Chekrisporty

Designation

Exmative Microbologist

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The reserved part of sample(s) for chemical analysis (Non-pershable sample(s) Foot, Waler) shall be retained for 15 days from the date of issue of the Test Report.
This has been been assured from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Weste) that is ported for 15 days as per CPCB guideline & (Air) 1 month from the date of asset of the Yest Report. The reserved part of sample(s) for Microbiological analysis (Non-pershable sample(s) Food, Busined Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Doc No. MSK/GEN/19/07





Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120 Email udayanlab@mitrask.com





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TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AUPo. - Joda. Dist. - Keonjhar, Odisha - 758034 India

Report No.: MSKPL/FD/2023-24/Q7E15L

Date: 08/01/2024

Sample No.: MSKNB/FD/2023-24/12/1315EQ

Date of receipt of sample: 28/12/2023

Date(s) of performance: 28/12/2023 - 08/01/2024

Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4346 Borewell Near Nana Hotel, Joribar
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	(S: 13969 (P-11) 2018
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/Q7E15L

Sample No.: MSKNB/FD/2023-24/12/1315EQ

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
4	Copper as Cu	mg/l	(S 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
6	Fluoride as F	rng/l	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0 005)
5	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	2.03
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL 0.005)
13	Silica as SiO2	mg/l	IS 3025 (Part 35)	BDL(DL.0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Gr	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zing as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Raywa ed By

Signature Nome De Devotier Baroner Ms Atrayla Saha

Designation Technical In charge, Sr. Exe Chemist

Authorized Signatory

Signature IX

Mame Dr Devo

Or Devottam Harmyon, Ms. Atrayon Sa

Datagration

Technical in charge, St. Eve. Chemial

Address of Laboratory :

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West Bengal Tel. +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000365F

Doc No MSKIGEN/19/07

TESTING + INSPECTION

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No.:

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/Q7E15L

08/01/2024

MSKNB/FD/2023-24/12/1315EQ

28/12/2023

28/12/2023 - 29/12/2023

Permanent Facility

3000156017/056, Date - 16/09/2023

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	GROUND WATER	
3. Unique Identification of sample(if any)	NA .	
4. Date of sampling	27/12/2023	
5. Place of sampling	BBL4346 Borewell Near Nana Hotel, Jonbar	
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Akash Kr. Setty & Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/Q7E15L Sample No.: MSKNB/FD/2023-24/12/1315EQ

RESULT

ficro Biology				
SI No.	Parameter	UOM	Method	Result
11	E. coli	/100ml	IS 15185	Not Detected
2	Total coliform	/100ml	IS 15185	Not Detected

Opinion:

NA

Statement of Conformity

NA

END .

Revenued By

Signature

Designation

Norm Me Metroyee Charaborty

Executive Microbiological

Alterard Squa

Ms. Malfreyee Chakraborty

Designation

Exercitive Microbiologist

The results relate only to the flem(s) tested.

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The reserved part of sample(s) for disembed unelysis (Non - pershable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Test Report.

The reserved part of sample(s) for disembed analysis (Soil, Solid & Liquid Water) shall be retained for 15 days as per CPCB guidaline & (Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food. Sasked Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Srivactii Centre (5th Floor), 748, A.J.C. Bose Road, Kokata ~700016, West Bengal, India Tel.: 91 33 40143000 / 22550007 Fax: 91 33 2550008 Email info@mitrask.com Website: www.mitrask.com

Address of Laboratory:

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West Bengal

Tel. +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000799F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po - Joda, Dist - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/2CE15B Report No.:

17/01/2024 Date:

MSKNB/FD/2023-24/12/DY15CN Sample No.:

27/12/2023 Date of receipt of sample:

27/12/2023 - 17/01/2024 Date(s) of performance: Location of performance of Permanent Facility

3000156017/056, Date - 16/09/2023 Reference No. & Date:

Chemical Discipline:

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA:
4. Date of sampling	26/12/2023
5. Place of sampling	BBL-4334 Bichakudi Borewell No-3 Near Micro Activity Center
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 13969 (P-11) 2018
8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Setty

Report No.: MSKPL/FD/2023-24/2CE15B

Sample No.: MSKNB/FD/2023-24/12/DY15CN

RESULT

Chemical				
SI No.	Parameter	иом	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL 0,02)
8	Fluoride as F	mg/t	IS 3025 (Part 60)	BDL(DL 0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL(DL:0.4)
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silica as SiO2	mg/l	IS 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Heverwed By

Bignature

-Atrayer Sana

Dysignation

Technical in charge, Sr. Exe. Chernal.

Name

Dr Devotami Banerjee Me Atrayee Saha

Disignation

Technical in charge Sr Exe Chemist

- A trayer Sorka

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer:

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

West Bengal Tel. : +91 7044036120

Email: udayanlab@mtrask.com





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ULR: TC-695024000000799F

Doc No: MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/2CE168

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/DY15CN

Date of receipt of sample:

27/12/2023

Date(s) of performance: Location of performance of

27/12/2023 - 28/12/2023 Permanent Facility

Reference No. & Date:

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	26/12/2023
5. Place of sampling	BBL-4334 Bichakudi Borewell No-3 Near Micro Activity Center
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Setty

Report No.: MSKPL/FD/2023-24/2CE15B

Sample No.: MSKNB/FD/2023-24/12/DY15CN

RESULT

ficro Biology				
SI No.	Parameter	UOM	Method	Result
1	E. coli	/100ml	IS 15185	Not Detected
2	Total coliform	/100ml	IS 15185	Not Detected

Opinion:

NA NA

Statement of Conformity

END -

Reviewed By

Name

Ma Matreyou Charaborty

Designation Executive Microbiologist

Authorized Signatory

Manna

Ms Melmybe Characorty

Designation

Executive Microbiologist

The results relate only to the itim(s) tested.

The Test Report shall not be recorded as cept in full, wideout the permission of Mitra S.K. Private Limited.

The Test Report shall not be recorded as cept in full, wideout the permission of Mitra S.K. Private Limited.

The test Report shall not be recorded as a large of the Test Report. Perishable sample(s) shall be retained for t5 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical snallysis (Soil & Liquid Wisster) shall be retained for 15 days as per CPCB guidaline & (Air) 1 month from the date of issue of the Test Report. The reserved part of sample(s) for chemical snallysis (Soil & Liquid Wisster) shall be retained food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Strachi Centre (5th Poor), 748, A.J.C. Bose Road, Kokata - 700016, West Bengal, India, Tel., 91 33 40143000 / 22550007 Fax: 91 33 22550006

Page 1 of 1

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Tel.: +91 7044036120

Email udayanlab@mitrask.com





Scan for Portal

ULR: TC-695024000000798F

Doc No MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date: 17/01/2024

Sample No.: MSKNB/FD
Date of receipt of sample: 27/12/2023

Date of receipt of sample: 27/12/20
Date(s) of performance: 27/12/20

Location of performance of

Reference No. & Date :

Reference No. & Date .

Discipline:

MSKPUFD/2023-24/VCE15P

MSKNB/FD/2023-24/12/7H15EN

27/12/2023 - 17/01/2024

Permanent Facility

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	GROUND WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	26/12/2023
5. Place of sampling	BBL-4333 Bichakudi Borewell No-2 Near WTP
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS: 13969 (P-11) 2018
8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Setty

Report No.: MSKPL/FD/2023-24/VCE15P

Sample No.: MSKNB/FD/2023-24/12/7H15EN

RESULT

SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
6	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002
10	Nickel (as Ni)	mg/l	(\$ 3025 (Part 2)	BDL(DL:0.01)
11	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL(DL:0.4)
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
13	Silica as SiO2	mg/l	IS 3025 (Part 35)	BDL(DL-0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Roviewed By

Signature

Dr. Devotier Banegee. Mr. Altryle Saha

Technical in charge, St. Exe. Chrimite

Authorized Signatory.

Signifize

armar

Dr. Devottani Barterjee, Ms. Atrayee Satu

Devignation

Technical in charge, Sr Eke, Chemist

Address of Laboratory:

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Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel.: +91 7044036120

Email: udayanlab@mltrask.com





ULR: TC-695024000000798F

Doc No.: MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Report No. :

MSKPL/FD/2023-24/VCE15P

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/7H15EN

Date of receipt of sample:

27/12/2023

Date(s) of performance: Location of performance of 27/12/2023 - 28/12/2023

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Setty	
7. Sampling Plan & Method used	IS: 17614 (P-25) 2022	
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained	
5. Place of sampling	BBL-4333 Bichakudi Borewell No-2 Near WTP	
4. Date of sampling	26/12/2023	
Unique Identification of sample(if any)	NA .	
2. Description of sample	GROUND WATER	
1. Group	Water & Residue in Water	

MSKPL/FD/2023-24/VCE15P Report No.:

Sample No.: MSKNB/FD/2023-24/12/7H15EN

RESULT

licro Biology				
SI No.	Parameter	UOM	Method	Result
1	E, coli	/100ml	IS 15185	Not Detected
2	Total coliform	/100ml	IS 15185	Not Detected

END .

Opinion:

NA

Statement of Conformity

Reviewed By

Signature

Ms. Maltreyee Chalcaborty

Desgration

Executive Microbiologist

Authorized Signalon

Ma: Martnyan Ghavroborty

Emigration

Executive Microbiniogist

The results reliate only to the fem(a) tested

This Test Report shall not be reproduced except in full, without the permanent of Mitra 5 K. Private Limited.
The reserved part of sample(s) for chemical analysis (Non - penshable sample(s) Food, Water) shall be retained 2 days.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Weste) shall be retained for 15 days as per CPCB guideline S (Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Chemical analysis (Soil, Soild & Liquid Weste) shall be retained for 15 days from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non-pershable sample(s) Food, Sealed Water, Saused food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

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Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel : +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000797F

Doc No MSK/GEN/19/07

TESTING + INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/WDE15V

Date:

17/01/2024

Sample No.:

MSKN8/FD/2023-24/12/7015DL

Date of receipt of sample:

27/12/2023

Date(s) of performance: Location of performance of

27/12/2023 - 17/01/2024

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Selty
7. Sampling Plan & Method used	IS: 13969 (P-11) 2018
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
5. Place of sampling	BBL-4332 Bichakudi Borewell No-1 Near community Toilet
4. Date of sampling	26/12/2023
3. Unique Identification of sample(if any)	NA NA
2. Description of sample	GROUND WATER
1. Group	Water & Residue in Water

Report No.: MSKPL/FD/2023-24/WDE15V

Sample No.: MSKNB/FD/2023-24/12/7015DL

RESULT

Chemical Che				
SI No.	Parameter	иом	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
3	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
4	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
5	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.01)
6	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
7	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
8	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
9	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
10	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	BDL(DL.0.01)
13	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	BDL(DL:0,4)
12	Selenium as Se	mg/l	IS 3025 (Part 2)	BDL(DL-0.005)
13	Silica as SiO2	mg/l	IS 3025 (Part 35)	BDL(DL:0.1)
14	Silver as Ag	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
15	Total Chromium as Cr	mg/l	IS 3025 (Part 2)	BDL(DL:0.01)
16	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Reviewed By

Signilluni Name

Dr. Devottam Baherjee, Mr. Arrayee Saha

Clasignation

Head Office:

Technical in charge, Sr. Exe. Chemist

Authorized Someto

Signifium Name

Dr. Devotum Baryeree, Ms. Atrayon

Designation

Technical In charge St Eve Chemist

Shrachi Centre (5th Floor), 748, A.J.C. Bose Rond, Kolkata: 700015. West Bengal India. Tel: 91-33-40143000 / 22650007 Fax: 91-33-22650008. Email: Info@mitrask.com/Websits: www.mitrask.com.

Address of Laboratory:

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Name & Address of Customer:

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Tata Steel Ltd.(MGM)_Joda West

Tel. : +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000797F

DOC NO MSKUGEN 19107

TESTING + NSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/WDE15V

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/7015DL

Date of receipt of sample:

27/12/2023

Date(s) of performance:

27/12/2023 - 28/12/2023

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

8. Identification of the personnel performing sampling by MSK	Dhamrudhar Das & Akash Setty
7. Sampling Plan & Method used	IS: 17614 (P-25) 2022
6. Environmental conditions during sampling & Transport	(2 -5) deg C Cold chain maintained
5. Place of sampling	BBL-4332 Bichakudi Borewell No-1 Near community Tollet
4. Date of sampling	26/12/2023
3. Unique identification of sample(if any)	NA .
2. Description of sample	GROUND WATER
1. Group	Water & Residue in Water

Report No.: MSKPL/FD/2023-24/WDE15V Sample No.: MSKNB/FD/2023-24/12/7015DL

RESULT

Micro Biology					
SI No.	Parameter	UOM	Method	Result	
1	E, coli	/100ml	IS 15185	Not Detected	
2	Total coliform	/100ml	IS 15185	Not Detected	

Opinion:

NA

Statement of Conformity

NA

END ---

Heyrmend fly.

Signatura Name

Ms Maineyen Chakraborty

Disignation

Executive Microbiologist

Authorized Signatory

Signature

Nume

Ms Maitrevee Chiazaborty

Description

Executive-Microbiologist

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The reserved past of sample(s) for chemical analysis (Non - pensistes sample(s) Food, Water) shall be retained 2 days. from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Wealth) shall be retained for 15 days as per CPCB guidaline & (Au) 1 month from the date of assure of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - penshable sample(s) Food. Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Streechi Centre (5th Floor), 74B, A.J.C. Bose Road, Kolkate - 700016, West Bergel, India Tel: 91:33:401430007:23550007.Fax: bit 33:23550008 Einer info@mitrask.com Website www.mitrase.com

TESTING . INSPECTION

AVP O. BARBIL Ward No-6 Dist. Keonjhar Odleha - 756035 DIN U51909W81956PTC023037

T : +91 94370 09815 94370 09820 94370 75790 E : barbil@minask.com W: www.minask.com

Report No. MSKGL/ED/2023-24/004315		Date: 12.01.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines		
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 21.12.2023	
Location	Keth-Hutting before H-Quarry Up Stream []WIMM]	

CHEMICAL ANALYSIS OF WATER

SL. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APEIA (24th Edition), 2340 C	-	28
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 5220B	250	K4.0
A	Chloride (as Cl.)	mg/I	APHA (24th Edition), 4500 -Ci H	-	6
5	DO	ing/l	APHA 24th Edition, 2023 4500-0-E/G	-	6
b	Electrical conductivity	us/cm	APHA (24th Edition), 2510ff	-	90
7	fron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe fi	1	0.7
B	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	_	4.8
9	Odour	mg/l	APRA (24th Edition), 21508	Agreeable	Agreeable
10	Oil and Grease	nig/t	APHA (24th Edition), 55205	10.	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APIIA (Z4th Edition), 2520B	-	0.048
13	Suiphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	-	<1.0
14	Total Alkalinity	rag/l	APHA (24th Edition), 5210B	-44	40
15	Total Dissolved Solids (as TDS)	mg/I	APHA (24th Edition), 2540C	-	56
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	48
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition).2540D	50/100	≠2.5
18	pH value at 23.7 deg C	None	APHA 24th Edition, 2023 +500-H+B	5.5-9.0	7.56

Checked by:- MAD



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Report No. MSKGL/ED/202	eport No. MSKGL/ED/2023-24/004316	
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	21.12.2023	
Location	Keth-Hutting after II- Quarry Down Stream (IWIMM)	

CHEMICAL ANALYSIS OF WATER

SL. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as 800)	mg/I	APHA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APNA (24th Edition), 2340 C	-	16
3	Chemical Oxygen Demand (COD)	mg/i	APRA (24th Edition), 52208	250	<4.0
*	Chloride (as Cl.)	mg/I	APHA (24th Edition), 4500 CI B	-	6
5	DO	mg/I	APHA 24th Edition, 2023 4500-0-C/G	-	6.2
Ġ	Electrical conductivity	us/cm	APVIA (24th Edition), 25108	-	99
7	Iron (as Fe)	I\gm	APHA (24th Edition), 3500 Fe fi	3	0.7
8	Magnesium (as Mg)	mg/I	APHA (24th Edition), 3500 Mg fl	-	5.8
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 55208	10	<5.0
11	Phenolic Compounds (as C8H5OH)	mg/l	APIIA (24th Edition), 5530C (Chloruform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208		0.052
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 5042-E		1.3
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108	-	36
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	-	58
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	<2.5
18	pH value at 26.3 deg C	None	APRA 24th Edition, 2023 4500-II+E	5.5-9.0	5.89

Checked by: M

AHP.O. BARBIL Ward No.6 Dist. Keonjhar, Odeba - 758035 CIN. U51909WB1906PTC023037

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Report Nn. MSKGL/ED/2023-24/004266		Date: 12,01,2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines		
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 21.12.2023	
Location	Pichlaghat Khorbandg Down Stream (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
k.	Biochemical Oxygen Demand (as BOD)	mg/l	APIIA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	- 1-1	20
3	Chemical Oxygen Demand (COD)	mg/I	APIIA (24th Edition), 5220B	250	<4.0
4	Chloride (as Cl.)	mg/I	APHA (24th Edition), 4500 -(3 th	-	4
3	DO	mg/I	APIIA 24th Edition, 2023-4500-0-C/G	-	6.2
6	Electrical conductivity	us/cm	APHA (24th Edition), 25100	-	94
7	Iron (as Fe)	mg/l	APILA (24th Edition), 3500 Pe H	3	0.6
В	Magnesium (as Mg)	mg/l	APHA [24th Edition], 3500 Mg/l	-	4.8
9	Odour	mg/l	APHA (24th Edinon), 21508	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), SS20B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/I	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APIIA (24th Edition), 2520E	-	0.05
13	Sulphate (as SO4)	mg/1	APHA (24th: Edition), 4500 5042-E	-	<1.0
14	Total Alkalinity	mg/l	APHA (24th Edition), 5216B	-	40
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Editum), 2540C	-	56
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Editim), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/l	APIIA (24th Edition),25400	50/100	<2.5
18	pH value at 19.8 deg C	None	APIIA 24th Edition, 2023-4500-II+B	5.5-9.0	6.93

Checked by:- M

AUP C. BARBII, Ward No-6 Dist. Keonjhar, Odesha - 758035 DIN: U61909WB1956PTC023037

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W: www.milrask.com



Report No. MSKGL/ED/202	3-24/004317	Date: 12.01.2024		
Name of the Client	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED			
Name of the Mines				
Date of sampling	21.12.2023			
Location	Pichlaghat Pump House Up Stream (JWIMM)			

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/I	APHA (24th Edition), 2340 C		20
3	Chemical Oxygen Demand (COD)	rog/l	APIIA (24th Edition), 522tht	250	<4.0
4	Chloride (as Cl)	mg/I	APHA [24th Edition], 4500 -CI B		4
3	DO	ing/L	APHA 24th Edition, 2023 4500-0-C/G	-	6.2
6	Electrical conductivity	из/ст	APHA (24th Edition), 25108	-	97
7	Iron (as Fe)	mg/I	APHA (24th Editum), 3500 Fe B	3	0.4
B	Magnesium (as Mg)	rag/I	APHA (24th Edition), 3500 Mg S	-	5.8
9	Odour	mg/I	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/1	APRA (24th Edition), 5520H	10	<5.0
11	Phenolic Compounds (as C8H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25200		0.051
13	Sulphate (as SO4)	.mg/l	APHA [24th Sidition], 4500 SQ42-E		1.1
14	Total Alkalinity	mg/l	APHA (24th Edition), \$210B	-	44
15.	Total Dissolved Solids (as TDS)	mg/l	APHA (24th (idition), 2540C	-	60
16	Total Hardness (as CaCO3.)	mg/l	APITA (24th Edition), 2340 C	-	44
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	<2.5
18	pH value at 20.5 deg C	None	APHA 24th Edition, 2023 4500-H+8	5,5-9,0	6.96

Checked by:- M



AIP D. BARBIL Ward No-6 Dist: Keonjhor, Odishs - 758035 Cit: U51909WB1956P7C023037



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Report No. MSKGL/ED/202	Date: 12.01.2024	
	NOTES EXILEDITY	
Name of the Client	ANALYSIS REPORT OF SURFACE WATER M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (TWIMM)	
Date of sampling	21.12.2023	
Location	Gurubeda Baltarani River (JWIMM)	

CHEMICAL ANALYSIS OF WATER

St. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/I	APita (24th Edition), 52108	30	<2.0
2	Calcium (as CaCo3)	mg/l	APRA (24th Edition), 2340 C	-	32
3	Chemical Oxygen Demand (COD)	mg/i	APHA (24th Edition), 52208	250	<4.0
4	Chloride (as Cl.)	mg/l	AFILA (Z4th Edition), 4500 -CTB	-	5
5	DO	mg/l	APITA 24th Edition, 2023 4500-O-C/G	in.	6.1
6	Electrical conductivity	us/cm	APHA (24th Falition), 2510B		103
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	0.6
8	Magnesium (as Mg)	mg/l	APRA (24th Edition), 3500 Mg 8		3.8
9	Odour	mg/l	APHA (24th Edition), 21508	Agreeable	Agreeabl
10	Oil and Grease	mg/1.	APHA (24th Edition), 55208	10	<5.0
11	Phenolic Compounds (as C6H5CH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208	-	0.054
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	70.0	1
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108		-40
15	Total Dissolved Solids (as TDS)	mg/l	APEA (24th Edition), 2540C	-	52
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	48
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	<2.5
10	pH value at 19.7 deg C	None	APHA 24th Edition, 2023-4500-II+B	5.5-9.0	7.38

Checked by:- MD



AMP-D BARBIL Ward No-6 Dist. Keolijhar, Odisha - 758035 CIN: U51909WB1956PTC023037

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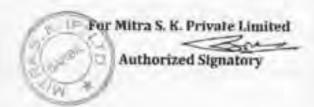


Report No. MSKGL/ED/202	eport No. MSKGL/ED/2023-24/004311	
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s, TATA STEEL LIMITED	
Name of the Mines		
Date of sampling	JODA WEST IRON & MANGANESE MINES (JWIMM) 21.12.2023	
Location	Tindharia Up Stream Baitarani River (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52109	30	<2.0
2	Calcium (as CaCo3)	ing/l	APHA (24th Edition), 2340 C	-	20
3	Chemical Oxygen Demand (COD)	mg/i	APHA (24th Edition), 5220H	250	<4.0
4	Chloride (as Cl.)	mg/1	APITA (24th Edition), 4500-CI B	-	4
5	DO	mg/l	APHA 24th Edition, 2023 4500-0-C/G	-	6.2
6	Electrical conductivity	us/cm	APIIA (24th Edition), 2510B	-	77
7	Iron (as Fa)	mg/l	AFHA (24th Edition), 3500 Fe B	3	0.7
8	Magnesium (as Mg)	mg/I	APIIA (24th Edition), 3500 Mg B		3.8
9	Odour	mg/I	APHA (24th Edition), 2150B	Agreeable	Agreeabl
10	Oil and Grease	mg/I	APHA (24th Edition), SS20B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	ing/l	APHA (24th Edition), 5538/C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APIIA (24th Falkien), 2520B	-	0.42
13	Sulphate (as SO4)	mg/I	APIIA (24th Edition), 4500 S042-8	-	<1.0
14	Total Alkatinity	stg:/l	APHA (24th Edition), 52100	-	32
15	Total Dissolved Solids (as TDS)	m ₀ /I	APIIA (24th Edition), 2540C	-	48
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	36
17	Total Suspended Solid (as TSS)	mg/1	APITA (24th Edition),2540D	50/100	<2.5
18	pH value at 19.4 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	7.15

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Report No. MSKGL/ED/202	3-24/004312	Date: 12.01.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)		
Date of sampling	21.12.2023	
Location	Tindharia Down Stream Baitarani River (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APIIA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/I	APHA (24th Edition), 2340 C	200k	24
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 522tiB	250	<4.0
4	Chloride (as CI)	mg/I	APHA (24th Edition), 4500 -Ci B	-	6
5	DO	mg/t	APHA 24th Edition, 2023 4500-0-C/G	-	5.2
6	Electrical conductivity	ns/cm	APHA (24th Edition), 2510B	-	95
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Pe B	3	1
8	Magnesium (as Mg)	mg/I	APRA (Z4th Edition), 3500 Mg B	-	3.8
9	Odour	mg/l	APITA (24th Edition), 2150tt	Agreeable	Agreeable
10	Oil and Grease	mg/I	APITA (24th Edition), 5520B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/1	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APIIA (24th Edition), 2520B	-	0.05
13	Sulphate (as SO4)	mg/1	APRA (24th Edition), 4500 S042-E	-	1.3
14	Total Alkalinity	mg/i	APHA (24th Edition), 5210B	-	36
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 25400		58
16	Total Hardness (as CaCO3)	mg/l	APRA (24th Edition), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/1	APIIA (24th Edition),25400	50/100	<2.5
111	pH value at 19.2 deg C	None	APBA 24th Edition, 2023 4500-H+B	5.5-9.0	7.5

Checked by: M

For Mitra S. K. Private Limited
Authorized Signalory

AUP O. BARBIL Ward No-6 Dirl Knorijhar Odelna - 750035 CIN. US1909WB1956PTC023037 MSK

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Report No. MSKGL/ED/202	3-24/004306	Date: 12,01,2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	21.12.2023	
Location	Palasa Kha Village Pond (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	30	9.1
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 G	-	44
3	Chemical Oxygen Demand (COD)	mg/1	APHA (24th Edition); 5220B	250	36
4	Chloride (as Cl.)	mg/l	APIIA (24th Edition), 4500 -G B		66
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G	100	6.1
5-	Electrical conductivity	us/cm	APHA (24th Edition), 2510H	-	610
7	Iron (as Fe)	mg/t	AFHA (24th Edition), 3500 Fe B	3	2.3
8	Magnesium (as Mg)	mg/I	APITA (24th Edition), 3500 Mg B	-	13
ŋ.	Odour	mg/l	APHA (24th Buition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520R	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l:	APHA (24th Edition), 55300 (Chloroform Extraction)	1	<0.001
1.2	Salimity	PSU	APHA (24th Edition), 2520B		0.316
13	Sulphate (as SO4)	mg/Y	APHIA (24th Edition), 4500 st042-R	-	1.3
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108	-	36
15	Total Dissolved Solids (as TDS)	mg/l	APITA (24th Edition), 2540C	-	58
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	***	40
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),2540D	50/100	34
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-I)+B	5.5-9.0	7.5

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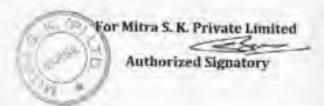
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Report No. MSKGL/ED/202	3-24/004308	Date: 12.01.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s. TATA STEEL LIMITED	-
Name of the Mines	JODA WEST IRON & MANGANESE MINES ([WIMM]	
Date of sampling	21.12.2023	
Location	Pond water Near ST High School Bhuya Rold	a (JWIMM)

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	Ng/I	AFRA (24th Edition), 52108	30	3,8
2	Calcium (as CaCo3)	mg/l	APHA (Z4th Edition), 2340 C	-	24
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 52200	250	16
4	Chloride (as Cl.)	mg/l	APHA (24th Edition), 4500-CJ H		16
5	DO	mg/l	APHA 24th Edition, 2023 450H-1-C/G	-	6.2
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510B		178
7	Iron (as Fe)	ing/l	APHA (24th Edimon), 3500 Fe fi	3	1.3
B	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg B	10	3.8
4)	Odour	mg/l	APILA (24th Edition), 21500	Agreeable	Agreeabl
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
11.	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 35300 (Chloreform Extraction)	1	<0.001
12	Salinity	PSU	APTIA (24th Edition), 25208		0.091
13	Sulphate (as SO4)	rng/l	APHA (24th fidition), 4500/5042-E	-	5.4
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108	-	50
15.	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 25400		110
16	Total Hardness (as CaCO3)	mg/l	APHA [24th Edition], 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	16
18	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	7.52

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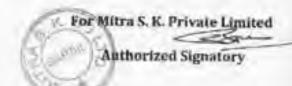
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Report No. MSKGL/ED/202	3-24/004309 Date: 12.01.202
	ANALYSIS REPORT OF SURFACE WATER
Name of the Client	M/s. TATA STEEL LIMITED
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)
Date of sampling	21.12.2023
Location	Sona River Kandra Village before confluence with Baitarni River (JWIMM)

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52108	30	<2.0
Z	Calcium (as CaCo3)	mg/I	APHA [24th Edition], 2340 C		32
3	Chemical Oxygen Demand (COD)	mg/1	APHA (24th Edition), 52208	250	<4.0
4	Chloride (as Ct)	mg/l	APHA [24th Edition], 4500 -CLU	-	10
5	DO	mg/l	APHA 24th Edition, 2023 4300-0-C/G	-	6.7
6	Electrical conductivity	us/cm	APIIA (24th Edition), 2510E	-	163
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe H	3	1
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg H		1.9
9	Odour	mg/l	APHA (24th Edition), 2150H	Agreeable	Agreeable
10	Oil and Grease	mgt/I	APHA (24th Edition), \$520B	10	<5.0
11	Phenolic Compounds (as CBH5OH)	mg/l	APRA (24th Edition), 55306 (Chlerofurio Extraction)	1	<0.001
12	Salinity	PSU	APIIA (24th Edition), 2520B		0.084
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 St)42-E	-	5.3
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210B	See.	60
15	Total Dissolved Solids (as TD5)	mg/l	APRA (24th Edition), 2540C	144	96
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/l	APIIA (24th Edition).2540D	50/100	d
10	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9.0	6.96

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AI/P O BARBIL Ward No-6 Dist : Keoninar, Odisha - 758035 CIN: US1009WB1956PTC023037



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Report No. MSKGL/ED/202	3-24/004318	Date: 12.01.2024
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)		
Date of sampling	21,12,2023	
Location	Baitarani River Kilandra Village (JWIMM)	

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	org/l	APITA (24th Edition), 521DB	30	<2.0
2	Calcium (as CaCo3)	mg/t	APRIA (24th Edition), 2340 C		32
3	Chemical Oxygen Demand (COD)	mg/l	APSA (24th Edition), 5220B	250	<4.0
4	Chloride (as Cl.)	mg/1	APIIA (24th Edition), 4500 -CI B	-	8
5	DO	mg/l	APHA 24th Edition, 2023 4500-O-C/G.	-	5.5
à	Electrical conductivity	us/cm	APIIA (24th Edition), 25108		131
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe 8	3	2.1
.0	Magnesium (as Mg)	mg/l	APRA (24th Edition), 3500 Mg B	-	2.9
4	Odour	mg/t	APHA (24th Fd)tion), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/1	APRIA (24th Falttion), 55200	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 55300. [Chloroform Distraction]	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 2520B	-	0.68
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	-	1.8
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210B	-	52
15	Total Dissolved Solids (as TDS)	mg/l	APIIA (24th Edition), 2540C		80
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/l	APHA (24th Edition),25400	50/100	<2.5
10	pH value at 19.2 deg C	None	APHA 24th Edition, 2023 4500-H+8	5.5-9.0	7.29

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Authorized Signatory



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Report No. MSKGL/ED/2023-24/004313 Date: 12.01.2024

ANALYSIS REPORT OF SURFACE WATER

Name of the Client M/s. TATA STEEL LIMITED

Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)

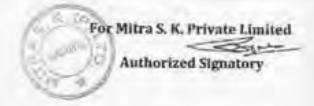
Date of sampling 21.12.2023

Location Vegetable garden Pond Bichakundiaitarani River Kilandra Village (JWIMM)

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APIIA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/l	APRIA (24th Edition), 2340 C		36
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 5226H	250	-<4.0
4	Chloride (as CI)	Nam	APITA (24th Falthon), 4508-CLB	-	8
5	DO	rng/I	APHA 24th Edition, 2023 4500-0 C/G	-	6.5
6	Electrical conductivity	us/cm	APIIA (24th Edition), 2510B	-	143
7	Iron (as Fe)	mg/1	APBA (24th Edition), 3500 Fe B	3	1
8	Magnesium (as Mg)	mg/1	APITA (24th Edition), 3500 Mg H	-	2
9	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APIIA (Z4th Edition), 55208	10	<5.0
11	Phenolic Compounds (as C8H5OH)	mg/l	APHA (24th Edition), 5530C (Chloroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208	-	0,074
13	Sulphate (as SO4)	mg/l	APIIA (24th Edition), 4500 5042-E	-	6.5
14	Total Alkalinity	mg/l	APHA (24th Edition), 5210H	-	42
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	-	86
16	Total Hardness (as CaCO3)	mg/I	APHA (24th Edition), 2340 C		48
17	Total Suspended Solid (as TSS)	mg/I	APIIA (24th Edition),2540D	50/100	24
18	pH value at 19.2 deg C	None	APRA 24th Edition, 2023 4500-81+R	5.5-9.0	7.43

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AdP.O. BARBIL Ward No.5 Dist: Keonpar, Odeha - 755035 CIN. US1909WB1956PTC023037

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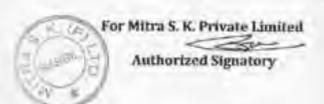
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Report No. MSKGL/ED/2023	3-24/004314	Date: 12.01.2024
	ANALYSIS REPORT OF SURFACE WATER	
Name of the Client	M/s, TATA STEEL LIMITED	
Name of the Mines	JODA WEST IRON & MANGANESE MINES (JWIMM)	
Date of sampling	21.12.2023	
Location	Sona River Near Mahanadi Guest House ([WIMM]	

CHEMICAL ANALYSIS OF WATER

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
U	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 52100	30	<2.0
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	-	24
3	Chemical Oxygen Demand (COD)	mg/l	APBA (24th Edition), 5220B	250	c4.0
4	Chlonde (as Cl.)	mg/l	APRA (24th Edition), 4500 -CI R	-	6
5	DO	l/gns	APHA 24th Edinon, 2023-4500-O-C/G	-	6.8
6	Electrical conductivity	us/cm	APHA (24th Edition), 25100	200	132
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe II	3	0.5
8	Magnesium (as Mg)	T\gm	APPLA (Z4th Edition), 3500 Mg R	-	3.8
9	Odour	mg/l	APRA (24th Edition), 2150B	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 5520B	10	<5.0
11	Phenolic Compounds (as C8H5OH)	mg/l	APIIA (24th Edition), 5530C (Chloruform Extraction)	1	<0.001
12	Salinity	PSU	APRA (24th Edition), 2520B		0.074
19	Sulphate (as SO4)	mg/l	AP/IA (24th Edition), 4500 5042-E	- Marie	2.5
14	Total Alkalinity	mg/l	APTIA (24th Edition), 52108	-	48
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C		80
16	Total Hardness (as CaCO3)	mg/l	APNA (24th Edition), 2340 C	-	40
17	Total Suspended Solid (as TSS)	mg/I	APHA (24th Edinon),25400	50/100	<2.5
18	pH value at 19.2 deg C	None	APHA 24th Edmon, 2023 4500-H+B	5.5-9.0	7.29

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ALP O :BARBIL Ward No-6 Dist. Keoryher, Odishe - 758035 CIN: US1909WB1958PTC023037

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Report No. MSKGL/ED/2023-24/004307 Date: 12.01.2024

ANALYSIS REPORT OF SURFACE WATER

Name of the Client M/s. TATA STEEL LIMITED

Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)

Date of sampling 21.12.2023

Location Jalbari Nala Jurudi (JWIMM)

CHEMICAL ANALYSIS OF WATER

SI. No.	Test Purameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
4	Biochemical Oxygen Demand (as BOD)	mg/I	APHA (24th Edition), 5210B	30	<2.0
2	Calcium (as CaCo3)	mg/I	APHA (24th Edition), 2340 C	-	28
3	Chemical Oxygen Demand (COD)	mg/1	APHA (24th Edition), 5220B	250	<4.0
4	Chloride (as-Ct)	mg/I	APRA (24th Edition), 4500 -CI B	100	6
5	DO	mg/I	APHA 24th Edition, 2023 4500-0-C/G	-	6.4
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510H	H	114
7	Iron (as Fe)	mg/1	APIIA (24th Edition), 3500 Fe B	3	1.6
8	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg/fl	-	5.8
9	Odour	mg/l	APHA (24th Editate), 21508	Agreeable	Agreeable
10	Oil and Grease	mg/l	APIIA (24th Edition), 5520B	10	<5.0
11	Phenolic Compounds (as C6H5OH)	mg/I	APHA (24th Edition), 553DC (Chloroform Extraction)	Y-	<0.001
12	Salinity	PSU	APHA (74th Edition), 2520B	-	0,25
13	Sulphate (as SO4)	mg/I	APHA (24th Edition), 4500 SD42-E	-	2.5
14	Total Alkalinity	mg/I	APIIA (24th Edition), 5210B	-	44
15	Total Dissolved Solids (as TDS)	mg/l	APRA (Z4th Edition), 2540C		68
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	52
12	Total Suspended Solid (as TSS)	mg/1	APHA (24th Edition),2540D	50/100	15
18	pH value at 19.2 deg C	None	APRA 24th Edition, 2023 4500-H+B	5.5-9.0	6.03

Checked by:- M



Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

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Email: udayanlab@mitrask.com





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MSKPL/FD/2023-24/1QDA06

ULR: TC-695024000000343F

Doc No MSK/GEN/19/07

TESTING & INSPECTION

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

08/01/2024 Date:

MSKNB/FD/2023-24/12/WE1049 Sample No.:

23/12/2023 Date of receipt of sample:

23/12/2023 - 08/01/2024 Date(s) of performance: Permanent Facility

Location of performance of

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Chemical Discipline:

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu
7. Sampling Plan & Method used	IS 17614 (P-23) 2021
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
5. Place of sampling	BBL-4329 Sona River Near Mahanadi Guest House
4. Date of sampling	21/12/2023
3. Unique Identification of sample(if any)	NA .
2. Description of sample	SURFACE WATER
1. Group	Water & Residue in Water

Report No.: MSKPL/FD/2023-24/1QDA06 Sample No.: MSKNB/FD/2023-24/12/WE1049

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0,25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL;1,0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0 02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	15 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.65
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

END

Reviewed By

Signature

De Baninga - they Dr. Devottam Bandjoe Dr Amertya Kumar Gupta

Designation - Tectvical in charge Authorized Kignetony

Signature

Designation

Lab to criston

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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MSKPL/FD/2023-24/10/DA06

ULR: TC-695024000000343F

Doc No MSK/GEN/19/07

TESTING + INSPECTION

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034. India

Report No.:

08/01/2024 Date:

Sample No.: MSKNB/FD/2023-24/12/WE1049

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 28/12/2023 Location of performance of Permanent Facility

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4329 Sona River Near Mahanadi Guest House
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/1QDA06 Sample No. : MSKNB/FD/2023-24/12/WE1049

RESULT

licro Biology					
SI No.	Parameter	UOM	Method	Result	
1	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th ledth, 9221B	22	

Opinion :

NA NA

Statement of Conformity

END

Royamed By

Struthist

Name

Mr Sukantii Palu

Tectro cal in charge Designation

Autrorated Signator

Signature

Name

Designation

Inchmical Inchange

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Waste) while be interred for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - pershable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

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Address of Laboratory:

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West Bengal Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000342F

DOC No. MSK/GEN/19/07

TESTING # INSPECTION

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Al/Po - Joda, Dist - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/0CDA0H Report No. :

08/01/2024 Date:

MSKNB/FD/2023-24/12/P0106J Sample No.:

23/12/2023 Date of receipt of sample:

Date(s) of performance: 23/12/2023 - 08/01/2024 Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Chemical Discipline:

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA .
21/12/2023
BBL-4328 Vegetable garden Pond Bichakundiaitarani River Kilandra Village
(2 - 5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/0CDA0H Sample No.: MSKNB/FD/2023-24/12/P0106J

RESULT

hemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0 001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 10)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL 0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BOL(DL.0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	rng/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
m	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0 0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	1.08
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

END.

Reywood By

Signature

Name

Demyn. Topm ee. Dr. Amertya Kumar Dr. Devoltam Bane

Desgruton Technical In over Authorised Signatory

Signature

Name

Designation

Beb in charge

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist - Keonjhar, Odisha - 758034 India

Tota Steel Ltd.(MGM) Joda West

Tel. .. +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000342F

DOC NO MSKIGEN 19/07

TESTING * INSPECTIO

TEST REPORT

Report No.:

MSKPL/FD/2023-24/0CDA0H

08/01/2024

Date: Sample No.:

MSKNB/FD/2023-24/12/P0106J

Date of receipt of sample:

23/12/2023

Date(s) of performance:

23/12/2023 - 28/12/2023

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4328 Vegetable garden Pond Bichakundialtarani River Kilandra Village
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
B. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/0CDA0H

Sample No.: MSKNB/FD/2023-24/12/P0106J

RESULT

licro Biology					
SI No.	Parameter	UOM	Method	Result	
4	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th ledth, 9221B	6.8	

Opinion:

NA NA

Statement of Conformity

END -----

Reverend by

Squatero

Name

Designation

Technical in charge

Authorized Sign

Signature

Designation

Technical Incharge

The results relate only to the item(s) tested

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days. from I've date of issue of the Test Report.

This reserved part of sample(s) for characal analysis (Soil, Solid & Liquid Wester) shall be reterred for 15 days as per CPCB guideline & (Air) 1 month from the date of same of the Teel Report. The reserved part of sample(s) for Microbiological analysis (Non-penshable sample(s) Food, Sealed Moter, Sealed food) shall be intellined for 15 days from the date of issue of the Test Report

Head Office:

Shrachi Centre (5th Floor), 74B, A.J.C. Bose Road, Kolksta - 700016, West Bengal, India 91 33 40143000 / 22650007 Fax 91 33 22650008 Email info@mirass.com Website www.mirask.com

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West Bengal Tel +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000341F

DOE NO MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/J5DA00

08/01/2024

MSKNB/FD/2023-24/12/F3103X

23/12/2023

23/12/2023 - 08/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

Identification of the personnel performing sampling by MSK.	Lalin Naik & Mukesh Highburu
7. Sampling Plan & Method used	IS 17614 (P-23) 2021
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chaîn maintained
5. Place of sampling	BBL-4327 Baitarani River Kilandra Village
4. Date of sampling	21/12/2023
Unique Identification of sample(if any)	NA .
2. Description of sample	SURFACE WATER
1. Group	Water & Residue in Water

Report No.: MSKPL/FD/2023-24/J5DA00

Sample No.: MSKNB/FD/2023-24/12/F3103X

RESULT

hemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/l	(S 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
В	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.84
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA NA

Statement of Conformity

END

Reviewed By

Square

Designation

Head Office:

Dr. Devottam Bartery Technical in charge Dr. Armwtya Kumar

Authorized Signatory

Square

Designation

Lab to charge

Shrach Certre (5th Floor), 748, A.J.C. Bose Road, Kolketa - 700016, West Bengal, Indus Tel. 91:33:40145000 / 22950007 Fax: 91:33:22650006 Emilit Wfo@mitrask.com Website , www.pitrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000341F

Doc No. MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/J5DA00

08/01/2024

Date: Sample No.:

MSKNB/FD/2023-24/12/F3103X

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of 23/12/2023 - 28/12/2023

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4327 Baitarani River Kilandra Village
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/J5DA00

Sample No.: MSKNB/FD/2023-24/12/F3103X

RESULT

licro Biology				
SI No.	Parameter	UOM	Method	Result
à	Total collform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	14

Opinion:

NA

Statement of Conformity

NA

END

Reviewed By

Signature

Dasignation.

Technical in charge

Authorized Signato

Designation

Tecrmical in charge

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The reserved part of sample(s) for chemical analysis (Non - penalisable sample(s) Food, Wister) shall be retained for 15 days from the date of issue of the Test Report. Penalisable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil Soild & Louid Waste) shall be retained for 15 days as per CPCB guideline & (All) 1 month from the date of face feel Report. The reserved part of sample(s) for Microbiological analysis (Non - pershable sample(s) Food. Sealed Water, Sealed food) shall be retained for 15 days from the date of sample of the Test Report.

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000796F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/X9DA0H Report No.:

17/01/2024 Date:

MSKNB/FD/2023-24/12/5S107G Sample No.:

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 17/01/2024 Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Chemical Discipline:

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(If any)	NA .
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4326 Sona River Kandra Village before confluence with Baitarni River
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/X9DA0H Sample No.: MSKNB/FD/2023-24/12/5S107G

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	1S 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	1S 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL 0.2)
В	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL.0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.7
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

Statement of Conformity

END -

Rayawad B.

Significate Mame

Dany Dr. Devottam Ban

Gupta Technical in charge Designation

Authorized Signatory

Signature

Designation Lab in charge

Head Office:

Shrach Centre (5th Floor), 748, A.J.C. Bose Road, Kokata - 700016: West Bengal, India. Tel: 91 33 40143000 / 2255000 Fax: 91 33 22650008. Email: info@mitrask.com Wildsite: www.mitrask.com

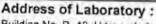
Page 1 of 2

TESTING . INSPECTION

Doc No. MSK/GEN/19/07

Doc No MSKIGEN/19/07





Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM) Joda West

Tel. +91 7044036120 Email udayanlab@mitrask.com





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ULR: TC-695024000000796F

TEST REPORT

Report No.:

MSKPL/FD/2023-24/X9DA0H

Date:

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/5S107G

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 28/12/2023 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4326 Sona River Kandra Village before confluence with Baitami River
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.: MSKPUFD/2023-24/X9DA0H

Sample No.: MSKNB/FD/2023-24/12/5S107G

RESULT

icro Biology				
SI No.	Parameter	шом	Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	9,3

Opinion:

NA NA

Statement of Conformity

END

Havewort By

Mr Sukanta Pal

Designation

Trichnical Michaege

Authorized Statuto

Signifure Name

Designation

Technical in charge

The results relate only to the liam(s) tested

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This Test Report shall not be reproduced except in full, without the permission of Mere 5.6. Private Limited
This reserved part of sample(s) for chemical analysis (Non - pershable sample(s) Food, Water) shall be retained 2 days.

from the date of Issue of the Test Report
The Jesseved part of sample(s) for sharings analysis (Soil, Soild & Liquid Waster) stall be retained for 15 days as per CPC8 guideline & (All) 1 month from the date of Issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - penshable sample(s) Food, Sealed Wilter, Samed food) shall be retained for 15 days from the date of eace of the Test Report.

Head Office:

Straigh Centre (5th Floor), 748, A.J.C. Bone Road, Kokuta-700016, West Bengal, India: Tel. 91 33 40143000 / 22050007 Fax - 91 33 22050008 Email info@mitrask.com Website - www.mitrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3. Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000340F

Doc No. MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/5MDA0V

08/01/2024

MSKNB/FD/2023-24/12/2F105H

23/12/2023

23/12/2023 - 08/01/2024 Permanent Facility

retmanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results

Water & Residue in Water
SURFACE WATER
NA NA
21/12/2023
BBL-4325 Pond water Near ST High School Bhuya Roida
(2-5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Lalin Naik & Mukesh Highburu

Report No.: MSKPL/FD/2023-24/5MDA0V

Sample No.: MSKNB/FD/2023-24/12/2F105H

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0 001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL.1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL.0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.7
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

--- END ----

Reviewed By

Designation

Signature (

Dr. Devotam Banener Dr.

Gupta Technical in charge

Dr. Amartya Kumar

Signature Name

Authorized Signatory

Designation

Lab in charge

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com





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ULR: TC-695024000000340F

Doc No. MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

AVPo. - Joda, Dist - Keonjhar, Odisha - 758034 India

Report No.: Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

23/12/2023 23/12/2023 - 28/12/2023

08/01/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

MSKPL/FD/2023-24/5MDA0V

MSKNB/FD/2023-24/12/2F105H

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4325 Pond water Near-ST High School Bhuya Rolda
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik & Mukesh Highburu

Report No.:

MSKPL/FD/2023-24/5MDA0V

Sample No.: MSKNB/FD/2023-24/12/2F105H

RESULT

licro Biology				
SI No.	Parameter	иом	Method	Result
1	Total coliform	MPN/100m1	Standard methods for the examination of water & waste water, 24th edth, 92218	17

Opinion:

NA

Statement of Conformity

NA

END

Reviewed By

Signature

Mr. Suxanta Patul

Technical In charge Designation

Authorized Signator

Somblee

Name

Designation

řecznical in charge

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The reserved part of sumple(s) for chemical analysis (Non - periphable sample(s) Food, Water) shall be retained for 15 days from the date of association from the Report. Periphable sample(s) and be retained 2 days. from the date of issue of the Test Report.

The reserved just of sample(s) for chamical analysis (Soil, Soild & Liquid Whale) shall be letained for 15 days as per CPCB guideline & (Air) 1 month from the date of resue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - pershable sample(s)) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of resue of the Test Report.

Head Office:

Streets Centre (5th Floor), 748, A.J.C. Bose Road, Kokata - 700016, West Bengal India Tel 91 33 40143000 / 22650007 Fax 91 30 22650008 Email info@mitrask.com Website www.mitrask.com

Dicc No. MSK/GEN/1907







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ULR: TC-695024000000795F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Address of Laboratory :

West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com

Building No. P- 48, Udayan Industrial Estate, 3 Pagladanga Road, Kolkata 700015

AvPo. - Joda, Dist. - Keonjhar, Odisha - 758034. India

TEST REPORT

Report No.:

Date:

MSKPL/FD/2023-24/NDDAOV

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/YUMF61

Date of receipt of sample: 23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 17/01/2024

Reference No. & Date :

Permanent Facility

3000156017/056, Date - 16/09/2023.

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	_
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4324Jalhari Nala Jurudi	
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-23) 2021	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/NDDA0V

Sample No.: MSKNB/FD/2023-24/12/YUMF61

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1,0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL-0 02)
6	Cyanide as CN	rng/t	IS 3025 (Part 27) Sec1	BDL(DL 0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+5)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL 0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.98
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion :

NA NA.

Statement of Conformity

END

Havewed By

Skorvature

Dr. Devottam Ban

Technical In charge

Authorized Signatory

Signature

Designation Lab In charge

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel: +91 7044036120 Email: udayanlab@mitrask.com





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Dor No. MSK/GEN/19/07

TESTING - INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/NDDAOV

Date :

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/YUMF61

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 28/12/2023 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 15/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4324Jalhari Nala Jurudi
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/NDDA0V

Sample No.: MSKNB/FD/2023-24/12/YUMF61

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
4	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	26

Opinion:

NA

Statement of Conformity

NA

END

Fleverwed By

Signature

Mr. Sukanta Patri

Technical In charge.

Authoritied Signistory

Signature

Technical in charge

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This fost Report shall not be reproduced except in full, without the permission of Mitre S.K. Private Limited
This fost-red part of sample(s) for chemical analysis (Non - pershable sample(s) shall be retained 2 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days.

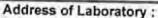
The reserved part of sample(s) for chemical analysis (year) - pershades sample(s) shall be intered for 15 days at per CPCB guideline & (Av). I month from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Weste) shall be intered for 15 days at per CPCB guideline & (Av). I month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sasked Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

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Tel.: +91 7044036120

Email: udayanlab@mitrask.com





Doc No MSK/GEN/19/07

TESTING . INSPECTION

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ULR: TC-695024000000794F

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date: 17/01/2024 Sample No.:

Date of receipt of sample: 23/12/2023

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/FD/2023-24/HNDA0Z

MSKNB/FD/2023-24/12/V1YFAR

23/12/2023 - 17/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4323 Palasa Kha Village Pond	
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-23) 2021	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No. : MSKPL/FD/2023-24/HNDA0Z

Sample No.: MSKNB/FD/2023-24/12/V1YFAR

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/t	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL.0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	0.56
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.95
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA.

Statement of Conformity

END -

Reviewed By

Signature

Dr. Devottam Ban rjee Dr. Ameriya Kumar

Designation

Technical In charge

Authorized Signalery

Signature

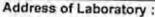
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Designation:

Each to charge

DOE NO. MSK/GEN/19/07





Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

Tel :+91 7044036120

Email: udayanlab@mitrask.com





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ULR: TC-695024000000794F

TEST REPORT

Report No.:

MSKPL/FD/2023-24/HNDA0Z

Date:

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/V1YFAR

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 28/12/2023

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA .	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4323 Palasa Kha Village Pond	
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/HNDA0Z

Sample No.: MSKNB/FD/2023-24/12/V1YFAR

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
ī	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edin, 92218	22

END -

Opinion:

NA

Statement of Conformity

Hovarwed Dy

Mr. Sukanta Palui

Designation

Technical In charge

Authorized Signator

Semiliae

Designation

Technical in charge

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The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Weste) shall be retained for 15 days as per CPGB guideline & (Air.) 1 month from the date of issue of iss

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Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel. +91 7044036120 Emall: udayanlab@mitrask.com

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West





DOC NO. MSKIGEN/19/07

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ULR: TC-695024000000793F

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TC-6950

TEST REPORT

Report No. :

MSKPL/FD/2023-24/HZDA0Q

Date :

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/UZXFBB 23/12/2023

Date of receipt of sample: Date(s) of performance:

23/12/2023 - 17/01/2024

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	_
2. Description of sample	SURFACE WATER	_
3. Unique Identification of sample(if any)	NA NA	_
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4322 Tindhana Down Stream Baltarani River	_
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	-
7. Sampling Plan & Method used	IS 17614 (P-23) 2021	-
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudher Das	

Report No.: MSKPL/FD/2023-24/HZDA0Q

Sample No.: MSKNB/FD/2023-24/12/UZXFBB

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL-0 001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL-1 0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
.7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	(S 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL.0.0002
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	1.01
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

NA

Statement of Conformity

--- END -----

Reviewed By

Signature

De Devottam Baneriee. Dr Ameriya Kumai Gusta

Designation Technical In charge

Australed Signalory

Signature

Hemi

Designation

Lake on crounge

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel. +91 7044036120

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd. (MGM) Joda West

Email: udayanlab@mitrask.com





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ULR: TC-695024000000793F

Doc No. MSK/GEN/19/07

TESTING . INSPECTION

TEST REPORT

Report No. :

MSKPL/FD/2023-24/HZDA0Q

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/UZXFBB

Date of receipt of sample:

23/12/2023

Date(s) of performance:

23/12/2023 - 28/12/2023

Location of performance of

Permanent Facility

Reference No. & Date:

3000156017/056, Date - 15/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique identification of sample(if any)	NA .
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4322 Tindharia Down Stream Bartarani River
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/HZDA0Q

Sample No. : MSKNB/FD/2023-24/12/UZXFBB

RESULT

Aicro Biology				
SI No.	Parameter	UOM	Method	Result
1	Total coliform	MPN/100m1	Standard methods for the examination of water & waste water 24th edin, 9221B	7,8

Opinion:

NA NA

Statement of Conformity

END.

Revenued By

Signature

Mr. Schanta Palui

Designation Technical In charge Authorized Signator

Signature

Name.

Designation

Technical in onarge

The results relate only to the item(s) tested:

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The reserved part of sample(s) for chemical analysis (Non - penahable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Penahable sample(s) shall be retained 2 days.

from the date of issue of the Test Report.
The reserved part of sample(s) for chemical analysis (Ste, Solid & Liquid Walle) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - pershaple sample(s) Food, Sealed Water, Sealed tood) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Shrachi Centra (5th Floor), 749, A.J.C. Base Road, Koksta - 700016, Wast Bangol, India Tel 91 33 40143000 / 22650007 Fax 91 33 22650008 Email info@mitrask.com Website www.marask.com

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Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

West Bengal

Tel.: +91 7044036120

Email udayanlab@mitrask.com





ULR: TC-695024000000792F

Dod No MSKOGEN/1907

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/TYDA08

17/01/2024

MSKNB/FD/2023-24/12/P1DF9G

23/12/2023

23/12/2023 - 17/01/2024

Permanent Facility

3000155017/056, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	21/12/2023
5. Place of sampling	88L-4321 Tindharia Up Stream Baitarani River
Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das

Report No. : MSKPL/FD/2023-24/TYDA08

Sample No.: MSKNB/FD/2023-24/12/P1DF9C

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	
2	Boron as B	mg/t	IS 3025 (Part 2)	BDL(DL:0.005)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.25) BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL.0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0:02)
7	Fluoride as F	rng/l	IS 3025 (Part 50)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	rmg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL(DL:0,0002)
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	0.77 BDL(DL:0.02)

Opinion:

Statement of Conformity NA

END

Hoviewed By.

Signature

Dr Doyottam Barre

Designation

Authorized Signatory

Signature

Desgrimon

Lab in charge

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

AVPo - Joda, Dist - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM)_Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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Doc No : MSK/GEN/19/07

TEST REPORT

Report No.:

MSKPL/FD/2023-24/TYDA08

Date:

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/P1DF9C

Date of receipt of sample: Date(s) of performance:

23/12/2023

Location of performance of

23/12/2023 - 28/12/2023

Reference No. & Date:

Permanent Facility

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4321 Tindharia Up Stream Baltarani River	_
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/TYDA08

Sample No.: MSKNB/FD/2023-24/12/P1DF9C

RESULT

dicro Biology				
SI No.	Parameter	UOM	Method	Result
4	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	11

Opinion:

NA.

Statement of Conformity

NA

END -

Reviewed By

Mr. Sukanta Palu

Technical In course Designation

Authorized Signalary

Designation

Technical in charge

The results relate only to the items) tested.

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The reserved part of sample(s) for chemical analysis (Non - penchable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Toot Report. Penchable sample(s) at all be retained 2 days.

from the date of listue of the Test Report.
The reserved part of sample(s) for sperical analysis (Sol. Solid & Uquid Waste) shall be interied for 15 days as per CPCB guideline & (Ar) 1 month from the date of assure of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of assured this Test Report.

Shrachi Centre (5th Floor), 748, A.J.C. Bose Road, Kolkata - 700015, West Bengal, India Tell - 91 33 40143000 / 22650007 Fax - 91 33 22650000 Email info@mdrask.com Website www.mirresk.com

Address of Laboratory:

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Tel. +91 7044036120

Email: udayanlab@mitrask.com





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Doc No. MSKIGEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

At/Po - Joda, Dist - Keonihar, Odisha - 758034 India

Report No.:

Date:

MSKPL/FD/2023-24/S4DA0Y

08/01/2024

Sample No. :

MSKNB/FD/2023-24/12/N2DF5B

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 08/01/2024

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA NA
21/12/2023
BBL-4320 Gurubeda Baitarani River
(2 - 5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/S4DA0Y

Sample No.: MSKNB/FD/2023-24/12/N2DF5B

RESULT

SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boton as B	mg/l	IS 3025 (Part 2)	BDL(DL:0:25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL 1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL-0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.62
13	Zinc as Zn	mg/l	(S 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA NA

Statement of Conformity

END -

Reviewed By

Signature

Designation

Dr. Devotam Ban ryee, Dr. Amartya Kumar

Technical In charge

Authorized Signatory

Designation

Lato to etiarga

Doc No. MSK/GEN/19/07





TC-6950



ULR: TC-695024000000791F

Tel. +91 7044036120 Email: udayanlab@mitrask.com

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Address of Laboratory :

West Bengal

Building No. P- 48, Udayan Industrial Estate.

3. Pagladanga Road, Kolkata 700015

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

MSKPL/FD/2023-24/S4DAQY Report No. :

Date: 17/01/2024

Sample No.: MSKNB/FD/2023-24/12/N2DF5B

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 28/12/2023 Location of performance of Permanent Facility

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA NA	_
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4320 Gurubeda Baltarani River	
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/S4DA0Y

Sample No.: MSKNB/FD/2023-24/12/N2DF5B

RESULT

ficro Biology				
SI No.	Parameter	NOM	Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edin, 92218	11

Opinion:

NA

Statement of Conformity

NA

END -

Re-mond By

3/grature

Mr. Scharda Polici

Designation Technical In charge Authorized Signato

Signature

Designation

Technical in charge

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The reserved part of sample(s) for chemical analysis (Non--pershabite sample(s) Food. Water) shall be retained for 15 days from the pate of issue of the Test Report. Flanshabite sample(s) shall be retained 2 days.

The reserved part of sample(s) for chemical enalysis (Sol). Solid & Liquid Weste) shall be retained for 15 days as per CPCB guideline & (Air). I month from the date of usue of the Test Report. The reserved part of sample(s) for Microbiological analysis (Non - penahable sample(s) Food. Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Address of Laboratory:

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Name & Address of Customer:

At/Po. - Joda, Dist. - Keonihar, Odisha - 758034 India

Tata Steel Ltd.(MGM) Joda West

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TEST REPORT

Report No.:

MSKPL/FD/2023-24/53DA0F

Date:

08/01/2024

Sample No.:

MSKNB/FD/2023-24/12/LD0F8J 23/12/2023

Date of receipt of sample: Date(s) of performance:

23/12/2023 - 08/01/2024

Location of performance of

Permanent Facility

Reference No. & Date:

3000156017/056, Date - 15/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA NA	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4319 Pichlaghat Khorbandg Down Stream	
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-23) 2021	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

MSKPL/FD/2023-24/53DA0P Report No.:

Sample No.: MSKNB/FD/2023-24/12/LD0F8J

RESULT

Chemical Che				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/i	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL 0.01)
9	Lead as Pb	mg/I	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/i	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	rng/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	0.85
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL.0.02)

Opinion:

NA

Statement of Conformity

END

Reviewed By

Signature Name

Designation

1 Myunad 60 Dr. Devottem Barerjee, Dr. Amartya Kumar

Tectorical In charge

Authorized Significal

Signature

Mornin.

Designation

Head Office:

Shrach Centre (5th Floor) 748. A.J.C. Boso Road, Kritists - 700016, West Bengal, India, Tel. 91.33.40143000 / 22650007 Fax: 91.33.22650008 Email: info@mitrass.com Websile: www.mitrask.com



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Tel.: +91 7044036120 Email: udayanlab@mitrask.com





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TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/53DA0P Report No. :

17/01/2024 Date:

MSKNB/FD/2023-24/12/LD0F8J Sample No.:

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 28/12/2023

Location of performance of Permanent Facility Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4319 Pichlaghat Khorbandg Down Stream
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7. Sampling Plan & Method used	IS 17614 (P-25) 2022
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/53DA0P

Sample No.: MSKNB/FD/2023-24/12/LD0F8J

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	17

Opinion:

NA

Statement of Conformity

END

Roysewood By

Bionative.

Name

Mr. Samertin Paid I

Technical in charge Designation

Authorized Signator

Signature

Name

Description

Technical in charge

The results relate only to the dem(s) tested

The missing relate ency to the among a teased. This Test Report shall be reproduced except in full, without the permission of Mitrix S.K. Private Limited.

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Water) shall be related for 15 days as per CPCB guidaline & (Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - pershable sample(s) Food, Soiled Water, Sealed food) shall be retained for 16 days from the date of issue of the Test Report.

Head Office:

Shrachi Centre (5th Floor), 748, A.J.C. Bose Roatt, Kolkata - 700018, West Bengal, India Tel: 91.33.40143000 / 22650007 Fax: 91.33.22650006 Email: info@mitrask.com Websits: www.infrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120

Email: udayanlab@mitrask.com





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Doc No MSK/GEN/19/07

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TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

MSKPL/FD/2023-24/BZDA09 Report No. :

08/01/2024 Date:

MSKNB/FD/2023-24/12/1PDF73. Sample No.:

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 08/01/2024 Permanent Facility Location of performance of

Reference No. & Date: 3000156017/056, Date - 16/09/2023

Chemical Discipline:

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water
2. Description of sample	SURFACE WATER
3. Unique Identification of sample(if any)	NA
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4318 Pichlaghat Pump House Up Stream
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained
7, Sampling Plan & Method used	IS 17614 (P-23) 2021
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/BZDA09

Sample No.: MSKNB/FD/2023-24/12/1PDF73

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL;1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0,02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0,02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL.0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL.0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
-11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL.0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3- B	BDL(DL:0.4)
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

END.

Revenued By

Signature teame

Designation

De Barryles.

Or Devotten Ban jee, Dr. Amartya Kumar

Technical In change

Authorized Signatory

Signature

Name

Венфлекоп

tino in charge

Head Office:

Shrach Centre (5th Floor), 74B, A.J.C. Beite Road, Kolketa - 700016, West Bengal, India, Tel. 91 33 401430007 23550007 Fax: 91 33 22550008 Email: info@mitrask.com Website: www.matrisk.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po - Joda, Dist - Keonjhar, Odisha - 758034 India

Tata Steel Ltd (MGM)_Joda West

Tel. +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000789F

Doc No. MSK/GEN/19/07

TESTING # INSPECTION

TEST REPORT

Report No.:

MSKPL/FD/2023-24/BZDA09

Date:

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/1PDF73

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of 23/12/2023 - 28/12/2023

Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water	
2. Description of sample	SURFACE WATER	
3. Unique Identification of sample(if any)	NA .	
4. Date of sampling	21/12/2023	
5. Place of sampling	BBL-4318 Pichlaghat Pump House Up Stream	
6. Environmental conditions during sampling & Transport	(2-5) deg C Cold chain maintained	
7. Sampling Plan & Method used	IS 17614 (P-25) 2022	
8. Identification of the personnel performing sampling by MSK	Lalin Naik, Dhambrudhar Das	

Report No.: MSKPL/FD/2023-24/BZDA09

Sample No.: MSKNB/FD/2023-24/12/1PDF73

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
13	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 92218	14

END

Opinion:

NA NA

Statement of Conformity

Stowwwed By

Signature

Designation

Technical in charge

Authorized Sep

Signatu/e

Designation

Technical in charge

The results relate only to the item(s) tested.

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The reserved part of sample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days. from the date of issue of the Test Report.

The reserved part of sample(s) for characal analysis (Soil Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perchable sample(s) Food, Sealed Waste, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Stracti Centre (5th Floor), 748, A.J.C. Bose Road, Roleata - 700016. West Bengal India. Tel. 91 33 40143000 / 22650007 Fax: 91 33 22650008 Email info@mirask.com/Website www.in/trask.com

Address of Laboratory:

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120

Email udayanlab@mitrask.com





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ULR: TC-695024000000788F

TEST REPORT

Name & Address of Customer : Report N

Tata Steel Ltd (MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Report No.: MSKPL/FD/2023-24/70DA0F

Date: 08/01/2024

Sample No.: MSKNB/FD/2023-24/12/083F41

Date of receipt of sample: 23/12/2023

Date(s) of performance: 23/12/2023 - 08/01/2024
Location of performance of Permanent Facility

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA NA
21/12/2023
BBL-4317 Keth-Hutting after H- Quarry Down Stream
(2 - 5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/70DA0F

Sample No.: MSKNB/FD/2023-24/12/083F41

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
4	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
2	Boron as B	mg/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL 0.001)
4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL:1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	rng/l	IS 3025 (Part 60)	BDL(DL 0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0,01)
9	Lead as Pb	mg/l	IS 3025 (Part 2)	BDL(DL:0.005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
11	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0,0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	BDL(DL:0.4)
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0:02)

Opinion:

NA

Statement of Conformity

____END ----

Reviewed By

Signature Name Dr. Devotteri Bapersea, Dr. Ameriya Kumar

Designation - Technical in charge

Authorized Bignetory

Significa

Marrie

Desgration

Dr. Southyedella Must cookings Cab in disarps

Head Office:

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Page 1 of 2

TESTING - INSPECTION

Doc No MSKIGENISOT

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tala Steel Ltd. (MGM)_Joda West

West Bengal

Tel : +91 7044036120

Email: udayanlab@mitrask.com





Scan for Portal

ULR: TC-695024000000788F

TEST REPORT

Report No.:

Date:

MSKPL/FD/2023-24/70DA0F

17/01/2024

Sample No.:

MSKNB/FD/2023-24/12/083F41

Date of receipt of sample:

23/12/2023

Date(s) of performance:

23/12/2023 - 28/12/2023

Location of performance of Reference No. & Date :

Permanent Facility 3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA NA
21/12/2023
BBL-4317 Keth-Hutting after H- Quarry Down Stream
(2 - 5) deg C Cold chain maintained
IS 17614 (P-25) 2022
Lalin Naik, Dhambrudhar Das

Report No.: MSKPL/FD/2023-24/70DA0F

Sample No.: MSKNB/FD/2023-24/12/083F41

RESULT

Micro Biology				
SI No.	Parameter	UOM	Method	Result
1	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	14

Opinion:

NA

Statement of Conformity NA

END -

Reviewed by

Signature

Technical in charge

Authorous Signa

Name

Technical In charge

The results relate only to the item(s) tested.

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The reserved part of sample(s) for chemical analysis (Nor - perishable sample(s) Food. Wister) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days.

The reserved part of sample(s) for chemical analysis (Soil, Solid & Liquid Weste) shall be retained for 15 days as par CPCB guideline & (Av) 1 month from the date of issue of the Test Report. The reserved part of sample(s) for Microbiological enalysis (Non - purishable sample(s) Food, Sessed Water, Sealed food) shall be retained by 15 days from the date of issue of the Test Report.

Head Office:

Strachi Centre (5th Floor), 748, A.J.C. Bose Road, Kolkata -700016. West Bengat, India. Tel. 91.33.401430007.2350007.Fux: 91.33.23500008. Email: info@mitrask.com Website: www.instrask.com

Page 1 of 1

TESTING + INSPECTION

DOC NO MINIGENITURY

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Tel.: +91 7044036120

Email: udayanlab@mitrask.com





ULR: TC-695024000000787F

Doc No MSK/GEN/19/07

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

Al/Po - Joda, Dist - Keonjhar, Odisha - 758034 India

Report No.:

Date:

Sample No.: Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date:

Discipline:

MSKPL/FD/2023-24/BQDA0N

08/01/2024

MSKNB/FD/2023-24/12/TACF45

23/12/2023

23/12/2023 - 08/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Water & Residue in Water
SURFACE WATER
NA .
21/12/2023
BBL-Keth -Hulting before H-Quarry Up Stream
(2 - 5) deg C Cold chain maintained
IS 17614 (P-23) 2021
Dhambrudar Das & Lelin Nak

Report No.: MSKPL/FD/2023-24/BQDAGN

Sample No.: MSKNB/FD/2023-24/12/TACF45

RESULT

Chemical				
SI No.	Parameter	UOM	Method	Result
1	Arsenic as As	mg/l	IS 3025 (Part 2)	BDL(DL 0.005)
2	Boron as B	rng/l	IS 3025 (Part 2)	BDL(DL:0.25)
3	Cadmium as Cd	mg/l	IS 3025 (Part 2)	BDL(DL:0.001)
.4	Colour	Hazen	IS 3025 (Part 4)	BDL(DL1.0)
5	Copper as Cu	mg/l	IS 3025 (Part 2)	BDL(DL 0.02)
6	Cyanide as CN	mg/l	IS 3025 (Part 27) Sec1	BDL(DL:0.02)
7	Fluoride as F	mg/l	IS 3025 (Part 60)	BDL(DL:0.2)
8	Hexavalent Chromium (as Cr+6)	mg/l	IS 3025 (Part 52) Sec2	BDL(DL:0.01)
9	Lead as Pb	rng/l	IS 3025 (Part 2)	BDL(DL:0 005)
10	Manganese as Mn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)
31	Mercury as Hg	mg/l	IS 3025 (Part 48)	BDL(DL:0.0002)
12	Nitrate as NO3	mg/l	APHA (24th EDITION) 4500-NO3-B	0.48
13	Zinc as Zn	mg/l	IS 3025 (Part 2)	BDL(DL:0.02)

Opinion:

NA

Statement of Conformity

NA

END -

Reviewed By:

Bignatura Nigna

Deterution

withatin. Dr Devotam Bane to Dr. Ameriya Kuma

Technical in charge

Authorized Signatory

Signature

Name

Designation

Lab in charge

Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

At/Po - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM) Joda West

Tel.: +91 7044036120

Email udayanlab@mitrask.com





Scan for Portal

ULR: TC-695024000000787F

Doc No MSK/GEN/15/07

TEST REPORT

Report No.:

MSKPL/FD/2023-24/BQDA0N

Date:

17/01/2024

Sample No. :

MSKNB/FD/2023-24/12/TACF45

Date of receipt of sample:

23/12/2023

Date(s) of performance: Location of performance of

23/12/2023 - 28/12/2023

Reference No. & Date :

Permanent Facility

3000156017/056, Date - 16/09/2023

Discipline:

Biological

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Water & Residue in Water			
2. Description of sample	SURFACE WATER			
3. Unique Identification of sample(If any)	NA NA			
4. Date of sampling	21/12/2023			
5. Place of sampling	BBL-Keth -Hutting before H-Quarry Up Stream			
6. Environmental conditions during sampling & Transport	(2 - 5) deg C Cold chain maintained			
7. Sampling Plan & Method used	IS 17614 (P-25) 2022			
8. Identification of the personnel performing sampling by MSK	Dhambrudar Das & Lelin Naik			

Report No.: MSKPL/FD/2023-24/BQDA0N

Sample No.: MSKNB/FD/2023-24/12/TACF45

RESULT

Micro Biology							
SI No.	Parameter	NOM	Method	Result			
4	Total coliform	MPN/100ml	Standard methods for the examination of water & waste water, 24th edth, 9221B	9.2			

Opinion :

NA NA

Statement of Conformity

END -

Reviewed By

Signature

Mr. Sukantii Palu

Designation Trefrical in charge Authorized Signato

Deagnation

Erichnical lividherow

The Test Record shall not be reproduced except in full, without the permission of Milin S.K. Private Limited
The reserved part of samplers for chemical analysis (Non - pershable sample(s) Food. Water) shall be retained to 15 days from the date of lessue of the Test Report. Persistable sample(s) shall be retained 2 days.

From the date of lessue of the Test Report.

The reserved part of sample(s) for chemical employs (Soil, Solid & Liquid Wester) shall be relained for 15 days as per CPCB guideline & (Alf) 1 month from the date of issue of the Test Report. The reserved part of sample(s) for Microbiological analysis (Nors - penshabio sample(s) Food, Sealed Water, Seased load; shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

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Page 1 of 1

Mitra S. K. Private Limited

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Report No. MSKGL/ED/202	Date: 12.01.2024	
AN	ALYSIS REPORT OF WASTE/EFFLUENT WATER	
Name of the Client	M/s. TATA STEEL LIMITED	
Name of the Mines	BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	26.12.2023	
Location	Bamebari Oil Separation Water Near Garage (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER 15: 2490

SL No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCH	Results
1	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (24th Edition), 5210B	30	4.8
Z	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 2340 C	-	35
3	Chemical Oxygen Demand (COD)	mg/l	APHA (24th Edition), 5220B	250	22
4	Chloride (as Cl.)	mg/l	APHA (24th Edition), 4500-CLB	-	18.2
5	DO	mg/l	APIIA 24th Edition, 2023 4500-D-1:/G	-	4.6
ò	Electrical conductivity	us/cm	APHA (24th Edition), 25108	-	337
7	Iron (as Fe)	(as Fe) mg/l A		3	0.61
fl.	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 Mg)	-	13
9	Odour	mg/l	APRA (24th Edition), 21508	Agreeable	Agreeable
10	Oil and Grease	mg/l	APHA (24th Edition), 55200	10	₹5.0
11	Phenolic Compounds (as C6H5OH)	mg/l	APHA (24th Edition), 5530C (Chieroform Extraction)	1	<0.001
12	Salinity	PSU	APNA (24th Edition), 2520B	-	0,172
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 S042-E	-	14.2
14	Total Alkalinity	mg/l	APHA (24th Edition), 52108	~	140
15	Total Dissolved Solids (as TDS)	mg/l	APHA (24th Edition), 2540C	-	144
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	144
17	Total Suspended Solid (as TSS)	mg/I	APHA (24th Edition),2540D	50/100	69.8
18	pH value at 23.7 deg C	None	APHA 24th Edition, 2023 4500-H+B	5.5-9,0	6.96

Checked by: W

Por Mitra S. K. Private Limited
Authorized Signatory

Mitra S. K. Private Limited

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W www.mitrask.com

Report No. MSKGL/ED/202	3-24/004320	Date: 12.01.2024
AN		
Name of the Client	ALYSIS REPORT OF WASTE/EFFLUENT WATER M/s. TATA STEEL LIMITED	
Name of the Mines	BAMEBARI IRON & MANGANESE MINES (BIMM)	
Date of sampling	26.12.2023	
Location	Bamebari STP Inlet (BIMM)	

CHEMICAL ANALYSIS OF WATER AS PER IS: 2490

SL. No.	Test Parameters	Unite	Method	Max. Tolerance Limit as per CPCB	Results
1	Biochemical Oxygen Demand (as BOD)	mg/T	APRA (24th Edition), 5210R	30	16
2	Calcium (as CaCo3)	mg/l	APHA (24th Edition), 234tf C	-	40
3	Chemical Oxygen Demand (COD)	mg/l	APRA (24th Edition), 52208	250	84
4	Chloride (as CI)	ing/f	APHA (24th Edition), 4500 -CI B	_	38.2
5	DO	mg/l	APILA 24th Edition, 2023 45(N)-O-C/G	-	3.8
6	Electrical conductivity	us/cm	APHA (24th Edition), 2510B	12	495
7	Iron (as Fe)	mg/l	APHA (24th Edition), 3500 Fe B	3	17
В	Magnesium (as Mg)	mg/l	APHA (24th Edition), 3500 MgB	-	12
g	Odour	mg/l	APHA (24th Edition), 2150B	Agreeable	Disagreeat
10	Oil and Grease	mg/1	APHA (24th Edition), 5520B	10	45.0
1.1	Phenolic Compounds (as C6H5OH)	mg/I	APHA (24th Edition), 5530C (Cidoroform Extraction)	1	<0.001
12	Salinity	PSU	APHA (24th Edition), 25208		0.255
13	Sulphate (as SO4)	mg/l	APHA (24th Edition), 4500 SO42-E	-	18
14	Total Alkalinity	mg/l	APUA (24th Edition), 52188		188
15	Total Dissolved Solids (as TDS)	ing/1	APHA (24th Edition), 2540C	_	152
16	Total Hardness (as CaCO3)	mg/l	APHA (24th Edition), 2340 C	-	152
17	Total Suspended Solid (as TSS)	mg/l	APRA (24th Edition),2540D	50/100	420.9
18	pH value at 23.7 deg C	None	APHA 24th Edition, 2023 4500-11+8	5,5-9,0	7.09

Checked by: 10

For Mitra S. K. Private Limited -Authorized Signatory



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No.	: ALPL/30112023/	1-20A dated	30/11/20	023	Page I o	f 3
Issued To: M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	22/11 W.O.	/22112023/ENV-283-1 /2023 - 4700098928/962 :2022	Analysis Start 23/11 Analysis End 29/11 Report Issue Date 30/11 Sample Category Water	
Sample Name Drinking Water	Sample Source Inlet Water	Sample Particular Sample Code-DW-		Sample Condition Sealed & Ice Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		The second secon	Sampling Date Sampling Time 16/11/2023 11.45am to 2.50 pm		Sampling Location JWIMM WTP Inlet (bichakundi	
		77.0	ere nueva	111 700		

			TEST RESULTS		WESTER IS IT HE	-12:13:33:33:33
S.N.	Test Parameter	Measurement Unit	t Test Method	Requirem IS 1050 (Drinking Wate Including Ame	Test Result	
				Acceptable Limit	Permissible Limit #	
-1	Biological Testing I. Water				210000	
1-	Escherichia ordi	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing I. Water					
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	72.81
3	Anionic surface active agents. (as MBAS)	mg/l	1S 13428 ; (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)
4	Colour	Hazen units	1S 3025 (Part 4) : 2021	5	15	1
5	Cyanide (as CN)	mg/l	1S 3025 (Part 27); 1986	0.05	No relaxation	BDL (DL - 0.005)
6	Chloride (as Cl)	mg/l	1S 3025 (Part 32):1988	250	1000	32.58
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	24.93
8	Free residual chlorine	mg/l	15 3025 (Part 26) : 2021	Min. 0.2		BDL (DL-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL (DL -0.1)
10	Magnesium (as Mg)	mg/l	15 3025 (Part 46) : 1994	30	100	7.64
11	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	BDL(DL-2)
12	Odour		1S 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
13	pH	1 - R - 1	IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	7.13 at 25°C
14	Phenolic compounds (as CaH ₂ OH)	mg/l	IS 3025 (Part 43) : 2022	0,001	0.002	BDL (DL - 0.001)
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24): 2022	200	400	9.26
16	Taste		IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16): 1984	500	2000	294
18	Turbidity	NTU	IS 3025 (Part 10): 1984	1	5	0.3

IS 3025 (Part 21): 2009

Please refer last Page for Note and Remarks.

Verified By

19 Total hardness (as CnCΩ₁)

Spenal Raut Deputy Technical Manager **Authorized Signatories**

200

Pooja Kathane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

93.69

600



Anacon Laboratories Pvt. Ltd. Nagpur Lab

♥ FP 54, 35,Food Park, Five Star Industrial Estate.
MIDC Busbon, Nagpur, Maharashtra, India - 441 122

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• https://www.anaconlaboratories.com

Test Report

Test Report No.: ALPL/30112023/ Issued To: M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	30/11/2023 ALPL/22112023/ENV-283-1 22/11/2023 W.O 4700098928/962 22:03:2022	Page 2 of Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 29/11/2023 30/11/2023 Water
Sample Name	Sample Source	Sample Particular		Quantity Received	
Drinking Water	Inlet Water	Sample Code-DW-		5.0 Ltr & 250 ml	
Sample Collected By		Sampling D	The second secon	Sampling Location	
Anacon Representative		16/11/202		JWIMM WTP Inlet (bichakundi)	

			TEST RESULTS			noce (eschakuba)
5.N.	Test Parameter	Measurement Unit	Test Method	Drinking Wat Including A	Test Result	
				Acceptable Limit	Permissible Limit #	
n	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	15-3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	(S 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2) 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	(S 3025 (Part 2) : 2019	1.0	No relaxation	0.07
27	Lead (as Ph)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL + 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Se)	nig/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	15 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic bydrocarbon (PAH)	μg/1	ANI/7.2/RES/01: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/l	ANtr/7.2/RES/06: 2018	1	No relaxation	BDL (DL - 0.001)

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey Deputy Technical Manager Swati Gondhalekur Deputy Technical Manager Authorized Signatory



Anacon Laboratories Pvt. Ltd. Nagpur Lab

PFP-34, 35,Food Park, Five Star Industrial Estate,
 MIDC Builbon, Nagpur, Maharashtra, India - 441 122
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Test Report

Test Report No.	ALPL/30112023/	1-20A dated	30/11/2	023	Page 3 o	F 3
Issued To ; M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	22/I W,O	L/22112023/ENV-283-1 1/2023 - 4700098928/962 3.2022	Analysis End 29 Report Issue Date 30	23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Drinking Water	Sample Source Inlet Water	Sample Particulars Sample Code-DW-		Sample Condition Sealed & Ice Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative			Sampling Date Sampling Time 16/11/2023 11:45am to 2:50 pm		Sampling Location JWIMM WTP Inlet (bichakundi)	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 10 (Drinking Wa	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		
				Acceptable Limit	Permissible Limit #		
35	Pesticide Residues Organochlori				and the second		
1	Alpha-HCH	ng/i	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.01)	
- U	Beta HCH	pp1	ANtr/7.2/RES/01: 20	2,91	No relaxation	BDL (DL - 0,03)	
111	Gamma - HCH (Lindane)	100/7	ANI/7 2/RES/01-20	18 2	No relaxation	BDL (DL - 0.03)	
IV	Delta- HCH	ив/1	ANIr/7.2/RES/01-20	18 0.04	No relaxation	HDL (DL - 0.03)	
V.	Alachlor	0.2/1	ANti/7/2/RES/01: 20	18 20	No relaxation	BDL (DL = 0.03)	
VL	Aldrin	µg/l	ANtr/7 2/RES/01: 20	18 0.03	No relaxation	BDL (DL - 0.03)	
vii	Dieldrin	ng/i	ANtr/7-2/RES/01: 20	E.0.03	No relaxation	BDL (DL - 0.03)	
Mili	Butachlor	PB/I	ANG/7.2/RES/01: 20	18 125	No relaxation	BDL (DL - 0.03)	
18	p.p -DDE	μg/l	ANtr/7.2/RES/01 20	18 1	No relaxation	BDL (DL - 0.03)	
X-	o,p'-DDE	ng/l	AND/T 2/RES/01 20	18	No relaxation	BDL (DL + 0.03)	
XI	P.P -DDD	ив/т	AND/7.2/RES/01: 20		No relaxation	BDL (DL + 0.03)	
xii	o,p'-DDD	µg/l	ANtr/7-2/RES/01-20	18	No relaxation	BDL (DL - 0.03)	
Ntii	o.p - DDT	pg/l	ANn/7.2/RES/01.20	18 1	No relaxation	HDL (DL - 0.03)	
XIV	p.p. DOT	ug/T	ANG/7 2/RES/01: 20	18 1	No relaxation	BOL (DL - 0.03)	
XV.	Manacrotophos	µg/l	ANtt/7.2/RES/01/20	18	No relavation	BDL (DL - 0.03)	
XVI	Atrazine	ug/f	ANtr/7.2/RES/01.20	18 2	No relaxation	BDL (DL - 0.03)	
XVII	Parathion methyl	0.9/1	ANn/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)	
NVIII	Puraoxon methyl	ug/l	ANIt/7 2/RES/01: 20		The resemble	BDL (DL - 0.03)	
Sile	Malathion	µg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)	
XX	Malaoxon	pg/l	ANtr/7.2/RES/01: 20	140	THO TELEVISION	BDL (DL - 0.03)	
XXI	Ethion	µg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)	
XXII	Chlorpyrifos	ид/1	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)	

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with 15:10500:2012, for tests conducted Only.

Verified By

Swati Gondhalekar Deputy Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

---- End of Report----



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Issued To : M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	22/11/	4700098928/962	Page 1 o Analysis Start Analysis End Report Issue Date Sample Category	23/11/202/ 29/11/202/ 30/11/202/ Water
Sample Name Sample Source Drinking Water Outlet Water		Sample Particular Sample Code-DW-		Sample Condition Scaled & Ice Preserved	Quantity Received 5.0 Ltr & 250 ml	
11.000.00	Representative	Sampling D 16/11/202	ate	Sampling Time 11.45am to 2.50 pm	Sampling Lo	cation

			TEST RESULTS		3 WINN OUTE	(+-spinoranion)
S.N.	Test Parameter	Measurement Unit	nt. Test Method	IS 1050 (Drinking Wate	ent as per 0 : 2012 r Specifications) endment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
1	Biological Testing 1. Water					
1	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing L. Water					
2	Alkalinity (as CaCO ₁)	mg/l	IS 3025 (Part 23) : 1986	200	600	28.46
3	Anionic surface active agents (as MBAS)	mg/l	1S 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)
4	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1
5	Cyanide (as CN)	mg/l	1S 3025 (Part 27) 1986	0.05	No relaxation	BDL (DL - 0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	18.32
7	Calcium (as Ca)	mg/l	1S 3025 (Part 40) : 1991	15	200	21.94
8	Free residual chloring	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL - 0.1)
9	Fluoride (as F)	mg/l	1S 3025 (Part 60) : 2008	1.0	1.5	BDL (DL-0.1)
10	Magnesium (as Mg)	mg/l	1S 3025 (Part 46) 1994	30	100	5.37
11	Nitrate (us NO ₅)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	BDL(DL-2)
12	Odour	×	IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
13	pH	9 1	IS 3025 (Part 11): 2022	6.5 10 8.5	No relaxation	7.13 at 25°C
14	Phenolic compounds (as CoH ₅ OH)	mg/I	1S 3025 (Part 43) - 2022	0.001	0.002	BDL (DL = 0.001)
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24): 2022	200	400	3.84
16	Taste		IS 3025 (Part 8):: 1984	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	18 3025 (Part 16): 1984	500	2000	291
18	Turbidity	NTU	IS 3025 (Part 10): 1984	-1	5	0.1
19	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21): 2009	200	600	76.89

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager Authorized Signatories

Pooja Kathone Technical Manager



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No.	: ALPL/30112023/	-21A dated	30/11/20	23	Page 2 c	f 3
Issued To: M/s. Juda West Iron & Munganese Mine (M/s TATA Steel Limited)		Sample Inward No. Laward Date Reference Reference Date	22/11/	4700098928/962	Analysis Start 23/11/2 Analysis End 29/11/2 Report Issue Date 30/11/2 Sample Category Water	
Sample Name Sample Source Drinking Water Outlet Water		Sample Particulars Sample Code-DW-1		Sample Condition Scaled & Ice Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		Sampling Dr 16/11/2023		Sampling Time 11.45am to 2.50 pm	Sampling Location JWIMM Outlet (bichakundi)	
		Tel es	NAME OF TAXABLE	MARCHAN MARCHAN CONTRACTOR CONTRA		

S.N.	Test Parameter	Measurement Unit	Test Method	Réquirer IS 105 (Drinking Wat Including Ar	Test Result	
				Acceptable Limit	Permissible Limit #	
n	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	1S 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2) 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Ca)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/I	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	1S 3025 (Part 2) 2019	1.0	No relaxation	0.06
27	Lead (as Pb)	mg/l	18.3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL -0.05)
29	Mercury (as flg)	mg/L	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Sc)	mg/l	18 3025 (Part 56): 2003	10.0	No relaxation	BDL (DL-0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL = 0.03)
32	Zinc (as Zn)	mg/l	1S 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynoclear aromatic bydrocarbon (PAH)	μg/I	ANtr/7.2/RES/01: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/l	ANtr/7.2/RES/06: 2018		No relaxation	BDL (DL - 0.001)

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey

Deputy Technical Manager

Swati Gondhalekur Deputy Technical Manager Authorized Signatory



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No.	ALPL/30112023/	-21A date	d 30/11/	2023	Page 3 o	f 3
issued To : M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Reference		PL/22112023/ENV-283-2 11/2023 O 4700098928/962 03.2022	Analysis Start 23/11/202 Analysis End 29/11/202 Report Issue Date 30/11/202 Sample Category Water Quantity Received 5.0 Ltr & 250 ml	
Sample Name Sample Source Drinking Water Outlet Water		Sample Particulars Sample Code-DW-Z		Sample Condition Sealed & Icc Preserved		
	Collected By Representative	Sampling 16/11/20		Sampling Time 11.45am to 2.50 pm	Sampling Lo	ocation
			FEST RE	ST IIIS		

S.N.	Test Pacameter	Measurement Unit	Test Method	Ĭ	Requirer (S 105) (Drinking Wat Including An	Test Result		
-					cceptable Limit Permissible Limit #			
35	Pesticide Residues Organochlori	oe	Contract of the Contract of th				Name of the last	
10	Alphu-HCH	<u>на/</u> 1	ANtr/7_2/RES/01: 2/	018	0.01	No relaxation	BDL (DL - 0.0)	
il	Beta HC11	µg/l	ANtr/7.2/RES/01: 20	810	0.04	No relaxation	BDL (DL + 0.03)	
ili -	Gamma - HCH (Lindane)	µg/l	ANtr/7 2/RES/01: 20	110	2	No relaxation	BDL (DL = 0.03)	
W	Delta-HCH	μg/l	ANtr/7.2/RES/01. 20	NER	0.04	No relaxation	BDL (DL - 0.03)	
Y	Atachlor	pg4	ANtr/7.2/RES/01: 20	810	20	No relaxation	BDL (DL + 0.03)	
vî	Aldrin	uz/I	ANtr/7.2/RES/01: 20	018	0.03	No relaxation	BDL (DL - 0.03)	
Vii	Dieldrin	tre/l	ANtr/7/2/RES/01/20	810	0.07	No relaxation	BDL (DL - 0.03)	
viii	Butachlor	µz/l	ANts/7/2/RES/01:20	810	125	No relaxation	BDL (DL - 0.03)	
D)	p.p'-DDE	119/1	ANti/7.2/RES/01.20	810	1	No relaxation	HDL (DL - 0.03)	
- 4	o.p -DDE	ng/l	ANtr/7.2/RES/01. 2/	810	1	No relaxation	BDL (DL - 0.03)	
-30	p.p -DDD	ug/t	ANu/7.2/RES/01: 20	810	1	No relaxation	BDL (DL - 0.03)	
201	o.pDDD	μχ/1	ANtr/7.2/RES/01: 2/	830	1	No relaxation	BDL (DL - 0.03)	
XIII	o.pDDI	µg/1	ANtr/7.2/RES/01:20	018	1	No relaxation	BDL (DL -0.03)	
RIV	p.p = DDT	µg/I	ANtr/7.2/RES/01: 2/	810	1	No reluxation	BDL (DL - 0.03)	
3.5	Monocrutophos	µg/1	ANU/7 2/RES/01 20	018	1	No relaxation	BDL (DL - 0.03)	
NY	Atrazine	μη/1	ANtr/7 2/RES/01 2		2	No relaxation	BDL (DL - 0.03	
SVII	Parathion methyl	ug/I	ANtr/7.2/RES/01:20		0.3	No relaxation	BDL (DL - 0.03)	
xviii	Paraoxon methyl	ug/l	ANtr/7.2/RES/01: 20			5.10 (1010,000)	BDL (DL +0.03)	
NIX	Malathion	119/1	ANtr/7.2/RES/01:20	_	190	No relaxation	BDL (DL - 0.03)	
XX	Malaoxon	µg/l	ANtr/7/2/RES/01/2/		1	-	BDL (DL - 0.03)	
XXI	Ethion	ид/1	ANtt/7/2/RES/01: 20		3	No relaxation	BDL (DL - 0.03)	
xxii	Chlorpyrifus	ug/l	ANtr/7 2/RES/01:20		30	No relaxation	BDL (DL - 0.03)	

NOTE: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to untod sample(s) and applicable to tested parameters only.
• Test report shall not be reproduced except in full withinst prior swritten approved of Ansoen Labs. • Liability of Ansoen Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report unless specified otherwise. • Permissible limit in absence of an alternate source for dranking water. • 'nig/T' is equivalent to 'ppm'. • 'nig/T' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument without and shall be considered as 'absent', • Result for test no. 11 is not relevant. • ANtr/LZRES-01, if Inhouse validated method. • NT indicates not Testor as sample failed to matablest safety corporate.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with 18:10500:2012, for tests conducted Only,

Verified By

Swati Gondhalekar Deputy Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

--- End of Report---



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Test Report

Test Report No. :	ALPL/301/2023/1-	26A dated 3	0/11/2023		age f of 3
Issued To : M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023/ENV-283-GW-1 22/11/2023 W/O - 4700098928/962 22.03.2022	Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Sample Source Ground Water Borewell Sample Collected By Anacon Representative		Sample Particulars Sample Code-GW-	7.30.60-1.000.000	Quantity Received 5.0 Ltr & 250 ml Sampling Location Bichakundi Borewell No-1 (Near Community Toilet)	
		Sampling Date 18/11/2023	Sampling Time 11,30 am to 4,10 pm		

_			TEST RESULTS		1000000	munity (oner)
S.N.	Test Parameter	Measurement Unit	Test Method	Requirem IS 1050 (Drinking Wate Including Am-	Test Result	
				Acceptable Limit	Permissible Limit #	
1	Biological Testing 1. Water					
1	Escherichta coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
п	Chemical Testing 1. Water					, ropent
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	192.81
3	Anionic surface active agents (as MBAS)	mg/I	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)
4	Colour	Hiszen units	18 3025 (Part 4) : 2021	5	15	- 1
5	Cyanide (as CN)	mg/I	IS 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL -0.005)
6	Chloride (as Cl)	ing/l	IS 3025 (Part 32) 1988	250	1000	32.64
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	51,47
8	Free residual chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	1	BDL (DL - 0.1)
9	Fluoride (as F)	top/I	IS 3025 (Part 60) : 2008	1.0	1.5	0.18
10	Magnesium (as Mg)	mg/I	IS 3025 (Part 46) : 1994	30	100	12.76
11	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	9.51
12	Odour		IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
13	pH	7.0	IS 3025 (Part 11): 2022	6.510 8.5	No relaxation	6.82 at 25°C
14	Phenolic compounds (as CaHaOH)	mg/l	IS 3025 (Part 43): 2022	0.001	0.002	BDL (DL -0.001)
15	Sulphute (as SO ₄)	mg/t	1S 3025 (Part 24) . 2022	200	400	32.58
16	Taste		IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/I	1S 3025 (Part 16) - 2023	500	2000	462
18	Turbidity	MTU	IS 3025 (Part 10) : 1984	1	5	0.3
19	Total hardness (as CnCO ₁)	mg/l	IS 3025 (Part 21): 2009	200	600	181.08

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager Authorized Signatories

Poolar Kathanie Technical Manager





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Test Report

Issued To: M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited) Sample Name Ground Water Boreweil		Sample Inward No. Inward Date Reference Reference Date	22/11/2023	W.O 4700098928/962		23/11/2023 29/11/2023 30/11/2023 Water
		Sample Particular Sample Code-GW-	0.000	le Condition	Quantity Received 5.0 Lar & 250 mi	
Sample Co Anacon Rep		Sampling Date 18/11/2023		pling Time im to 4.10 pm	Sampling L Bichakundi Bor (Near Commu	ocation ewell No-1

		10/1/	1400	oum to 4.10 pm	(Near Co	mmunity Toilet)
			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	Required IS 105 (Drinking Wat Including An	Test Result	
	Marie Park			Acceptable Limit	Permissible Limit #	
11	Chemical Testing 2. Residue	es In Water			3225107.00	
20	Arsenie (as As)	mg/l	1S 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL = 0.01)
-21	Alterrationary can Alix	10.00	40.000.00	1	THE PERSON NAMED IN	ODE IDE - DUIT

	+ practic (do) tol	- inge	10 3023 [180] 371 2022	M.M.	No rejaxation	BDE (DL = 0.01)
21	Aluminium (as Al)	mg/i	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
23	Copper (as Cu)	mg/I	IS 3025 (Part 2) : 2019	0.05	15	BDL (DL - 0.03)
24	Cadmium (as Cd)	mg/l	1S 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
25	Iron (as Fe)	mg/l	1S 3025 (Part 2) : 2019	1.0	No relaxation	0.24
26	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
27	Manganese (as Mn)	mg/l	1S 3025 (Part 2): 2019	0.1	0.3	BDL (DL = 0.05)
28	Mercury (as Hg)	mg/l	15.3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
29	Selenium (as Se)	mg/l	18 3025 (Part 56) : 2003	0.01	No relocation	BDL (DL=0.001)
30	Total Chromium (as Cr)	mg/l	1S 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)
31	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)
32	Polynuclear aromatic bydrocarbon (PAH)	µg/l	ANtr/7.2/RES/01: 2018	0.1	No relaxation	BDL(DL-0.03)

ANtr/7,2/RES/06

33 Mineral Oil mg/l
Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey Deputy Technical Manager Mroag

Swati Gondhalekar Deputy Technical Manager Authorized Signatory

BDL (DL-01)

No relaxation



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Issued To: M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited) Sample Name Ground Water Sample Collected By Anacon Representative		Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023 22/11/2023 W.O 47000989 22.03.2022	/ENV-283-GW-1 28/962	Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 29/11/2023 30/11/2023 Water
		Sample Particular Sample Code-GW-	07,810	Sample Condition Scaled & Ice Preserved	Quantity Received 5.0 Ltr & 250 ml Sampling Location Bichakundi Borewell No-1 (Near Community Toilet)	
		Sampling Date 18/11/2023	1.00	mpling Time) am to 4.10 pm		

S.N.	Test Farameter	Measurement Unit	Test Method	(Drinking V	rement as per 0500 : 2012 ater Specifications) Amendment No. 4	Test Result
-		10.0		Acceptable Limit	Permissible Limit #	
34	Pesticide Residues Organochlori	ne .	and the same of			
_	Alpha-BCH	AR/I	ANU/7.2/RES/01-20	10.01	No relaxation	BDL (DL - 0.01)
- 11-	Beta HCN	Jug/l	ANtr/7.2/RES/01: 20	18 0.04	No relaxation	BDL (DL - 0.03)
lá	Gamma - HCH (Lindane)	jig/l	ANt/7.2/RES/01/20	18 2	No relaxation	BDI_(DL - 0.03)
Jy-	Delta- HCH	Jug/I	ANtr/7.2/RES/01: 20	18 0.04	No relaxation	BDL (DL - 0.03)
V	Alachlor	μg/T	ANtr/7.2/RES/01/20	18 20	No relaxation	BDL (DL - 0.03)
-Vi	Aldrin	µg/l	ANtr/7,2/RES/01:20	18 0.01	No relaxation	BDL (DL = 0.03)
910	Dieldrin	µg/l	ANtr/7 2/RES/01, 20	18 0.03	No relaxation	BDL (D1 - 0.03)
VIII	Butachlor	yg/T	ANII/7/2/RES/01. 20	18 125	No relaxation	BDL (DL - 0.03)
ix	p.p -DDE	μη/1	ANu/7.2/RES/01.20	18 1	No relaxation	BDL (DL - 0.03)
- X	o.p'-DDE	pg/t	ANtr/7.2/RES/01: 20	TX I	No relaxation	BDL (DL = 0.03)
60	p.p -DDD	ug/l	ANIs/7,2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
Xii	o.p. DDD	µg/l	ANtr/7.2/RES/01. 20	18	No relaxation	BDL (DL - 0.03)
xiii	o,p'-DDT	µe/T	ANtr/1.2/RES/01, 20		No relaxistion	BDL (DL - 0.03)
XIV	p,p'-DDT	µg/1	ANte/7.2/RES/01.20	18 1	No relaution	BDL (DL - 0.03)
XV	Monocrataphas	µg/I	ANU/7.2/RES 01 20	18	No relexation	BDL (DL - 0.03)
XVI	Atrazine	µg/l	ANII/7.2/RES/01/20	18 2	No relaxation	BDL (DL - 0.03)
XVII	Parathion methyl	µg/l	ANio7.2/RES/01/20	18 0.3	No relaxution	BDL (DL - 0.03)
NVIII	Parnoxon methyl	ид/І	ANu/7.2/RES/01-20		110 10101000	BDL (DL + 0.03)
XIX	Malathion	µg/l	ANtr/7.2/RES/01 20		No relaxation	BDL (DL - 0.03)
XX	Malaoyou	ду/	ANtr/7.2/RES/01 20			BDL (DL - 0.03)
XXI	Ethion	ug/t	ANtr/7.2/RES/01, 20		No relaxation	BDL (DL - 0.03)
AXII	Chlorpyrifos	l'an	ANtr/7,2/RES/01: 20		No relaxation	BDL (DL - 0.03)

NOTE: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(ii) and applicable to tested parameters only • Test report shall not be reproduced except in full without prior written approval of Anacon Labs • Liability of Anacon Labs is limited to revoceed amount only, • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of none of Test Report, unless specified otherwise. • aPermissible limit in absence of an alternative source for stricking water • mg/T is equivalent to "ppm", • "mg/T" is equivalent to "ppb", • IIDL- Helow detection limit. • DL- DL Indicates detection limit of instrument /method and shall be considered as "absent". • Result for test no. 8 is not relevant. • ANtr/7.2/RES-01,06;: Inhouse validated method. • NT indicates not Tested as sample found in stability agent considered.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with 15:10500:2012, for tests conducted Only.

Verified By

Swati Gondhalekar Deputy Technical Manager

---End of Report-

Authorized Signatory





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Test Report

Issued To : M/s Joda West Iron Mine (M/s TATA Steel I	20 20 20 W 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Sample Inward No. Inward Date Reference Reference Date	22/11/2	1700098928/962	Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Ground Water	Sample Source Borewell		Sample Particulars Samp Sample Code-GW-2 Scaled &		Quantity Received 5.0 Ltr & 250 mf	
Sample Collected By Anacon Representative		Sampling Date 18/11/2023		Sampling Time	Sampling Location Bichakundi Borewell No-2 (Near WTP)	

K.N.	Test Parameter	M asurement Unit	Test Method	Requirement as per 1S 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result	
				Acceptable Limit	Permissible Limit #		
1	Biological Testing I. Water						
1	Eschurighia cali	Per 100 ml	(S 15185: 2016	Absent	Absent	Absent	
11	Chemical Testing I. Water					1,000,000	
3.	Alkalinity (as CaCO ₃)	mg/I	IS 3025 (Part 23) , 1986	200	600	197.36	
3	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1,0	BDL (DL-0.01)	
4	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1	
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL -0.005)	
6	Chloride (as Cl)	mg/l	1S 3025 (Part 32):1988	250	1000	26.43	
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	53.17	
8	Free residual chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	1	BDL (DL - 0.1)	
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.26	
10	Magnesium (as Mg)	mg/l	1S 3025 (Part 46) : 1994	30	100	12.81	
II]	Nitrate (as NO.)	mg/l	APHA method 23rd edition: 2017	45	No relexation	6.94	
12	Odour		IS 3025 (Part 5) : 2018	Agracable	Agreeable	Agreeable	
13	pH		1S 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	7.16 at 25°C	
14	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43)+ 2022	0.001	0.002	BDL (DL - 0.001)	
15	Sulphare (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	32.58	
16	Taste	- 32	IS 3025 (Part 8) 1984	Agrecable	Agrecable	Agrezable	
17	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	463	
18	Turbidity	NTU	IS 3025 (Part 10): 1984	1	5	0.3	
19	Total hardness (as CaCO,)	mg/l	18 3025 (Part 21) : 2009	200	600	185,53	

Please refer last Page for Note and Remarks,

Verified By

Snehal Raut Deputy Technical Manager **Authorized Signatories**

Pooja Kathah Technical Manager



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Test Report

Test Report No. :	ALFL/30112023/1-	2TA dated 3	0/11/2023	F	age 2 of 3
Issued To : M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No, Inward Date Reference Reference Date	ALPL/22112023/ENV-283-GW-2 22/11/2023 W.O 4700098928/962 22.03.2022	Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Ground Water	Sample Source Borewell	Sample Particulars Sample Code-GW-2	The state of the s	Quantity R 5.0 Ltr & 2	
Sample Co Anacon Rep		Sampling Date 18/11/2023	Sampling Time 11:30 am to 4:10 pm	Sampling L Bichakundi Bor (Near W	ocation rewell No-2

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	15 105 (Drinking Wat	Requirement as per 15 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4	
				Acceptable Limit	Permissible Limit #	
11	Chemical Testing 2. Residu	es In Water				
20	Arsenic (as As)	mg/l	IS 3025 (Purt 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	1S 3025 (Part 2): 2019	0:03	0.2	BDL (DL - 0.01)
22	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL = 0.1)
23	Copper (us Car)	mg/l	IS 3025 (Part 2) ; 2019	0.05	1.5	BDL (DL = 0.03)
24	Cadmium (as Cd)	me/I	1S 3025 (Part 2) 12019	0.003	No relaxation	BDL (DL - 0.001)
25	fron (as Fe)	mg/l	1S 3025 (Part 2) : 2019	1.0	No relaxation	0.17
26	Lead (as Pb)	mg/l	1S 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
27	Manganese (as Mn)	mg/l	18 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.05)
28	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL -0.0005)
29	Selenium (as Se)	mg/l	IS 3025 (Part 56): 2003	0.01	No relaxation	BDL (DL-0.001)
30	Total Chromium (as Lr)	mg/l	1S 3025 (Port 2) : 2019	0.05	No relaxation	BDL (DL = 0.03)
31	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
12	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/01: 2018	0.1	No relaxation	BDL(DL-0.03)
33	Mineral Oil	mg/l	ANtr/7.2/RES/06		No relaxation	BDL (DL = 0.1)

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey Deputy Technical Manager Swati Gondhalekar Deputy Technical Manager **Authorized Signatory**



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Test Report

lssued To : M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023/ENV-283+GW-2 22/11/2023 W.O 4700098928/962 22.03.2022	Analysis Start Analysis End Report Issue Date Sample Category	Analysis End 29/11/2023 Report Issue Date 30/11/2023	
Sample Name Ground Water	Sample Source Borewell	Sample Particular Sample Code-GW-	J-27- 38-1	Quantity Received 5.0 Ltr & 250 mi		
Sample Co. Artacon Rep	and the same of th	Sampling Date 18/11/2023	Sampling Time 11.30 am to 4.10 pm	Sampling L Bichakundi Bor (Near W	ocation rewell No-2	

S.N.	Test Parameter	Measurement Unit	Test Method	(Drinking Wat	nent as per 00 : 2012 er Specifications) pendment No. 4	Test Result
34	Birdella New Consultant			Acceptable Limit	Permissible Limit #	
34	Pesticide Residues Organochlori					
-0	Alpha-HCH	μg/l	ANtt/T.2/RES/01: 201		No relaxation	BDL (DL = 0.01
11	Betn HCH.	µg/l	ANtr/7 2/RES/01: 201		No relaxation	BDL (DL -0.03)
107	Gamma - HCH (Lindane)	HB/I	ANG/7.2/RES/01.201		No relaxation	BDL (DL - 0.03)
IV:	Delta- HCH	ug/I	ANU/7 2/RES/01: 201	8 0.04	No relaxation	BDL (DL - 0.03)
Y	Alachlor	ug/I	ANII/7.2/RES/01.201	8 20	No relaxation	BDL (DL - 0.03)
Vi	Aldrin	µg/1	ANIr/7-2/RES/01-201	8 0.01	No reheatton	BDL (DL - 0.03)
vii	Dieldrin	µg/1	ANI/7 2/RES/01 201	8 0.01	No relaxation	BDL (DL = 0.03)
VIII	Butachlop	µg/t	ANU/7.2/RES/01: 201	8 125	No relaxation	BDE (DL - 0.03)
TX.	p.pDDE	ду/1	ANtr/7.2/RES/01:201	8 1	No relaxation	HDL (DL - 0.03)
3	o.p'-DDE	pgl	ANtr/7 2/RES/01: 201	8 1	No relaxation	BDL (DL - 0.03)
XI	p,p'-DDD	μg/1	ANE/7 2/RES/01 201	8 1	No relaxation	HDL (DL =0.03)
XII	o.pDDD	µg/I	ANtr/7 2/RES/01 201	8 1	No relaxation	BDL (DL - 0.03)
XIII	0,p'-100T	µg/f	ANu/7.2/RES/01:201	8 1	No relaxation	BDL (DL - 0.03)
XIV-	p.p - DDT	119/1	ANIn/7.2/RES/01: 201	8 1	No relaxation	BDL (DL - 0.03)
XV	Monocrotophos	μg/l	ANtr/7.2/RES/01:201	8 1	No relaxation	BOL (DL - 0.03)
XVI	Atrazine	μg/T	ANit/7.2/RES/01:201	8 2	No relaxation	BDL (DL - 0.03)
XXII	Parathion methyl	µy/l	ANtr/7.2/RES/01:201		No relaxation	BOL (DL - 0.03)
XVIII	Paraoxon methyl	με/1	ANtr/7.2/RES/01: 201	The second second	THE TERMINATION	BDL (DL - 0.03)
XIX	Malathion	μg/1	ANtr/7.2/RES/01:201		No relaxation	BDL (DL ~ 0.03)
XX	Malaoxon	ив/1	ANtr/7.2/RES/01:201		7.0.760,000,00	BOL (DL - 0.03)
XXL	Ethion	μg/1	ANtr/7.2/RES/01.201		No relaxation	BDL (DL - 0.03)
XXII	Chlorpyrifos	ид/1	ANtr/7.2/RFS/01.201		tio relevation	HDL (DL -0.03)

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with D:10500:2012, for tests conducted Only.

Verified By

Swati Gondhalekar

Deputy Technical Manager

End of Report-

Authorized Signatory





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Test Report

Test Report No.: ALPL/30112023/1-28A dated 30/11/2023 Page 1 of 3 Sample Inward No. ALPL/22112023/ENV-283-GW-3 Analysis Start 23/11/2023 Inward Date 22/11/2023 Analysis End 29/11/2023 M/s Joda West Iron & Manganese Mine Reference W.O.- 4700098928/962 Report Issue Date 30/11/2023 (M/s TATA Steel Limited) Sample Category Water Reference Date 22.03.2022 Sample Name Sample Source Sample Particulars Sample Condition Quantity Received Ground Water Borewell Sample Code-GW-3 Scaled & Ice Preserved 5.0 Ltr & 250 ml Sample Collected By Sampling Date Sampling Time Sampling Location Anacon Representative Bichakundi Borewell No-3 18/11/2023 11.30 am to 4.10 pm

				11 10 4-10 pm	(Near Micro	Activity Centre)
			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	(Drinking Water	Requirement as per 1S 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4 Acceptable Permissible Limit Limit #	
		1 2 20 1				
T.	Biological Testing 1. Water				2.000	
1	Excherichia coli	Fer 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing L. Water				57400	1,10,04,01
2	Alkalimity (as CaCO ₃)	ing/l	IS 3025 (Part 23) : 1986	200	600	163.82
3	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL -0.01)
4	Colour	Hazen units	1S 3025 (Part 4): 2021	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	No relaxation	BDL (DL - 0.005
6	Chloride (ns Cl)	mg/I	IS 3025 (Part 32) :1988	250	1000	23.84
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) 1991	75	200	53.91
8	Free residual chlorine	mg/l	IS 3025 (Part 26) ± 2021	Min. 0.2		BDL (DL-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.26
10	Magnesium (as Mg)	mg/l	1S 3025 (Part 46) : 1994	30	100	11.92
11	Nitrate (as NO ₃)	l Dgm	APHA method 23rd edition: 2017	45	No relaxation	9.53
12	Odour		IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
1.3	pH	- 25	IS 3025 (Part 11) : 2022	h.5 to 8.5	No relaxation	6.77 at 259C
14	Phenolic compounds (as C _a H ₃ OH)	mg/l	1S 3025 (Part 43): 2022	0.001	0.002	BDL (DL - 0.001)
15	Sulphate (as SO ₄)	mg/l	1S 3025 (Part 24): 2022	200	400	26.81
16	Taste	1. 13 - 1	IS 3025 (Part 8): 1984	Agrecable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	1S 3025 (Part 16): 2023	500	2000	451
18	Turbidity	NTU	IS 3025 (Part 10): 1984	1	5	0.3
19	Total hardness (as CaCOA)	mg/l	IS 3025 (Part 21) : 2009	200	600	183.73

Please refer last Page for Note and Remarks.

Verified By

Deputy Technical Manager

Authorized Signaturies

Pooja Kathane Technical Manager



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Test Report

Issued To: M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023/ENV-283-GW-3 22/11/2023 W.O 4700098928/962 22:03:2022	Analysis Start Analysis End Report Issue Date Sample Category	23/11/2023 23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Ground Water	Sample Source Borewell	Sample Particular Sample Code-GW-		Quantity R	
Sample Co Anacon Rep	ellected By presentative	Sampling Date 18/11/2023	Sampling Time 11.30 am to 4.10 pm	Sampling I Bichakundi Boi (Near Micro Act	ocation rewell No-3

T	EST	R	ESI	JE.	rs

S.N.	Test Parameter	Mensurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 00 : 2012 er Specifications) nendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
H	Chemical Testing 2. Residu	es In Water				
20	Arsenic (as As)	mg/l	JS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL + 0.01)
21	Aluminium (as Al)	mg/l	1S 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Boron (as A)	mg/l	IS 3025 (Part 2): 2019	R.5	2.4	BDL (DL - 0.1)
23	Copper (as Cu)	mg/l	IS 3025 (Part 2) ; 2019	0.05	1.5	BDL (DL = 0.03)
24	Cadmium (as Cd)	mg/I	IS 3025 (Part 2) 2019	0.003	No relaxation	BDL (DL - 0.001)
25	Iron (as Fe)	mg/I	1S 3025 (Part 2) : 2019	1.0	No relaxation	0.26
26	Lead (as Pb)	mg/I	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
27	Manganese (as Mn)	mg/l	1S 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
28	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
29	Selenium (as Se)	ing/l	18 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.001)
30	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
31	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
32	Polynuclear aromatic hydrocurbon (PAH)	дд/Т	ANtr/7.2/RES/01: 2018	0.)	No relaxation	BDL(DL-0.03)
33	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL ~ 0.1)

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey

Deputy Technical Manager

Swati Gondhalekar

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Quality Manager



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No.: Issued To: M/s Joda West Iron Mine (M/s TATA Steel I	& Manganese	Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023/ENV-283+GW-3 22/11/2023 W.O 4700098928/962 22:03:2022	Analysis Start Analysis End Report Issue Date Sample Category	Page 3 of 3 23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Ground Water	Sample Source Borewell	Sample Particular Sample Code-GW-	Charles and an arrangement	Quantity R	
Sample Co Anacon Rep	1.00	Sampling Date 18/11/2023	Sampling Time 11.30 am to 4.10 pm	Sampling L Bichakundi Bo (Near Micro Act	rewell No-3

			TEST RESULT	S		
S.N.	Test Parameter	Measurement Unit	Test Method	(Drinking Wa	ement as per 500 : 2012 ster Specifications) smendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
34	Pestivide Residues Organochlori		Acres Constitution			
	Alpha-HCH	µg/l	ANtr/7.2/RES/01: 201	18 0.01	No relaxation	BDL (DL - 0.01)
ñ	Bera HCTI	µg/i	ANtr/7.2/RES/01: 201	18 0.04	No religation	BOL (DL - 0:03)
- 61 -	Gamma - HCH (Lindane)	Typy	ANtr/7.2/RES/01/201	18 2	No relixation	BDL (DL - 0.03)
iv	Delta-HCIT	µg/l	ANtr/7.2/RES/01: 201	18 0.04	No relaxation	BDL (DL - 0.03)
Ÿ	Alachlor	μg/1	ANtr/7,2/RPS/01, 201	18 20	No relaxation	BDL (DL - 0.03)
vi	Aldrin	ug/l	ANtr/7,2/RES/01: 201	18 0.03	No relaxation	BDL (DL - 0.03)
VII	Dieldrin	ugi	ANtr/7.2/RES/01-201	18 0.01	No relaxation	BDI-(DL - 0.03)
vill	Butachlor	µg/T	ANtr/7 2/RES/01: 201	18 125	No relaxation	BDL (DL - 0.03)
ÍX:	p.p'-DDE	µg/l	ANtr/7.2/RES/01: 201	18	No relaxation	BDL (DL - 0.03)
X	e.p -DDF	µg/l	ANto/7.2/RES/01/201	18	No relection	BDL (DL = 0.03)
XI	p.p -DDD	µg/I	ANIt/7,2/RES/01: 201	18 1	No relaxation -	BDL (DL - 0.03)
KII	o,p'-DDD	µg/l	ANtr/7.2/RES/01: 201	1 8	No relaxation	BDL (DL - 9.03)
301	o,p'-DDT	ug/l	ANtr/7 2/RES/01: 201	18	No relaxation	BDL (DL - 0.03)
xiv	p.p' - DDT	µg/l	ANU/7,2/RES/01: 201		No relaxation	BDL (DL - 0.03)
KV	Monocrotophos	ug/l	ANn/7.2/RFS/01: 20:	18	No reluxation	HDL (DL - 0.03)
xyi	Atrazine	ug/l	ANtr/7,2/RES/01: 20	18 2	No relaxation	BDL (DL - 0.03)
SVII	Parathion methyl	µg/l	ANtr/7/2/RES/01: 201	8 0.1	No religation	BDL (DL - 0.03)
8000	Parauxon methyl	Hgill	ANtr/7.2/RES/01:20	the same of the sa	155 Telledericki	BDL (DL ~ 0.03)
Tix	Malathion	บุรา	ANtr/7,2/RES/01: 20	18 190	No relaxation	BDL (DL - 0.03)
KX.	Malaoson	ug/l	ANI/7 2/RES/01, 201		- Spanner	BDL (DL - 9.03)
XXI	Ethion	ug/l	ANtr/7 2/RES/01: 201	18 3	No relaxation	BDL (DL - 9.03)
AXII	Chlorpytino	µg/I	ANtr/7.2/RES/01.20		No relaxation	BDL (DL - 0.03)

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with 15:10506:2012, for icon conducted Only,

Verified By

Swati Gondhalekar Deputy Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

---End of Report-



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Test Report

LPL/301	12023/1-33	dated 30/11/2023		Pag	e I of I	
Issued To: Sample Inward No. M/s Joda West Iron & Inward Date Manganese Mine Reference (M/s TATA Steel Limited) Reference Date			ALPE/22112023/ENV-283-SW-1 & 2 22/11/2023 W.O 4700098928/962 22.03.2022		Analysis Start 23/11/2 Analysis End 29/11/2 Report Issue Date 39/11/2	
		Sample Particulars Sample Code-SW-1 & 2	THE RESERVE AND ADDRESS OF THE PARTY OF THE	dition	Quar	& 250 ml each
		Sampling Time 11.55 am to 4.25 pm		Sampling Location eth-hutting before H-quarry (Sona River)-SV- th-hutting after H-quarry (Sona River)-SW-		Sona River)-SW-1
	nited) Sa	Inward Date Reference Reference Bate Sample Source Sona River I By Sampling Date	Sample Inward No. ALPL/22112023/ENV Inward Date 22/11/2023 Reference W.O 4705098928/96 Reference Date 22.03.2022 Sample Source Sona River Sample Code-SW-1 & 2 I By Sampling Date Sampling Time	Sample Inward No. ALPL/22112023/ENV-283-SW-1 & 2 Inward Date	Sample Inward No. ALPL/22112023/ENV-283-SW-1 & 2 Analysis S Inward Date 22/11/2023 Analysis S Analysis I Reference W.O. 4700098928/962 Report Iss Reference Date 22.03.2022 Sample Condition Sona River Sample Code-SW-1 & 2 Scaled & Ice Preserved I By Sampling Date Sampling Time Sampling Date Sampling Date Sampling Time Sampling Date Sampl	Sample Inward No. ALPL/22112023/ENV-283-SW-1 & 2 Analysis Start Inward Date 22/11/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Category Sample Source Sample Particulars Sample Condition Quan Sona River Sample Code-SW-1 & 2 Scaled & Ice Preserved 2.0 Lit By Sampling Date Sampling Time Sampling Location 17/11/2023 11.55 am to 4.25 pm 1. Keth-hunting before 16-quarry

TEST RESULTS

	Test Parameter	120		Standards	Test	Result
5.N.		Test Parameter Measurement Unit	Test Method	us per IS 2296:1992 Class C	SW-1	SW-2
1	Biological Testing 1.Water					
1	Coliform	MPN/100ml	IS 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing 1.Water				3111393-2-39	1000(000.0)
2	pH value		IS 3025 (Part 11): 2022	60 to 9.0	7.68 at 25°C	7.82 at 25°C
3	Colour	Hazen units	1S 3025 (Part 41 : 2021	300	16	12
4	Dissolved Oxygen	mg/l	15 3025 (Part 3K) 1989	4.0	6.7	6.4
5	Total Suspended Solid (as 158)	mg/l	IS 3025 (Part 17) 2022		34	28
0	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) 1993	3.0	2.63	2.51
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006		6.94	5.82
8	Total Dissolved Solids (TDS)	rog/l	IS 3025 (Part 16): 1984	1500	1453	1137
9	Copper (as Cu)	mg/l	1S 3025 (Part 2): 2019	1.5	0.06	0.04
10	Chloride (as CI)	mg/l	15 3025 (Part 32) 1988	600	62.94	58.36
11	Sulphate (as SO ₄)	me/l	IS 3025 (Part 24) 2022	400	72.81	64.27
12	Nitrate (as NOs)	mu/l	15-3025 (Part 34): 1988	30	19.32	18.51
-13	Fluoride (us F)	mg/l	IS 3025 (Part 60): 2008	1.5	0.46	0.42
14	Cyanide (as CN)	mg/t	15 3025 (Part 27) 1986	0.05	BDL(DL-0,005)	BDL(DL-0.005
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)
16	Antonic Detergent	High	15 13428 2005 Anney K	1.6	BDL(DL-0.01)	BDL(DL-0.01)
	Chemical Testing 2. Residues In	Water			333,(0.0 3323)	arretare out
17	fron (as Fe)	tright	15 J025 (Feet 2) 2019	63.	0.37	0.41
18	Cadmium (us Cd)	mg3	DK 1025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)
19	Selenium (as Se)	mg/t	IS 3025 (Part 56) : 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
21	Lend (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-01)
22	Zinc (as Zn)	mg/I	IS 3025 (Part 2) 2019	15	BDL(DL-0.1)	BDL(DL-0.1)
23	Hexa Chromami (as Cr").	mg/l	18/3025 (Part 2) .2019	0.03	BDL(DL-0.1)	BDL(DL-0.1)
24	Mercury (as Hg)	mg/I	18 . 3025 (Pan 48) 1994	-	BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2) 2019	-	BDL(DL-0.1)	BDL(DL-0.1)

NOTES:

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'mpl' is equivalent to 'ppin'.

BOL-Below detection limit.

It Indicates detection limit of intercommunity method and shall be considered as 'ploant."

REMARKS: As requested by the crient, sample was tested for above parameters only

Verified By

Nidhi Dubey Deputy Technical Manager Snehal Raut Deputy Technical Manager 17 mg 2

authorized Signatories

Poora Kamane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No. :	ALPL/301	12023/1-34	dated 30/11/2023				Page 1 of 1
M/s Joda West Iron & Inward Da Manganese Mine Reference		Sample Inward No. Inward Date Reference Reference Date	ALPL/22112023/ENV- 22/11/2023 W.O 4700098928/96/ 22/03/2022		Analysis S Analysis I Report Is: Sample C	End sue Date	23/11/2023 29/11/2023 30/11/2023 Water
Sample Name Sample Source Surface Water 1. Upstream 2. Downs			Sample Particulars Sample Code-SW-3 & 4	Sample Con Scaled & Ice P	dition	Quar	tity Received
		Sampling Date 17/11/2023	Sampling Time 11.55 am to 4.25 pm	1. Pichlaghat upstream-SW-3 2. Pichlaghat downstream-SW-4			

TEST RESULTS

	Test Parameter	120		Standards	Test	Result
5.N.		Test Parameter Measurement Unit		2296:1992 Class C	SW-3	SW-4
1	Biological Testing 1.Water	0				
1	Coliform	MPN/100ml	IS 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing LWater					mentary at
2	pH value		IS 3025 (Part 11) 2022	60000	7.82 at 25°C	8.16 at 25°C
3	Colour	Hazen units	1S 3025 (Part 4): 2021	300	16	14
4	Dissolved Oxygen	mg/l	18 3025 (Part 38) :1989	4.0	63	5.N
.5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17) 2022	-	32	27
Ď.	HOD () days at 27°C)	mg/l	15 3025 (Part 44) :1993	3.00	2.64	2.58
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) 2006		7.19	6.82
8	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16): 1984	1500	1394	1287
9	Copper (as Cu)	mg/l	1S 3025 (Part 21: 2019	1.5	0.06	0.05
10	Chloride (as Cl)	mg/l	15 3025 (Part 32) 1988	600	61.26	59.21
H-	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) 2022	400	42.81	37.94
17	Nitrate (as NO ₅)	mg/l	15 3025 (Part 34) : 1988	50	18.32	16.21
13	Fluoride (as F)	me/l	IS 3025 (Part 60) 2008	1.5	0.48	0.43
14	Cyanide (as CN)	mg/t	IS 3025 (Part 27) 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)
15	Plienolic compounds (as ChH5OH)	mg/l	1S 3025 (Part 43) 1001	0.005	BDL(DL-0.001)	BDL(DL-0,001)
1.6:	Anionic Detergent:	mg/l	IS 13428 : 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)
	Chemical Testing 2, Residues In	Water			- All	modition and
17	Tron (us Fe)	mg/l	IS 3025 (Part 2): 2019	0.5	0.42	0.38
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)
19	Selenium (as Se)	mg/l	1S 3025 (Part 56) : 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
20	Arsenic (us As)	rrig/l	18 3025 (Part 37): 2022	0,2	BDL(DL-0.05)	BDL(DL-0.05)
21	Lead (as Pb)	mg/l	1S 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DE-0.1)
22	Zinc (as Zn)	mg/I	IS 3025 (Part 2): 2019	13	BDL(DL-0.1)	BOL(DL-0.1)
23	Hexa Cimumium (as Cr 7)	trig/t	15-3025 (Part 2) (2019	V.05	BDL(DL-0.1)	801/01-01)
24	Meroury (as Hg)	mgi	18 3025 (Part 48) 1994	90.700	BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn):	mg/l	IS 3025 (Part 2) - 2019		BDL(DL-0.1)	BDL(DL-0.1)

NOTES: Please see watermark: "Original Test Report" to confirm the nuthenticity of this report. Results shall be referred to tested sample(a) and applicable to tested parameters only.

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REMARKS : As requested by the client, sample was tasked by above surameters poly-

Verified By

Nidhi Dubey Ats Technical Manager Seehal Haut Deputy Technical Manager Authorized Signatories

Poojs Kethane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report-





Anacon Laboratories Pyt. Ltd. Nagpur Lab

QFP-34, 35, Food Park, Five Star Industrial Estate. MIDC Butibon, Nagpur, Maharashtra, India - 441 122 C+ 91 8045685558 ■ Email: info@anacon.in O https://www.pnaconlaboratories.com

Test Report

Test Report No. : A	LPL/301	12023/1-38	dated 30/11/2023			Page	I of 1	
M/s Joda West Iron & In Manganese Mine R		Sample Inward No. Inward Date Reference Reference Date	6. ALPL/22112023/ENV-283-SW-10 & 22/11/2023 W.O 4700098928/962 22.03.2022		Analysis End 29/11/2		23/11/2023 29/11/2023 30/11/2023 Water	
The state of the s		mple Source and & River	Sample Particulars Sample Code-SW-10 & 11	Sample Con Scaled & Ice P	dition	Quan	uantity Received	
Sample Collected By Anacon Representative		Sampling Date 17/11/2023	Sampling Time 11:55 am to 4:25 pm	1: Posc 2: SON/	Sampl I near 5T hi KRIVER (K.	ing Location ghschool, Bl ANDRA VILL		

			TEST RESULTS	Standards as	Tost	Result
S.N.	Test Parameter	Measurement Unit	Test Method	per 1S 2296:1992 Class C	SW-10	SW-11
D	Biological Testing J.Water					
4.5	Californ	MPN/100ml	15 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing 1.Water					
2	pH value		IS 3025 (Part 11): 2022	6.0 to 9.0	7.84 at 25°C	8.16 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) 2021	300	24	19
4	Disselved Oxygen	mg/l	IS 3025 (Part 38) 1989	410	6.3	5.8
5	Total Suspended Solid (as TSS)	mg/l	15 3025 (Part 17) 2022		32	26
6	BOD (1 days at 17°C)	mg/T	15 3025 (Part 44) 1993	3.0	2.61	2.57
7	Chemical oxygen demand	me/l	1S 3025 (Part 58) :2006	Pi I	8.14	7.36
-8	Total Dissolved Solids (TDS)	mgfl	IS 3025 (Part 16): 1984	1500	1439	1371
9	Copper (as Cu)	mu/l	IS 3025 (Part 2) 2019	1.9	0.06	0.04
10	Chloride (as LT)	mg/i	IS 3025 (Part 32):1988	600	57.31	43.68
H	Sulphate (as SOA)	ne/l	IS 3023 (Part 24) 2022	400	73.94	61.71
12	Nitrate (as NO ₁)	mg/I	IS 3025 (Part 34) 1988	50	14.52	13.86
13	Fluoride (as F)	figm	(S 3025 (Part 60) : 2008	1.5	0.43	0.37
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005
1.5	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)
16	Anionic Detergent	mg/l	1S 13428 : 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)
	Chemical Testing 2. Residues In	Water		-	assemption over the	inchiatric diditi
17	Iron (as Fe)	mg/i	(S.3025 (Part 2): 2019	0.5	0.41	0.38
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)
19	Selenium (as Se)	mg/f	IS 3025 (Part 56) 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
20	Arsenic (as As)	me/f	IS 3025 (Part 37) 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
21	Lead (as Pb)	mg/T	18 3025 (Pag 47) : 2003	0.1	BDL/DL-0 13	BDL(DL-0.1)
22	Zinc (as Zn)	my/i	IS 3025 (Part 2): 2019	1.5	BDL(DL-0.1)	BDL(DL-0.1)
23	Hexa Chromouro (as Cr 3)	mg/l	IS 3025 (Part 2) 2019	0.05	BDL(DL-0.1)	BDL(DL-0.1)
24	Mercury (as Hg)	mg/T	IS: 3025 (Part 48) 1994		BDL/DL-0.013	BDL(DL-0.01)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019		BDL(DL-0.1)	BDL(DL-0.1)

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REMARKS: As requested to the client, serrole was tested for above parameters only.

Verified By

Technical Manager

Deputy Technical Manager

Authorized Signatories

Technical Ma

Dr. (Mrs.) S.D. Garway Quality Manager

End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No. :	VLPL/30	Sample Inward No.	dated 30/11/2023 ALPL/22112023/ENV-2	83.SW-12 & 12	Analysis:	Ctant	Page 1 of 1	
M/s Joda West Iron & Inw Manganese Mine Ref		Inward Date Reference Reference Date	22/11/2023 W.O4700098928/962 22.03.2022	103-3W-12 W 13	Analysis Report Is Sample C	End sue Date	23/11/2023 29/11/2023 30/11/2023 Water	
Sample Name Surface Water	The state of the s		Sample Particulars Sample Code-SW-12 & 13	Sample Cone Sealed & Ice Pr	tition	Qua	ntity Received	
Sample Collected By Sampling Date Anacon Representative 17/11/2023			Sampling Time 11.55 am to 4.25 pm	L BAIL	Sampl ARANI RIVI	ing Locatio		

TEST RESULTS

	Test Parameter	14.2		Standards as	Test	Result
S.N.		Unit Unit	Test Method	per 18 2296:1992 Class C	SW-12	SW-13
1	Biological Testing 1.Water				1.10.2	
1	Californ	MPN/100m/	15 1622 1 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing L.Water				200 200 200	Date(Dir 4)
2	pH value	-	(\$ 3025 (Pan 11) : 2022	6.0 to 9.0	7.92 at 25°C	8.16 at 25°C
3	Colour	Hazen units	19 3025 (Part 4) 2023	300	16	12
4	Dissolved Oxygen	mg/I	15 3025 (Part 38) ,1989	4.0	5.4	6.2
5	Total Suspended Solid (# TSS)	mg/I	IS 3025 (Part 17) :2022	- 2	28	24
-6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) 1993	3.0	2.71	2.61
1	Chemical oxygen demand	mg/I	IS 3025 (Part 58) ,2006	- 44	8.16	7.93
8	Total Dissidved Solida (TDS)	mg/l	1S 3025 (Part 16) - 1984	1300	1427	1381
9	Copper (as Cu)	ms/I	IS 3025 (Part 2): 2019	13	0.06	0.03
10	Chloride (as Ct)	mg/I	1S 3025 (Part 32): 1988	600	57.19	46.21
11	Sulphate (as SO ₄)	mg/I	IS 3025 (Part 24) : 2022	400	101.82	97.36
12	Nitrate (as NO:)	mg/f	15 3025 (Part 34) 1988	50	17.32	16.84
13	Fluoride (as F)	mg/l	1S 3025 (Part 60) : 2008	1.5	0.38	0.27
14	Cynnide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	BDL(D1-0.005)	BDL(DL-0.005
15	Phenolic compounds (as C6H5OH)	mg/l	18 3025 (Pw1 43) :1001	0.005	BDL(DL-0.001)	BDL(DL-0,001)
16	Anionic Desergent	mg/I	15-13428 : 2005 Annex K.	1.0	BDL(DL-0.01)	BDL(DL-0.01)
	Chemical Testing 2. Residues In	Water			1001000-0011	District Ower)
17	Iron (as Fc)	mg/l	IS 3025 (Part 2): 2019	0.5	0.37	0.41
18	Cadmium (us Cd)	mg/l	IS 3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.11
19	Selenrum (as Se)	mg/l	IS 3025 (Part 56) 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
20	Arsenic (as As)	mg/l	1S 3025 (Part 37) 2022	0.2	BDL(DL-0.05)	BD((DL=0.05)
21	Lead (as Pb)	mg/l	(S 3025 (Part 47) 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)
22	Zinc (us Zn)	mg/l	IS 3025 (Part 2): 2019	15	BDL/DL-0.11	BDL(DL-0.1)
23	Hexa Chramium (as Cr*)	mg/l	15 J025 (Part 2) (2010	0.05	BDL(D1-0.1)	BUL(DL-0.1)
24	Mercury (as Hg)	mg/l	15 : 3025 (Part 48) : 1994		BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/t	1S 3025 (Part 2): 2019	-	BDL(DL-0.1)	BDL(DL-0.1)

NOTES:

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Non-pershable and pershable and per

REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Nidhi Dubey Diputy Technical Manager Snohal Raut Deputy Fechnical Manager Authorized Signatories

Proja Kalifune Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

---- End of Report----



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 MIDC Bulibori, Nagpur, Maharashtra, India - 441 122
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 https://www.anacontaboratories.com

Test Report

Test Report No. : A	ALPL/301	12023/1-40	dated 30/11/2023		P ₂	ige I of 1		
Issued To: San M/s Joda West Iron & Inw Manganese Mine Ref		Sample Inward N Inward Date Reference Reference Date	 ALPL/22112023/EN 22/11/2023 W.O 4700098928/ 22.03.2022 		Analysis Analysis Report I Sample (End ssue Date	23/11/2023 29/11/2023 30/11/2023 Water	
		mple Source River	Sample Particulars Sample Code-SW-14	Sample Cone Scaled & Ice Pr	fition	Quar	ntity Received	
		Sampling Date 17/11/2023	Sampling Time 11.55 am to 4.25 pm	14. BICHAK		g Location	DEN POND-SW-14	

TEST RESULTS

	Test Parameter	Measurement		Standards as per	Test Result
S.N.		Unit	Test Method	IS 2296:1992 Class C	SW-14
1	Biological Testing Librator		and the same of th		
T.	Cotiform	MPN/100mt	IS 1622 1981	5000	BDL(DL-2)
11	Chemical Testing 1.Water				
2	pH value		1S 3025 (Part 11): 2022	6.0 to 9.0	8.26 at 25°C
3	Colour	Hazen units	IS 3025 (Purt 4): 2021	300	12
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38):1989	4.0	6.2
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17) :2022		32
Ď.	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44):1993	3.0	2.64
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	-	8 19
8	Total Dissolved Solids (TDS)	ntg/I	15 3025 (Part 16): 1984	1500	1421
9	Copper (as Cu)	mu/t	1S 3025 (Part 2) : 2019	15	0.06
10	Chloride (as Ci)	mi/I	IS 3025 (Part 32) 1988	600	46.39
11	Sulphine (as SO ₄)	mg/I	1S 3025 (Part 24) 2022 :	400	57.47
12	Nitrate (as NO ₁)	mg/I	IS 3025 (Part 34): 1988	50	17.32
13	Fluoride (as F)	mg/l	1S 3025 (Part 60) : 2008	15	0.41
14	Cyanide (as CN)	mg/1	IS 3025 (Part 27) : 1986	U.65	BDL(DL-0.005)
15	Phenolic compounds (8s C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDI(DI-0,001)
16	Anionic Detergent	mg/I	IS 13428 2005 Annex K	1.0	BDL(DL-0.01)
	Chemical Testing 2. Residues In	Water			
17	Iron (as Fe)	mg/l	IS 3025 (Part 2) 2019	0.5	0.42
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41) / 1992	WEI	BDL/DL-0.11
19	Selenium (as Se)	mg/l	1S 3025 (Part 56) 2003	0.15	BDL(DL-0.1)
20	Arrente las Asi	mg/I	15 3025 (Part 37): 2022	0.2	BDL(DL-0.05)
21	Lead (as Ph)	m <u>∉</u> /l	1S 3025 (Part 47) . 2003	.0.1	BDL(DL-0.1)
22	Zinc (as Zn)	mg/l	15 3025 (Part 2) 2019	15	BDL(DL-0.1)
23	Hexa Chromium (us Er)	my/t	15 3025 (Part 1) *2019	0.05	BDL(DL-0.1)
24	Mercury (as Hg)	mg/I	15 : 3025 (Part 48) : 1994	-	BDL(DL-0.01)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2) 2019		BDL(DL-0.1)

NOTES:

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Liability of Auscon Lats to immediate interested an immediate interested an invested an invested an invested and permittable sample(s) thall be disposed off after 30 days and 15 days respectively from the date of result of Test Report, unless specified inherence.

"mg" is equivalent to 'ppost'.

BELL
Bellity detection from

DL- fadicates detection from of instrument/method and shall be considered as 'absent'.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Nidhi Dubey

oputy Lechnical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathime

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

--- End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

st Report No.:	f 3		
Issued To : M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)			
Sample Name Sample Source Drinking Water Inlet Water			
Sample Collected By Anacon Representative			
Sample Collected By			

S.N.	Test Parameter	Measurement Unit	Text Method	Requirement as per 1S 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result	
		189780		Acceptable Limit	Permissible Limit #		
1	Biological Testing I. Water				*		
T	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent	
11	Chemical Testing I. Water						
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	72.9	
3	Anionic surface active agents (as MBAS)	mg/I	IS 13428 : (Annex K): 2005	0,2	1.0	BDL (DL - 0,01)	
4	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1	
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27) / 1986	0.05	No relaxation	BDL (DL - 0,005)	
Ď	Chloride (as Cl)	mg/I	IS 3025 (Part 32):1988	250	1000	23.27	
7	Calcium (as Ca)	Pgm	IS 3025 (Part 40): 1991	75	200	31.58	
8	Free residual chlorine	me/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL = 0.1)	
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) ; 2008	1.0	1.5	BDL (DL - 0.1)	
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) 1994	30	100	5,92	
11	Nitrate (as NO ₃)	tng/l	APHA method 23rd edition: 2017	45 .	No relaxation	BDL(DL-2)	
12	Odour	2	IS 3025 (Part 5) 2018	Agreeable	Agreeable	Agreeable	
13	pH	2	IS 3025 (Part 11): 2022	6.516.8.5	No relaxation	6.73 at 25°C	
14	Phenolic compounds (as CoHsOH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	BDL (DL = 0.001	
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) ; 2022	200	400	9.26	
16	Taste		IS 3025 (Part 8): 1984	Agrecable	Agreeable	Agreeable	
17	Total dissolved solids	mg/l	15 3025 (Part 16): 1984	500	2000	308	
18	Turbidity	NIU	IS 3025 (Part 10) : 1984	T.	- 5	0.3	
19	Total hardness (as CaCO ₁)	mg/l	IS 3025 (Part 21): 2009	200	600	103.25	

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager **Authorized Signatories**

Pooja kathane Technical Manager



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

ALPL/31102023/	-20A dated	31/10/2023	Page 2 o	f 3
i & Manganese	Sample Inward No. Inward Date Reference Reference Date	ALPL/23102023/ENV-261-1 23/10/2023 W.O 4700098928/962 22.03.2022	Analysis Start Analysis End Report Issue Date Sample Category	23/10/2023 30/10/2023 31/10/2023 Water
Sample Source Inlet Water	119" AAA P.C. L. T. LOB AGAINS			300000-20
Representative	The second secon		The second secon	
	Sample Source Inlet Water	Sample Inward No. Inward Date Reference Reference Date Sample Source Inlet Water Collected By Sample Inward No. Inward Date Reference Sample Particular Sample Code-DW-	Sample Inward No. ALPL/23102023/ENV-261-1 Inward Date 23/10/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars Sample Condition Inlet Water Sample Code-DW-1 Sealed & Ice Preserved Collected By Sampling Date Sampling Time	Sample Inward No. ALPL/23102023/ENV-261-1 Analysis Start Inward Date 23/10/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Sample Source Sample Particulars Sample Condition Inlet Water Sample Code-DW-1 Sealed & Ice Preserved 5.0 Lir & 2 Collected By Sampling Date Sampling Time Sampling La

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	15 105 (Drinking Wat	ment as per 00 : 2012 er Specifications) nendment No. 4	Test Result
		1000		Acceptable Limit	Permissible Limit #	
u	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0,2	BDL (DL = 0.01)
22	Barium (as Bu)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL - 0,01)
23	Boron (as B)	mg/L	IS 3025 (Part 2) : 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/I	1S 3025 (Part 2) : 2019	0.05	1.5	BDL (DL = 0.03)
25	Cadmium (as Cd)	mg/l	1S 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	1S 3025 (Part 2) : 2019	1.0	No relaxation	0,13
27	Lead (as Pb)	mg/i	IS 3025 (Purt 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	rog/l	IS 3025 (Part 2) 2019	1.0	0.3	BDL (DL-0.05)
29	Mercury (as Hg)	mg/I	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (us Se)	rng/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.001)
31	Total Chromium (as-Cr)	mg/l	18 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL = 0.03)
32	Zinc (as Zn)	nig/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/01: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/I	ANtr/7.2/RES/06: 2018	T	No relaxation	BDL (DL-0.001)

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey Lipputy Technical Manager Swati Gondhalekar Deputy Technical Manager Authorized Signatory



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 ₱ https://www.anaconlaboratosias.com

Test Report

Test Report No. :	ALPL/31102023/	1-20A dated	31/10/2023	Page 3 c	of 3	
Issued To : M/s Jodn West Iron Mine (M/s TATA Steel I		Sample Inward No. Inward Date Reference Reference Date	A1.PL/23102023/ENV-261-1 23/10/2023 W.O 4700098928/962 22.03.2022	Analysis Start Analysis End Report Issue Date Sample Category	23/10/2023 30/10/2023 31/10/2023 Water	
Sample Name Drinking Water	Sample Source Inlet Water	Sample Particular Sample Code-DW-	Company of the control of the contro	N 11 1 22 2 CONSTR	70.000	
	Representative	Sampling D 18/10/202		Sampling L JWIMM WTP Inic		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per 18 10800 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
35	Pesticide Residues Organochlori	ne				
Ĭ	Alpha-HCH	µg/l	ANtt/7.2/RES/01: 201	10.0	No relaxation	BDL (DL - 0.01)
II	Beta HCH	ид/(ANI/7 2/RES/01: 201	8 0.04	No relaxation	BDL (DL = 0.03)
40.	Gamma - HCH (Lindanz)	ug/l.	ANtr/7.2/RE5/01 201	8 2	No relaxation	BDL (DL - 0.03)
IV	Delta-HCH	идл	ANut7_2/RES/01: 201	8 0.04	No relaxation	BDL (DL - 0.01)
W.	Alachlor	др/1	ANtr/7.2/RES/01: 201	N 20	No relaxation	BDL (DL - 0.03)
VI	Aldren	pg/l	ANu/7.2/RES/0): 201	8 0.01	No relaxation	BDL (DL = 0.03)
νîi	Dieldrin	ng/l	ANtr/7,2/RES/01 201	EU.0	No relaxation	BDL (DL - 0.03)
viti	Burachlor	µg/l	ANtr/7 2/RES/01: 201	N 125	No relaxation	BOL (DL - 0:03)
ix.	p.p -DDE	µg/I	ANtr/7 2/RES/01: 201	8 T	No relaxation	BDL (DL = 0.03)
. 7	o.p -DDE	119/1	ANtr/7.2/RES/01 201	8 1	No relaxation	BDL (DL -0.03)
30	p.p -DDD	µg/l	ANtr/7 2/RES/01: 201	8 1	No relaxation	BDL (DL - 0.03)
Xii	n.pDDD	μg/1	ANtr/7 2/RES/01: 201	N I	No relaxation	BDL (DL-0.03)
xiii	0,p - ΩΩΤ	μg/1	ANit/7 2/RES/01: 201	8 1	No relaxation	BDL (DL = 0.03)
XIV	p.p'- DOT	μg/1	ANIE/7 2/RES/01 201	8 1	No relexation	BDL (DL-0.03)
N	Monocratophos	µg/1	ANU/7 2/RES/01: 201	8 1	No relaxation	BDL (DL~0.03)
xvi	Atrazine	ug/l	ANtr/7.2/RES/01: 201	8 2	No relaxation	BDL (BL - 0.03)
XVII	Parathion methyl	ng/t	-ANtr/7,2/RES/01: 201	8 0.3	No relaxation	BDL (DL - 0.03)
XVIII	Parnoxon methyl	µg/l	ANG/7.2/RES/01 20)	8		BUL (DL - 0.03)
XIX	Malathien	µg/l	AMb/7.2/RES/01-201	8 190	No relaxation	BDL (DL - 0.03)
NN-	Malaconin	µg/l	ANIt/7.2/RES/01:201	8		BDL (DL - 0.03)
XXL	Ethion	µg/1	ANtr/T,2/RES/01 201	8 3	No relaxation	BDL (DL +0.03)
XXII	Chlorpyrifos	µg/l	ANtr/7 2/RES/01: 201	8 30	No relaxation	BDL (DL -0.03)

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IE: 10500:2012, for tests conducted only.

Verified By

Swati Gondhalekar Deputy Technical Marager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Test Report No.	: ALPL/31102023/	I-21A dated	31/10/2023		Page 1 o	f 3
Issued To : M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No. Inward Date Reference Reference Date	ALPL/2310 23/10/2023 W.O 4700 22.03.2022	2023/ENV-261-2 098928/962	Analysis Start Analysis End Report Issue Date Sample Category	23/10/2023 30/10/2023 31/10/2023 Water
Sample Name Drinking Water	Sample Source Outlet Water	Sample Particulars Sample Code-DW-2		imple Condition ed & Ice Preserved	Quantity Re 5.0 Ltr & 2	
	e Collected By Representative	Sampling Di 18/10/2023		Sampling Time .15am to 3.40 pm	Sampling Lo JWIMM Outlet (

TEST RESULTS

S.N.	Test Parameter	Messurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	-4.4
1	Biological Testing 1. Water					
1	Escherichia voll	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing I. Water					
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23) : 1986	200	600	42.19
3	Anionic surface active agents (as MBAS)	mg/J	IS 13428 : (Annex K): 2005	0.2	1,0	BDL (DL - 0.01)
4	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1
5	Cyanide (as CN)	mg/l	15 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL = 0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32):1988	250	1000	15.73
7	Calcium (as Ca)	mg/l	15 3025 (Purt 40) = 1991	75	200	21.46
8	Free residual chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	1	BDL (DL = 0.1)
9	Fluoride (as F)	rug/l	IS 3025 (Purt 60): 2008	0.1	1,5	BDL (DL - 0.1)
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	100	3.97
11	Nitrate (as NO ₅)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	BDL(DL-2)
12	Odour		1S 3025 (Part 5): 2018	Agreeable	Agrecable	Agreeable
13	pH		IS 3025 (Part 11) 2022	6,5 to 8,5	No relexation	6.87 at 25°C
14	Phenolic compounds (as C, H, OH)	rog/l	IS 3025 (Part 43) : 2022	1.00.1	0.002	BDL (DL -0,001)
15	Sulphate (as SO ₄)	mg/I	IS 3025 (Part 24) : 2022	200	400	5.19
16	Taste	10.2	IS 3025 (Part 8) : 1984	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/I	18 3025 (Part 16): 1984	- 500	2000	291
18	Turbidity	NTU	18 3025 (Part 10): 1984		5	0.1
19	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21): 2009	200	600	69.95

Please refer last Page for Note and Hemarks.

Verified By

Special Raut Deputy Technical Manager Authorized Signatories

Pooja Kathare Dr. (M) Technical Manager Qu



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Test Report

Test Report No. :	ALPL/31102023/	1-2 A dated	31/10/2023	Page 2 o	£ 3
Issued To : M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No. Inward Date Reference Reference Date	ALPL/20102023/ENV-261-2 23/10/2023 W.O 4700098928/962 22:03:2022	Analysis Start Analysis End Report Issue Date Sample Category	23/10/2023 30/10/2023 31/10/2023 Water
Sample Name Drinking Water	Sample Source Outlet Water	Sample Particular Sample Code-DW-	The state of the s	Quantity Re 5.0 Ltr & 2	A Commence
9,000	Representative	Sampling D 18/10/202	The state of the s	Sampling La JWIMM Outlet (

			TEST RESULTS				
S.N.	Test Parameter	Measurement Unit	Test Method	Drinking Wat	ment as per 00 : 2011 er Specifications) nendment No. 4	Test Result	
			150	Acceptable Permissible			
ti	Chemical Testing 2. Residues In Water						
20	Arsenic (ns As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)	
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)	
22	Barium (as Ba)	mg/l	15 3025 (Part 2): 2019	0.7	No relexation	BDL (DL = 0.01)	
23	Boron (as B)	mue't	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)	
24	Copper (as Cu)	mg/l	15 3025 (Part 2): 2019	0,05	1.5	BDL (DL = 0.03)	
25	Cadmium (as Cd)	mg/l	18 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL = 0,001)	
26	Iron (as Fe)	mg/l	IS 3025 (Part 2) 2019	1.0	No relaxation	0.06	
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)	
28	Manganese (as Mn)	mg/l	IS 3025 (Pan 2) 12019	0.1	0.3	BDL (DL - 0.05)	
29	Mercury (as Hg)	mg/i	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)	
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) / 2003	0.01	No relaxation	BDL (DL-0.001)	
31	Total Chromium (as Cr)	mg/l	1S 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)	
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2) 2019	5	15	BDL (DL - 0.1)	
13	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7,2/RES/01; 2018	0.1	No relaxation	BDL(DL-0.03)	
34	Mineral Oil	mg/l	ANtr/7.2/RES/06: 2018	1	No relaxation	BDL (DL - 0.001)	

Please refer last Page for Note and Remarks.

Verified By

Nidhi Dubey Doouty Technical Manager Swatt Gondhalekar Deputy Technical Manager Authorized Signatory



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Test Report

Test Report No.	: ALPL/31102023/	I-2 A dated	31/10/2023	Page 3 c	of 3
Issued To : M/s Joda West Iron Mine (M/s TATA Steel I		Sample Inward No. Ioward Date Reference Reference Date	ALPL/23102023/ENV-261-2 23/10/2023 W.O 4700098928/962 22/03/2022	Analysis Start Analysis End Report Issue Date Sample Category	23/10/2023 30/10/2023 31/10/2023 Water
Sample Name Drinking Water	Sample Source Outlet Water	Sample Particular Sample Code-DW-		Quantity Re 5.0 Ltr & 2	
	Representative	Sampling D 18/10/202		Sampling L JWIMM Outlet (

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Requirement as per 15 10500 : 2012 Test Method (Drinking Water Specifications) Including Amendment No. 4		er Specifications)	Tesi Result				
				Acceptable Limit	Permissible Limit#					
35	Pesticide Residues Organochlorine									
1	Alpha-HCH	µg/I	ANtr/7.2/RES/01: 201	10.0	No relaxation	BDL (DL - 0.01)				
- 11	Beta HCH	jig/l	ANti/7.2/RES/01.20	8 0.04	No relaxation	BDL (DL - 0.03)				
iii	Gamma - HCH (Lindane)	μυ/Ι	ANtr/7.2/RES/01: 201	8 2	No relavation	BDL (DL = 0.03)				
W	Delta- HCH	µg/I	ANtr/7.2/RES/01: 20	8 0,04	No relaxation	BDL (DL - 0.03)				
V	Alachlor	μg/1	ANtr/7.2/RES/01.201	8 20	No relaxation	BDL (DE - 0.03)				
Vi.	Aldrin	μη/1	ANtr/7_2/RES/01:207	8 0.03	No relaxation	BDL (DL - 0.03)				
yii	Dieldrin	μg/I	ANtr/7,2/RES/01 20	N 0.03	hig relaxation	BDL (DL - 0.03)				
vin	Butachlor	иш/1	ANtr/7.2/RES/01: 20	8 125	No relaxation	BDL (DL - 0.03)				
ix	p.p -DDE	μg/1	ANW/7.2/RES/01: 201	8 I	No relaxation	BDL (DL - 0.03)				
X	o,p'-DDE	µg/l	ANtr/7.2/RES/U1: 20	8	No relexation	BDL (BL - 0.03)				
XI	p.p'-DDD	μμΛ	ANtr/7-2/RES/01: 20	8 1	No relaxation	BDL (DL - 0.03)				
NII	o,p'-DDD	µµ/t	ANtr/7.2/RES/01: 20	8 1	No relaxation	BDL (DL - 0.03)				
Niii	a.pDDT	µg/1	ANto/7.2/RES/01: 20	8 I	No relaxation	BDL (DL - 0.03)				
xiv	p.p DOT	μg/l	ANII/7.2/RES/01.20	8 1	No relaxation	BDL (DL - 0.03)				
XV.	Monocratophos	µg/I	ANtr/7.2/RES/01: 20	8 1	No relaxation	BUL (DL = 11.03)				
TVE	Atrazine	µg/l	ANtr/7 2/RES/01: 20:	8 2	No relaxation	BDL (DL-003				
XVII	Parathion methyl	µg/I	ANu/7.2/RES/01:20	8 03	No refexation	BDL (DL - 0.03)				
xyiii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01:20	8		BDL (DL - 0.03)				
xix	Malathien	μυ/1	ANtr/7.2/RES/01: 20	8 190	No relexation	BDL (DL - 0.03)				
XX	Malaoxon	1/4/1	ANItr/7.2/RES/01: 20	8		BDL (DL + 0,03)				
XXI	Ethion	µg/1	ANtr/7.2/RES/01:20	18 3	No relevation	BDL (DL + 0.03)				
xxii	Chlorpyrifos	μg/1	ANtr/7,2/RES/01-20	8. 30	No relaxation	BDL (DL - 0.03)				

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REMARKS: As requested by the client, sample was tested for allows parameters only. Sample complian with E:10500:2012, for tests conducted only.

Verified By

Deale

Swati Gondhalekar Deputy Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report-



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Test Report

	092023/1-26	dated 30/09/2023			Page	1 of 1
ed)		 ALPL/25092023/ENV 25/09/2023 W.O 4700098928/96 22.03.2022 		Analysis S Analysis I Report Is: Sample C	ind sue Date	25/09/2023 30/09/2023 30/09/2023 Water
Sample Name Sample Source Surface Water Sona River		Sample Particulars Sample Co Sample Code-SW-1 & 2 Sealed & Ice				
Sample Collected By Anacon Representative 2		Sampling Time 12.40 pm to 4.35 pm		hutting befor		(Sona River)-SW-
	21/09/2023	12.40 pm to 4.35 pm	_			Keth-hutting before H-quarry (S Keth-hutting after H-quarry (S

TEST RESULTS

				Standards	Test	Result				
S.N.	Test Parameter	Vicasorement Unit	Test Method	as per 18 2296:1992 Class C	SW-I	sw-2				
T.	Biological Testing L.Water	200000000000000000000000000000000000000	THE RESIDENCE OF		\$					
T	Coliform	MPN/100mi	15 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)				
11	Chemical Testing 1.Water	Chemical Testing 1.Water								
2	pH value	-	1S 3025 (Part 11) : 2022	6.0 to 9.0	7.91 at 25°C	8.16 at 25°C				
3	Colour	Hazen units	(S:3025 (Part 4) , 2021	300	32	26				
4	Dissolved Oxygen	mg/l.	IS 3025 (Part 38) 1989	4.0	6,8	6.3				
5.	Total Suspended Solid (vs TSS)	mg/l	IS 1025 (Part 17) 2022	-	42	38				
6	BOD (3 days at 27°C)	mg/l.	15 3025 (Part 44): 1993	3.0	2.17	1.92				
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006		8.14	7.36				
N	Total Dissolved Solids (TDS)	mg/I	15 3025 (Part 16): 1984	1500	1461	1294				
9	Copper (as Cu)	mg/l	IS 3025 (Part 2) 2019	1.5	0.06	0.03				
10	Chloride (m. Cl)	mg/l	15 3025 (Part 32) (1988	600	56.21	48.91				
11	Sulphate (in SO ₄)	mg/l.	IS 3025 (Part 24): 2022	400	104.73	94.27				
12	Nitrate (as NO)	mg/I	IS 3025 (Part 34): 1988	50	21.43	18.71				
13	Fluoride (as F)	mg/l	15 3025 (Part 60) 2008	1.5	0.56	0.48				
14	Cyanide (as CN)	treg/L	IS 3025 (Part 27) 1986	0.05	BDL(DL-0.005)	BDI.(DL-0.005)				
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0,001)				
16	Anionic Detergent	mg/l	IS 13428 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)				
	Chemical Testing 2. Residues In									
17	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.5	0.34	0.28				
18	Cadmium (as Cd)	me/l	1S 3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)				
19	Selenium (as Se)	mg/l	IS 3025 (Part 56) 2003	0.05	BDIADL-0.11	BDL(DL-0.1)				
20	Arsenic (as As)	mg/l	18 3025 (Part 37) - 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)				
21	Lead (as Pb)	mg/l	1S 3025 (Part 47): 2003	1.0	BDL(DL-0.1)	BDL(Dt=0.1)				
22	Zinz (as Zn)	mg/I	15 3025 (Part 2) . 2019	15	BDL(DL-0.1)	BDL(DL-01)				
23	Hexa Chromium (as Cr*)	mg/I	IS 3025 (Part 2) 2019	0.05	BDL(DL-0.1)	BDL(DL-0.1)				
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	-4-	BDL(DL-0.01)	BDL(DL-0.01)				
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	-	BDL(DL-0.1)	BDL(DL-0.1)				

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Results shall be referred in tested sample(a) and applicable to tested parameters only.

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REMARKS : As requested by the client, sample was tested for above parameters only

Verified By

Vidhi Dubey Deputy Technical Manager Snehal Rant

Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

M/s Joda East Iron Mines (M/s TATA Steel Limited) Inward Referen		92023/1-27 Sample Inward No. Inward Date Reference Reference Date	dated 30/09/2023 ALPL/25092023/ENV 25/09/2023 W.O 4700098928/96 22.03.2622	Analysis ! Analysis ! Report Ix Sample C	End sue Date	Page 1 of 1 25/09/2023 30/09/2023 30/09/2023 Water	
Sample Name Surface Water	The state of the s	mple Source am 2. Downstream	Sample Particulars Sample Code-SW-3 & 4	Sample Con- Scaled & Ice P	The second secon		atity Received
Sample Collected By Sampling Date Anacon Representative 21/09/2023			Sampling Time 12.40 pm to 4.35 pm	Sampling Location 1. Pichlaghat upstream-SW-3 2. Pichlaghat downstream-SW-4			
			TEST RESULTS				

		4.60		Standards	Test 1	Result
S.N.	Test Parameter	Measurement Unit	Test Method	2296:1992 Class C	SW-3	SW-4
L	Biological Testing 1.Water	William William Town				
1	Coliform	MPN/100ml	TS 1622 - 1981	5000	BDL(DL-2)	BDL(Dt2)
11	Chemical Testing L.Water					
2	phi value		IS 3025 (Part 11): 2022	6,0 to 9.0	7.92 at 25°C	7.64 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) : 2021	300	26	21
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38):1989	4.0	6.4	5.8
5	Total Suspended Solid (as TSS)	rng/t	IS 3025 (Part 17) 2022	34201	24	16
Ď	HOD (3 days at 27°C)	mg/I	1S 3025 (Part 44) 1993	3.0	2.71	2.64
7	Chemical oxygen deniand	mg/l	(S 3025 (Part 58) 2006	1	7.57	6.91
8	Total Dissoived Solids (TDS)	my/i	IS 3025 (Part 16): 1984	1500	1251	1164
9	Copper (as Cirl	mg/l	IS 3025 (Part 2) - 2019	1.5	0.06	0.03
10	Chloride (as Cl)	mg/l	15 3025 (Part 12) 1988	600	62.81	57.26
11	Sulphate (as SO ₄)	mg/l	15 3025 (Part 24) , 2022	400	116.59	103.82
12	Nitrate (as NO _i)	mg/l	IS 3025 (Part 34) 1988	50	21.27	18.43
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.5	0.56	0.41
14	Cyanide (as CN)	mg/l	15 3025 (Part 27) 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0,001)
16	Annunic Detergent	rng/l	1S 13428 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)
-	Chemical Testing 2. Residues In				Busiles sivily	treestore oroty
17	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	0.5	0.43	0.38
18	Cadmium (as Cd).	mg/l	IS 3025 (Part 41) 1992	10.0	BDL(DL-0.1)	BDL(DL-0.1)
19	Selenium (as Se)	mg/l	IS 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(D(-0.1)
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	9.2	BDL(DL-0.05)	BDL(DL-0.05)
21	Lead (as Pb)	mg/I	15 3025 (Part 47) 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)
22	Zinc (as Zn)	mg/I	IS 3025 (Part 2): 2019	18	BDL/DL-0.11	BDL(DL=0.1)
23	Hexa Chronnum (as Cr)	mg/l	15 3025 (Part 2) :2019	0.05	BDL(DL-0.1)	BDL(DL-0.1)
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	-	BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	- 6	BDL(DL-0.1)	BDL(DL-0.1)

NOTES:

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REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Nidhi Dubey Deputy Technical Manager

Spenal Faut Deputy Technical Manager Authorized Signatories

Poopa Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Test Report No.: ALPL/30092023/1-28			dated 30/09/2023	dated 30/09/2023			1 of 1
Issued To: M/s Joda East Iron Mines (M/s TATA Steel Limited)		Inward Date 25/09/2 Reference W.O	25/09/2023	.O 4700098928/962		Analysis Start 25/09/2 Analysis End 30/09/2 Report Issue Date 30/09/2 Sample Category Water	
Sample Name Surface Water	Contract Contract		Sample Particulars Sample Code-SW-5	Sample Con Scaled & Ice P	CONTRACTOR OF THE PARTY OF THE		tity Received
	Sample Collected By Sampling Date Anacon Representative 21/09/2023		Sampling Time 12.40 pm to 4.35 pm	5. Gurubed	Sampling Location 5. Gurubeda Baltarani River-SW-5		
			TEST RESULT	S			

-	Tark Wilson and an	Measurement		Standards as per	Test Result	
S.N.	Test Parameter	Unit	Test Method	15 2296:1992 Class C	SW-5	
1	Biological Testing 1, Water					
1	Coliform	MPN/100ml	IS 1622: 1981	5000	BDL(DL-2)	
u	Chemical Testing 1.Water					
2	pH value	- × - 1	IS 3025 (Part 11): 2022	6.0 to 9.0	8.14 at 25°C	
-1	Colour	Hazen units	IS 3025 (Part 4): 2021	300	32	
4	Dissolved Oxygen	mg/l	1S 3025 (Part 38) 1989	4.0	6.7	
5	Total Suspended Solid (as TSS)	mg/I	IS 3025 (Purt 17) 2022		42	
6	BOD (3 days at 27°C)	mg/l	1S 3025 (Part 44) :1993	3.0	2.68	
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) 2006	_	7.52	
18	Total Dissolved Solids (TDS)	mg/l	15/3025 (Part 16): 1984	1500	1281	
9	Copper (ns Cu)	mg/l	15 3025 (Part 2) 2019	-15	0.06	
10	Chloride (as Cl)	idg/I	1S 3025 (Part 32) 11988	600	52.81	
11	Sulphate (as SO ₄)	mg/I	15 3025 (Part 24) : 2022	400	132.58	
12	Nitrate (as N(3)	mg/l	IS 3025 (Pari 34) 1988	50	21.54	
13	Fluoride (ns F)	mg/l	15 3025 (Part 60) : 2008	1.5	0.28	
.14.	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	BDL(DL-0.005)	
15	Phenolic compounds (as C6H5OH)	mg/t	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	
16	Anionic Detergent	mg/l	IS 13428 2005 Annex K	1.0	BDL(DL-0.01)	
	Chemical Testing 2. Residues la	Water				
17	leon (as Fe)	mg/f	15 3025 (Part 2): 2019	0.5	0.41	
18	Cadmium (as Cd)	mg/I	IS 3025 (Part 41) 1992	10.0	BDL(DL-0.1)	
.19	Selenium (as Se)	mg/l	IS 3025 (Part 56): 2003	0.65	BDL(DL-0.1)	
20	Arsenic (as As)	mg/l	15.3025 (Part 37) 2022	0.2	BDL(DL-0.05)	
21	Lead (as Pb)	mg/l	IS 3025 (Part 47): 2003	0.1	BDL(DL-0.1)	
22	Zinc (as Zn)	mg/l	18 3025 (Part 2) 2019	15	BDL(DL-0.1)	
23	Hexa Chromium (as Cr**)	mg/l	IS 3025 (Part 2) 2019	0.05	RDL(DL-0.1)	
24	Moreury (as fig)	me/I	15 : 3025 (Part 38) : 1994		801/01-0:00	
25	Manganese (as Mn)	mg/I	IS 3025 (Part 2) 2019		80C0L-0.15	

NOTES:

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"mg/" is opposite to "ppm".

BDL-Below detection limit

ITL- Indicates detection limit of intrament method and shall be considered as: about

REMARKS: As requested by the client: sample was tested for above parameters only

Verified By

Nidhi Dubey

Deputy Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

---End of Report----





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Test Report No. :	Test Report No.: ALPL/30092023/1-29			dated 30/09/2023 Page 1 of 1				
Issued To: Sam M/s Joda East Iron Mines (M/s TATA Steel Limited) Refe		Sample Inward No. Inward Date Reference Reference Date	PO-20-00		Analysis Start 25/09/ Analysis End 30/09/		25/09/2023 30/09/2023 30/09/2023 Water	
Sample Name Surface Water	[4] [4] [4] [4] [4] [4] [4] [4] [4] [4]		Sample Particulars Sample Code-SW-6 & 7	the state of the s	CALL AND A CONTROL OF THE CALL		antity Received	
Sample Collected By Anacon Representative		Sampling Date 21/09/2023	Sampling Time 12.40 pm to 4.35 pm		aria Upstrea	ng Location m (Baitaran		
			TEST RESULTS					

				Standards	Test	Result
S.N.	Test Parameter	Measurement Unit	Test Method	as per IS 2296:1992 Class C	SW-6	SW-7
4	Biological Testing 1.Water					
1	Coliforn	MPN/100ml	15 1622 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing L.Water					
2	pl i vaine		IS 3025 (Part 11) : 2022	6.0 to 9.0	7.87 at 25°C	7.91 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) 2021	300	16	12
4	Dissolved Oxygen	mg/l	1S 3025 (Part 38):1989	4.0	6.4	5.7
5	Total Suspended Solid (as TSS)	mg/I	15 3025 (Pari 17) 2022		32	28
6.	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) (1993)	3.0	2.59	2.47
7	Chemical oxygen demand	mg/l	15-3025 (Part 58) .2006	-	9.16	7.68
8	Total Dissolved Solids (TDS)	mg/l	(S 3025 (Part 16) - 1984	1500	1452	1356
9	Copper (m: Cu)	mg/l	15 3025 (Part 2) 2019	1.5	0.06	0.04
10	Chloride (as CI)	mg/l	IS 3025 (Part 32) 11988	600	52.81	48,36
11	Sulphate (as SO ₄)	nig/L	15 3025 (Part 24) 2022	400	102.76	97.18
12	Nitrate (as NO ₁)	mg/l	- 1S 3025 (Part 34) 1988	50	17.24	16.43
13	Fluoride (as F)	mg/I	(S 3025 (Part 60) 2008	15	0.56	0.51
14	Cyanide (as L'N)	my/l	IS 3025 (Part 27) 1986	0.05	BDL(DL-0.005)	IIDL(DL-0.005)
1,5	Phenolic compounds (as C6H5OH)	mg/I	1S 3025 (Part 43):1001	0,005	BDL(DL-0.001)	BDL(DL-0.001)
16	Attonic Detergent	mg/l	IS 13428 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)
- 7	Chemical Testing 2, Residues In	Water				200000000000000000000000000000000000000
17	Iron (as Fe)	mg/l	IS-3025 (Part 2) 2019	0.5	0.42	0.38
1.8	Cadmium (as Cd)	mg/l	18:3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)
19	Selenium (as Se)	mg/I	IS 3025 (Part 56) 2003	0.05	BDL(DL-0.1)	BDL(DL=0.1)
20	Amenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
21	Lead (as Pb)	mg/l	15 3025 (Part 47) - 2003	0.1	BDL(DL-0.1)	BDL(DL-0.))
22	Zinc (as Zn)	nte/l	15 3025 (Part 2) . 2019	19	BDL/DL-0.15	BDL(DL-0.1)
23	Hexa Chromium (as Cr*4)	mg/l	IS 3025 (Part 2) .2019.	0.05	BDL(DL-0.1)	BDL(D10.1)
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48) 1994		BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/I	15 3025 (Part 2) 2019		BDL/DL-0.11	BDL/DE-0.11

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REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Nidhi Dubey

Denniy Technical Manager

Snohiti Raut

Deputy Technical Manager

Authorized Signatories

Pooja-Kathuje Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

2023/1-30	dated 30/09/2023				Page I of I
Issued To: M/s Joda East Iron Mines (M/s TATA Steel Limited) Sample Inward No Inward Date Reference Reference Date		ALPL/25092023/ENV-235-SW-8 & 9 25/09/2023 W.O 4700098928/962 22/03/2022		Analysis Start Analysis End Report Issue Date Sample Category	
ample Name Sample Source urface Water Pond		THE RESERVE AND A STATE OF THE PARTY OF THE	Section 2		
Sampling Date 21/09/2023	Sampling Time 12.40 pm to 4.35 pm	Sampling Location 1. Pond In Palasa(Kha) Village-SW-8			Cons
	Inward Data Reference Reference Date nple Source Pond Sampling Date	Sample Inward No. ALPL/25092023/ENV Inward Data 25/09/2023 Reference W.O 4700078928-96. Reference Date 22/03/2022 nple Source Sample Particulars Sample Code-SW-8 & 9 Sampling Date Sampling Time	Sample Inward No. ALPL/25092023/ENV-235-SW-8 & 9	Sample Inward No. ALPL/25092023/ENV-235-SW-8 & 9 Inward Date 25/09/2023 Analysis El Reference W.O. 4700078928/962 Report Issue Reference Date 22/03/2022 Sample Condition Sample Source Sample Particulars Sample Code-SW-8 & 9 Sealed & Ice Preserved Sampling Date Sampling Time Sampling 1 Pond In Palasa(Kha	Sample Inward No. ALPL/25092023/ENV-235-SW-8 & 9 Analysis Start Inward Data 25/46/2023 Analysis End Reference W.O. 4700078928/962 Reference Date 22/03/2022 Reference Date 22/03/2022 Sample Category Sample Source Sample Particulars Sample Condition Quan Pond Sample Code-SW-8 & 9 Sealed & Ice Preserved 2.0 Ltd Sampling Date Sampling Time Sampling Location

TEST RESULTS

				Standards as	Test	Result		
S.N.	Test Parameter	Measurement Unit	Test Method	per 18 2296:1992 Class C	SW-8	5W-9		
1	Biological Testing L.Water							
1-	Coliform	MPN/100ml	1S 1622 1981	5000	BDL(DL-2)	BDL(DL-2)		
11	Chemical Testing 1.Water							
2	pH value	The set and the	15 3025 (Part 11) 2022	6.0 to 90	7:16 at 25°C	6.81 at 25°C		
3	Colour	Hazen units	IS 3025 (Part 4): 2021	300	12	8		
4	Dissolved Oxygen	mg/l	(5 3025 (Part 38), 1989	4.0	6.7	6.4		
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17) 2022	-	43	38		
6	BOD (3 days at 27°C)	mg/l	(S 3025 (Part 44) (1993	3.0	2.64	2.52		
7	Chemical oxygen demand	mg/l	1S 3025 (Part 58) :2006	12/	8.16	7.91		
8	Total Dissolved Solids (TDS)	cmg/f.	15 3025 (Part 16) 1984	1500	1471	1389		
9	Copper (as Cu)	mg/l	IS 3025 (Part 2) -2019	15	0:04	0.03		
10	Chloride (as Cl)	mu/l	18 3025 (Part 32):1988	600	113.52	109.52		
11	Sulphate (as SO ₁)	hig/l	1S 3025 (Part 24) 2022	400	64.27	56.39		
12	Nitrate (as NO ₃)	mg/l	15 3025 (Part 34) 1988	50	21.54	18.72		
13	Fluoride (as F)	mg/!	15 3025 (Part 60) . 2008	15	0.46	0.38		
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)		
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)		
16	Anionic Detergent	mg/l	1S 13428 2005 Amex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)		
	Chemical Testing 2 Residues In	Water		1	Director story	0.		
17	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	0.5	0.41	0.38		
18	Cadmium (as Cd)	mg/l	(S 3025 (Part 41) 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)		
19	Selenium (as Sc)	mg/I	18 3025 (Part 56) - 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)		
20	Arxenic (as As)	mg/I	IS 3025 (Part 37) : 2022	0.7	BDL(DL-0.05)	BDL(DL-0.05)		
21	Lend (as Ph)	mg/t	IS 3025 (Part 47) 2003	0.00	BDL(DL-01)	BDL(DL-01)		
22	Zmc (as In)	mg/l	IS 3025 (Part 2): 2019	15	BDL(DL-0 ()	BDL(DL-0.1)		
23	Hexa Chromium (as Cr 1	mg/l	18 3025 (Part 2) 2019	0:05	BDL(DL-0.1)	BDL(DL-0.1)		
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	-	BDL(DL-0.01)	BDL(DL-0.01)		
25	Manganese (as Mn)	лууЛ	15 3025 (Part 2) . 2019		BDL(DL-0.1)	BDL(DL-0.1)		

NOTES:

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"mg/l" is equivalent to "ppm".

HDL-Below detection limit.

DL-Indicates detection limit of perishable and shall be considered as "absent."

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Nidhi Dubey Deputy Technical Manager

Snehal Raus Deputy Technical Manager Authorized Signatories

Prote Kathaya Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

---End of Report----





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Test Report

Test Report No. :	ALPL/3009	92023/1-31	dated 30/09/2023			Page	l of l
Issued To: M/s Joda East Iron Mines (M/s TATA Steel Limited)		Sample Inward No Inward Date Reference Reference Date	 ALPI/25092023/ENV-235-SW-10 & 1 25/09/2023 W.O 4700098928/962 22.03.2022 		Analysis End 30/09/20		25/09/2023 30/09/2023 30/09/2023 Water
Sample Name Surface Water	9.25	mple Source and & River	Sample Particulars Sample Code-SW-10 & 11				
Anacon Representative 21/09/2023		Sampling Time 12.40 pm to 4.35 pm	2. SONA	Sampling Location L. Pond near 51 highschool, Bhuyan Rolda- 2. SONA RIVER (KANDRA VILLAGE) BEFOR CONFLUENCE WITH BATTARAN RIVER-			
			TEST RESULTS				

			TEST RESULTS			
		100		Standards as	Test	Result
S.N.	Test Parameter	Measurement Unit	Test Method	per IS 2296:1992 Class C	SW-10	SW-11
1	Biological Testing L.Water					
	Coliform	MTN/100ml	15 1622 (1981)	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing L.Water					
2	pH value		6% 1025 (Part 11): 2002	6.0 to 5.0	6.94 at 25°C	6.81 m 25°C
3	Colour	Dazen units	IS 3025 (Part 4): 2021	300	26	21
4	Dissolved Oxygen	mg/I	IS 3025 (Part 38):1989	4.0	6.7	6.4
5	Total Suspended Solid (ns TSS)	mg/f	IS 3025 (Part 17) 2022		38	26
6	BOD (3 days at 27°C)	mg/L	1S 3025 (Part 44) (1993)	3.0	9.17	8.47
1	Chemical oxygen demand	mg/L	1S 3025 (Part 58) 2006	-	3.21	2.94
Я	Total Dissolved Solids (TDS)	mg/I	1S 3025 (Part 16), 1984	1500	1452	1391
9	Copper (as Cu)	me/l.	18 3025 (Part 2) 2019	15	0.06	0.03
10	Chloride (as Cl)	mg/l	1S 3025 (Part 32) : (988	600	82.76	76.92
11	Sulphate (ns SC4)	mg/l	US 3025 (Puri 24) - 2022	400	101:52	94.26
12	Nitrate (as NOh)	me1	15 3025 (Part 34) 1988	50	21.46	18.43
13	Finande (as F)	mg/t	(\$ 3025 (Part 60) , 2008	1.5	0.71	0.64
14	Cyanide (as UN)	mg/l	IS 3025 (Part 27) 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005
15	Phenolic compounds (as C6H5OH)	mg/l	(S 3025 (Part 43) :1001	0.005	BDL(DL-0.001)	BDL(DL-0,001)
16.	Anioniz Detergent	mg/l	IS 13428 - 2005 Annex K	1.0	BDL(bL-0.01)	BDL(DL-0.01)
	Chemical Testing 2. Residues In				2-03-00-30-30-3	Distance over)
17	Iron (as Fg)	mg/t	1S 3025 (Part 2) 2019	0.5	0.42	0.37
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41): 1992	0.01	BDL(Dt-0.1)	BDL(DL-0.1)
19	Sclemum (as Se)	mg/l	(S 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL/DL-0.13
20	Arsenic (as As)	mg/t	15 3025 (Part 37) 2022	0.2	BDL(D1-0.05)	DDL(DL-0.05)
21	Lead (as Pb)	mg/l	1S 3025 (Part 47) : 2003	0.1	BDL(DE-0.1)	BDL(DL-0.11
22	Zinc (as Zn)	mg/I	IS 3025 (Part 2): 2019	15	BDL(DL-0.1)	BDL(DL-0.1)
23	Hexa Chromium (as Cr*)	mg/l	IS 3025 (Part 2) 2019	0.0≤	BDL(DL-0.1)	BDL(DL-0.1)
24	Mercury (as Hg)	mg/l	IS 3025 (Part 48) 1994		BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2) 2019	-	BDL(DU-0.1)	BDL(DL-0.1)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested samplicis) and applicable to tested parameters undy
• Test report shall not be reproduced except in full without prior written approval of Ameson Labs. • Liability of Ameson Labs in immedia to invocated ameson only. • Non-periodable and purishable sample(s) shall be disposed off alter 30 days and 15 days respectively from the date of inne of Test Report, unless specified informios. • "mgT is repovalent in "pper". • IEDL.Below detection limit • DL- bullcates detection limit of instrument/method and shall be considered as "absent".

REMARKS: As requested by the client, sample was landed for above parameters only

Verified By

Nighi Dubey Deputy Technical Manager Snehal Raga Deputy Technical Muniger Authorized Signatories

Poors Kuttight Technical Manager Dr. (Mrx.) S.D. Garway Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

QFP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibon, Nagpur, Maharashtra, India 441 122 L = 91 8045685558 ■ Email: info@anacon.in 3 https://www.anaconlaboratories.com

Test Report

Test Report No.: ALPL/300 Issued To: M/s Joda East Iron Mines (M/s TATA Steel Limited)		Sample Inward No. Inward Date Reference Reference Date	nward Date 25/09/2023 teference W.O 4700098928/962		Analysis Start Analysis End Report Issue Date Sample Category		Page 1 of 1 25/09/2023 30/09/2023 30/09/2023 Water
Sample Name Surface Water	200 July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Sample Particulars Sample Code-SW-12 & 13	Sample Cond Sealed & Ice Pr	50.565Y / 50.461	CSEVAL 2011	
Sample Collected By Sampling Date Anacon Representative 21/09/2023		Sampling Date 21/09/2023	Sampling Time 12.40 pm to 4.35 pm		Sampling Location HAITARANI RIVER (KANDARA VILLAGE)-SW- SONA River Near Mahanadi Guest House -SW-		

S.N.	Test Parameter	Nonasurement Unit	Test Method	Standards as per 15 2296:1992 Class C	Test Result	
					SW-12	SW-13
1	Biological Testing L.Water					
1	Coliform	MPN/100ml	IS 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)
11	Chemical Testing 1.Water					
2	pH value	The state of the s	IS 3025 (Part 11) 2022	6.0 to 9.0	7,91 at 25°C	K.12
3	Colour	Hazen units	IS 3025 (Part 4) 2021	350	16	12
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38) 1989	4.0	6.7	6.4
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17) 2022	-	42	38
6	BOD (3 days at 27°C)	mg/l	15 3025 (Part 44) ,1993	3.0	2.71	2.68
7	Chemical oxygen demand	mg/l	1S 3025 (Part 58) 2006		8.19	6.92
8	Total Dissolved Solida (TDS)	mg/l	IS 3025 (Part 16): 1984	1500	1481	1387
.9	Copper (as Cu)	mu/t	1S 3025 (Part 2) -2019	15	0.06	0.04
10	Chloride (as Pi)	Agm	IS 3025 (Part 32):1988	600	92.81	84.26
11	Sulphate (as SO ₄)	mg/l	18 3025 (Part 24) 2022	400	101.73	94.81
12	Nitrate (as NO.)	mg/l	15 3025 (Part 34) : 1988	50	17.32	16.44
13	Fluoride (av F)	mg/l	15 3025 (Part 60) : 2008	137	0.53	0.48
14	Cyanide (as CN)	mg/l	1S 3025 (Part 27) : 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)
15	Phenolic compounds (as C6H5OH)	mg/l	1S 3025 (Part 43):1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)
16	Anionic Detergent	mg/l	IS 13428 2005 Annex K	1.0	BDL(DL-0.01)	BDL/DL+0.01)
	Chemical Testing 2, Residues In Water					
12	Iron (as Fe)	mse/l.	1S 3025 (Part 2): 2019	0.5	0.42	0.38
18	Cadmium (as Cd)	mg/t	15 3025 (Part 41): 1992	0.01	BDL(DL-0.1)	BDL(DL-0.1)
19	Selemum (us Se)	mg/l	1S 3025 (Part 56) : 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
20	Arsenic (us As)	mg/l	IS 3025 (Part 37) 2022	0.2	BDL/DL-0.05)	BDL(DL-0.05)
21	Lend (as Pb)	muit	IS 3025 (Part 47) - 2003	0.1	BDL(DL-0,1)	BDL(DL-ILI)
22	Zinc (as Zn)	mg/l	15:3025 (Part 2): 2019	15	BDL(DL-0.1)	BDL(DL-0 ()
23	Hexa Chromium (as Cr	mg/l	15 3025 (Part 2) 2019	0.05	BDL/DL-0.1)	BDL(DL-0 ()
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994		BDL(DL-0.01)	BDL(DL-0.01)
25	Manganese (as Mn)	mg/t	1S 3025 (Part 21 - 2019	-	BDL(DL-0.1)	BDL(DL-0.1)

NOTES:

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Results shall be referred to tested sample(s) and applicable to tested parameters only.

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Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of cause of Test Report, unless specified otherwise.

"mg/f" is equivalent to "ppm".

BDL-Befow detection limit.

DL-Tadicates detection limit of instruments/method and shall be considered as: "absent".

REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Nidhi Dubey Denuty Technical Manager Deputy Technical Manager

Authorized Signatories

Poots Kathane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

End of Report-





Anacon Laboratories

Angeon Laboratories Pvt. Ltd. Nagpur Lab

QFP-34, 35, Foud Park, Five Star Industrial Estate. MIDC Builbon, Nagpur Maharashtra, India - 441 122 C+91 8045685558 ■ Email: Info@anacon In O https:// www.anaconlaboratories.com

Test Report

Test Report No. : /	LPL/300	92023/1-33	dated 30/09/2023		Pa	ge 1 of 1	
Issued To: M/s Joda East Iron Mines (M/s TATA Steel Limited)		Sample Inward No Inward Date Reference Reference Date	70020 20000 2000		Analysis Start 2: Analysis End 3: Report Issue Date 3:		25/09/2023 30/09/2023 30/09/2023 Water
Sample Name Surface Water	Sa	mple Source River	Sample Particulars Sample Code-SW-14	Sample Cont Sealed & Ice Pr		Dec 10 10 10 10 10 10 10 10 10 10 10 10 10	tity Received
10 C-V MAX 25 08 11 1 V/1 1 16 1 W		Sampling Date 21/09/2023	Sampling Time 12.40 pm to 4.35 pm	Sampling Location 14. BICHAKUNDI VEGITABLE GARDEN POND-SW			
			TEST RESUL	TS			

	Standards as per	Test Res
Test Method	Standards as per 1S 2296:1992 Class C	SW-14

	True Designation	Measurement		Standards as per	Test Result	
S.N.	Test Parameter	Unit	Test Method	IS 2296:1992	SW-14	
1	Biological Testing 1.Water					
- (Coliforn	MPN/100ml	15 1622 : 1981	5000	BDL(DL-2)	
11	Chemical Testing L.Water				secondard as	
- 2	pli value		IS 3025 (Part 11) : 2022	6.0109.0	7.93 at 25°C	
3	Colour	Hazen units	IS 3025 (Part 4) 2021	300	26	
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38) 1089	40	6.3	
5	Total Suspended Solid (as TSS)	mg/L	IS 3025 (Part 17) 2022		32	
- 6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44):1993	3.0	2.81	
7.	Chemical oxygen demand	mg/l	IS 3025 (Part 58) (2006		8.16	
8	Total Dissolved Solids (TDS)	rng/L	1S 3025 (Part 16) : 1984	1500	1387	
9	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	1.5	0.04	
10	Chloride (as CI)	mg/I	1S 3025 (Part 32) :1988	600	51.73	
11	Sulphate (as SO ₄)	mg/L	15.3025 (Part 24) : 2022	400	64.29	
12	Nitrate (as NO ₁)	mg/l	IS 3025 (Part 14) 1988	- 50	12.81	
13	Fluoride (as F)	mg/I	15 3025 (Part 60) : 2008	15	0.36	
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	BDL(DL=0.005)	
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) (100).	0.005	BDL(DL-0.001)	
16	Anionic Detergent	mg/l	1S 13428 - 2005 Annex K	1.0	BDL(DL-0.01)	
- 3	Chemical Testing 2, Residues In	Water				
17	Iron (as Fe)	mg/l.	IS 3025 (Part 2) : 2019	0.5	0.37	
18	Cadmium (as Cd)	mg/t	IS 3025 (Part 41) : 1992	0.01	BDL(DL-0.1)	
19	Sclenium (us Se)	mg/l	1S 3025 (Part 56) 2003	0.05	BDL(DL-0.1)	
20	Arsenic (as As)	rog/l	1S 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	
21	Lead (as Pb)	mg/T	(S 3025 (Part 47): 2003	0.1	BDUDL-0.1)	
22	Zinc (as Zn)	mg/l	IS 3025 (Part 2) 2019	15	BDL(DL-0.1)	
23	Hexa Chromium (as Cr.)	mg/L	1S 3025 (Part 2) 2019	0.45	HDL(DL-0.1)	
24	Mercury (as Fig)	mgT	18 : 3025 (Part 48) : 1994		BDL(DL-0.01)	
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	-	BDL(DL-0.1)	

NOTES:

Please see watermark "Original Test Report" to confirm the authenticity of this report.

Report shall be referred to tested sample(s) and applicable to tested parameters only.

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Liability of Associa Labs is limited to invoiced amount only.

Non-periodable and periodable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of come of Test Report, stitless specified otherwise.

"mg/l" is equivalent to "poin".

Below detection from

OL. Indicates detection limit of necroscial worked and shall be considered as: "absent".

REMARKS: As requested by the client, sample was tested for above parameters prov-

Verified By

Nidhi Dubey Deputy Technical Manager

Snehal Raut Deputy Technical Manager

Poojn Kuthane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

Authorized Signatories

End of Report----



BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA] A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012

Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospcboard.org, Website: www.ospcboard.org

CONSENT ORDER

4234 No.

IND-I-CON- 186

Dt. 12-03.2022

CONSENT ORDER NO. 67

Sub: Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.

Your online application No.3236687, Dated 02.12.2020 and your letter No.MGM/P&E/305/21 Dated 31-12-2021.

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: JODA WEST MANGANESE MINES OF M/S. TATA STEEL LTD.

Name of the Occupier & Designation: SRI AWNISH KUMAR, CHIEF AND AGENT

Address: AT/PO: BICHHAKUNDI, VIA: JODA, DIST: KEONJHAR, PIN:758034

This consent order is valid for the period up to 31/03/2026.

This consent order supersedes the earlier consent order issued vide letter No. 5334, dated 27.03.2021.

Details of Products Manufactured

SI. No	Dradust	
and the same of th	Product	Quantity
01.	Manganese Ore	0.18 MTPA
Details of Mine	eral Handling Plants /Units	U. TO WITPA

Details of Mineral Handling Plants /Units

01 Operation of stationery screening plant 1X70 TPH

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.



A. Discharge permitted through the following outlet subject to the standard

Out let No.	Description of	Point of discharge	Quantity of discharge KL/hr	Pre-scribed Standard				
	outlet			рН	TSS (mg/l)	Oil & Grease (mg/l)	BOD (mg/l)	
01	Septic tank (Domestic effluent)	Soak pit	•	5.5-9.0	200	5 <u>9</u>	100	
02	Mine drainage water/ surface runoff/other wastewater	On land / inland surface water body.	19634 (Monsoon period)	5.5-9.0	100 (Rainy day	10	•	
					50(Non- Rainy day)			

B. Emission permitted through the following stack subject to the prescribed standard

Chimney Stack No.		Description of Stack height (m) Quantity of emission		Prescribed Standard			
				PM (mg/Nm³)	SO ₂	NOx	
					-		

C. <u>Disposal of solid waste permitted in the following manner</u>

SI. No.	Type of Solid waste	Quantity generated (TPD)	Quantity to be reused on site(TPD)	Quantity to be reused off site(TPD)	Quantity disposed off (TPD)	Description of disposal site.
01	Top soil & over burden	As per approved mining plan				As per approved mining plan



CONSENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

D. GENERAL CONDITIONS FOR ALL UNITS

- The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
- The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
- The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
- 4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
- The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
- The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize
 any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
- This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
- 8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
- An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
- The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
- Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance consumer for utilization for any purposes whatsoever.
 Separate meters with necessary pine line for the supplementary processes and point before which water has been taped by the
- 12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
 - Industrial cooling, spraying in mine pits or boiler feed,
 - b) Domestic purpose
 - c) Process
- 13. The applicant shall display suitable caution board at the lace where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
- 14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
- 15. The applicant shall maintain good house keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leakproof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
- 16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
- 17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
- The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
- The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.

 If at any time the disposal of treated offluent as the disposal of treated of treated of treated of treated of the disposal of treated of treated of the disposal of the disposal of treated of the disposal of t
- 20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
- 21. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
- 22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
- 23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
- 24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.

SENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

- The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
- No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of 26 the Board.
- The liquid effluent arising out of the operation of the air pollution control equipment shall to treated in the manner and to ion of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended). 27
- The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time. 28
- There shall not be any fugitive or episodal discharge from the premises. 29
- In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board 30 within 24 hours of occurrence.
- The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily 31. accessible at all times.
- Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post 32 within 24 hours of its occurence.
- The industry has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that 33
- The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive 34 emission, dust problems through leaching etc., of any kind.
- All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by : 35
 - Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
 - Controlled incineration, wherever possible in case of combustible organic material.
 - Composting, in case of bio-degradable material. iii)
- Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of 36 authorization shall be obtained for handling and disposal of hazardous wastes.
- If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, 37. vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
- The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the 38. expiry period of this consent.
- The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent. 39
- Notwithstanding anything contained in this conditional letter of consent, the Board Newsby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as 40 deemed fit for the purpose of the Act by the Board.
- The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) 41. Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
- In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without 42.
- The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is 43 observed and to modify/ stipulate additional conditions as deemed appropriate.



CONSENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

- The applicant shall analyse the emissions every month for the parameters indicated in TABLE. B & C as mentioned in this order and shall furnish the report thereof to the Board by the 10th of the succeeding month. 2.
- The applicant shall provide and maintain at his own cost three ambient air quality monitoring stations for monitoring Suspended Particulate Matter. Sulphor Dioxide, Oxides of Nitrogen, Hydro-Carbon, Carbon-Monixide and monitor the same once in a day/week/fortnight/month. The data collected shall be maintained in a register and a monthly extract be furnished to the Board. 3.
- The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, humidity, rainfall, etc. and the daily reading shall be recorded and the extract sent to the Board once in a month. 4
- The applicant shall forward the following information to the Member Secretary, State Pollution Control Board, Odisha, Bhubaneswar regularly.
- Report of analysis of stack monitoring, ambient air quality monitoring meteorological data as required every month. Progress on planting of trees quarterly.
- b.
- The applicant shall install mechanical composite sampling equipment and continuous flow measuring / recording devices on the effluent drains of 5. trade as well as domestic effluent. A record of daily discharge shall be maintained. 6.
- The following information shall be forwarded to the Member Secretary on or before 10th of every month.
 - a. Performance / progress of the treatment plant.
 - b. Monthly statement of daily discharge of domestic and/or trade effluent.

7 Non-compliance with effluent limitations

- If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the a) following information in writing within 5 days of such notification.
 - i) Causes of non-compliance
 - i) A description of the non-compliance discharge including its impact on the receiving waters.
 - Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the ii)
 - iii) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
 - Steps to be taken by the applicant too prevent the condition of non-compliance. iv)
- The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with b) any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the c)
- Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.
- The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analysed at an approval laboratory every month for the parameters indicated in Part-D and shall submit in duplicate the report thereof to the Board. 9
- The addition of various treatment chemicals should be done only with mechanical dosers and proper equipment for regulation of correct dosers determined daily and for proper uniform feeding. Crude practices such as dumning of chemicals in drains or sumper or trickling of solders. dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids 10
- In the disposal of treated effluent on land for irrigation, the industry shall keep in view of the need for;

Rotation of crops

Change of point of application of effluent on land

A portion of land kept fallow.

- The adoption of these would avoid soil becoming sick or slate, the industry may ensure this in consultation with the Agriculture Department. 11 12
- It is the sole responsibility of the industry to ensure that there are no complaints at any time from the royats in the surrounding areas as a result of discharge of sewage or trade effluent if any. 13
- Proper housekeeping shall be maintained by a dedicated team.
- The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution 14 control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned. Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the



CONSENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

E. SPECIAL CONDITIONS:

- This consent order is subject to compliance of orders of the Hon'ble Supreme Court of India in the matter of W. P. (Civil) 114/2014.
- 2) This consent order is subject to permission from MoEF & CC, Govt. of India and Steel and Mines Department, Government of Odisha for continuing of mining operation.
- The validity of the Consent to Operate is subject to availability of valid mining scheme from IBM, Govt. of India.
- 4) Mining operation is subject to availability of all other statutory clearances.
- 5) Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment.
- 6) Controlled blasting shall be practiced to minimize generation of dust and fly rocks.
- Regular water sprinkling shall be carried out in critical areas prone to air pollution such as around crushing and screening plant. Water sprinkling shall also be carried out on haul roads at frequent interval so that it should always remain in wet condition. Haulage roads shall be devoid of ruts and potholes and shall be maintained properly to avoid generation of dust during movement of vehicles.
- B) Dust suppression measures preferably dry fog system shall be provided at all appropriate places of mineral handling plants (screening plant). Loading the unloading areas including all the transfer points shall also have efficient dust suppression arrangements (dry fog system). These shall be properly maintained and operated.
- 9) Mechanized wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine. The wheel washing facility shall be integrated with complete recirculation system.
- 10) The vehicles carrying ore for transportation from the mine shall be covered with tarpaulin (both bottom & top).
- 11) Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic point on the National Highway shall be done jointly by the mining lessees in consultation with the Regional Officer.
- 12) Four Ambient Air Quality Monitoring Stations shall be established in core zone and buffer zone for monitoring of ambient air quality and location of the stations shall be decided in consultation with the Regional Officer, State Pollution Control Board based on the metrological data, topographical features and environmentally and ecologically sensitive targets.
- 13) The monitoring of ambient air quality shall be carried out twice in a week (24 hourly) at a particular site and the consolidated data shall be submitted to the State Pollution Control Board, once in a year.
- 14) The ambient air quality shall remain within prescribed national ambient air quality standards.
- 15) The top soil generated shall be stored at earmarked site (s) only and stabilized with plantation or shall be used for land reclamation and plantation.

ODISHA

CONSENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

- 16) The over burden generated during the course of mining shall be stacked at earmarked dump site (s) and stabilized with plantation or used for reclamation of excavated land followed by plantation.
- 17) The project proponent shall ensure that no natural watercourse and / or water resources are obstructed due to any mining operations.
- 18) Check dams and check weirs shall be constructed at appropriate places of the mine lease area to prevent direct flow of runoff to nearby water bodies. The surface runoff water from the existing runoff management system shall meet the prescribed standards as stated in Part A (SI No. 2) of the consent order.
- 19) Retention wall shall be constructed at the toe of topsoil dump and OB dump. Garland drain shall be constructed around topsoil dumps, over burden dumps and mineral stack yards terminating at settling pit to prevent direct disposal of runoff to nearby water bodies.
- 20) Garland drain and sedimentation pit shall be de-silted after monsoon or as and when required. The runoff discharge quality from runoff management system shall meet the prescribed standards as stated in Part A (SI No. 2)of the consent order.
- 21) Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:

PH - 6.5 -9.0 TSS - <100 mg/l BOD - 30 mg/l

Fecal Coliform - <1000 MPN/100 ml.

- 22) ETP shall be operated at all time for workshop and wastewater generated during mining operation, if any. The quality of the treated wastewater shall conform to the prescribed standard as stated in Part A (SI No. 2) of the consent order.
- Regular monitoring of water quality of upstream and downstream of surface water bodies existed if any within 5 Km shall be carried out once in every month and record shall be maintained and submitted to the State Pollution Control Board once in every year. Monitoring shall be carried out through MoEF& CC accredited laboratory.
- 24) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.
- 25) The mine shall take necessary action for compliance with the air and water quality standards as stipulated in this order.
- 26) Adequate measures shall be taken for control of noise levels below the following limits.

(6.00 AM - 9.00 PM) - Leq 75 dB(A) (9.00PM - 6.00 AM) - Leq 70 dB(A)

CONSENT ORDER

JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED

- Ambient air quality monitoring data, noise monitoring data and water / wastewater 27) quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine.
- Plantation of trees shall be undertaken in the colony/ township, over top soil dumps, 28) OB dumps, along the side of haul road and in other areas of the mines not being utilized for mining activities. The mine shall take up avenue plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The annual plantation details shall be submitted to the Board by 30th April every year.
- A copy of the annual return (annual return submitted to IBM, Govt. of India/ 29) Directorate of Mines, Govt. of Odisha) shall be submitted to this Board every year.
- The environmental statement report for the financial year ending 31st March shall be 30) submitted to the Board in Form -V on or before 30th September every year.

MEMBER SECRETARY STATE POLLUTION CONTROL BOARD, ODISHA

TO,

SRI AWNISH KUMAR, CHIEF AND AGENT JODA WEST MANGANESE MINES OF M/S. TATA STEEL LIMITED, AT/PO: BICHHAKUNDI, VIA: JODA DIST: KEONJHAR, PIN-758034

Memo No	/Dt	
Carry fanuarded to :		

Copy forwarded to:

- Regional Officer, State Pollution Control Board, Keonjhar i)
- District Collector, Keonjhar ii)
- Director of Mines, Govt. of Odisha, Bhubaneswar
- Director, Environment-cum-Special Secretary, F & E. Dept. Govt. of Odisha, iv) Bhubaneswar.
- D.F.O, Keonjhar V)
- Deputy Director of Mines, Joda vi)
- Addl. Chief Env. Engineer, (Hazardous Waste Management Cell) vii)
- Sr. Env. Scientist, Central Lab. SPCB, Bhubaneswar viii)
- Consent Register ix)

CHIEF ENV. ENGINEER (M) STATE POLLUTION CONTROL BOARD, ODISHA



GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS



GENERAL STANDARDS FOR DISCHARGE OF **ENVIRONMENTAL POLLUTANTS PART -A: EFFLUENTS**

SI.No.	Parameters	Standards					
		Inland surface	Public	Land for irrigation	Marine Costal Areas		
		(a)	(b)	(c)	(d)		
1.	Colour & odour	Colourless/Odou rless as far as practible		See 6 of Annex-1	See 6 of Annex-1		
2.	Suspended Solids (mg/l)	100	600	200	For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.		
3.	Particular size of SS	Shall pass 850					
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0		
6.	Temperature	Shall not exceed 5°C above the receiving water temperature			Shall not exceed 5°C above the receiving water temperature		
7.	Oil & Grease mg/l max.	10	20	10	20		
8.	Total residual chlorine	1.0		122700	1.0		
9.	Ammonical nitrogen (as N) mg/l max.	50	50		50		
10.	Total Kajeldahl nitrogen (as NH ₃) mg/1 max.	100			100		
11.	Free ammonia (as NH ₃) mg/1 max.	5.0	V The second		5.0		
12.	Biochemical Oxygen Demand (5 days at (20°C) mg/1 max.	30	350	100	100		
13.	Chemical Oxygen Demand, mg/1 max.	250			250		
14.	Arsenic (as As) mg/1 max.	0.2	0.2	0.2	0.2		
15.	Mercury (as Hg) mg/1 max.	0.01	0.01		0.001		
16.	Lead (as pb) mg/1 max.	01.	1.0		2.0		



17.	Cardmium (as Cd) mg/1 max.	2.0	1.0		2.0
18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0		1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0		2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0		3.0
21.	Zinc (as Zn) mg/l max.	5.0	15		15
22.	Selenium (as Sc) mg/l max.	0.05	0.05		0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0		5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	1-1-1-1-1	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0			
27.	Sulphide (as S) mg/l max.	2.0			5.0
28.	Phennolic compounds as (C_6H_5OH) mg/l max.	1.0	5.0		5.0
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml.	10 ⁷	10 ⁷	10 ⁸	10 ⁷
0.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
1	Manganese (as Mn)	2 mg/l	2 mg/l		2 mg/l
2.	Iron (Fe)	3 mg/l	3 mg/l		3 mg/l
3.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	<u> </u>	0.2 mg/l
1.	Nitrate Nitrogen	10 mg/l			20 mg/l



SI. No.	Pollutants	Time Weighed	IENT AIR QUA	Concentrate of Ambient Air				
		Average	Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement			
(1)	(2)	(3)	(4)	(5)	(6)			
1.	Sulphur Dioxide (SO ₂), μg/m ³	Annual * 24 Hours **	50 80	80	-Improved west and Gaeke - Ultraviolet fluorescence			
2.	Nitrogen Dioxide (NO ₂), μg/m ³	Annual * 24 Hours **	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence			
3.	Particulate Matter (size less than 10μm) or PM ₁₀ μg/m ³	Annual * 24 Hours **	100	60	-Gravimetric - TOEM - Beta Attenuation			
4.	Particulate Matter (size less than 2.5μm) or PM _{2.5} μg/m ³	Annual * 24 Hours **	40 60	40 60	-Gravimetric - TOEM - Beta Attenuation			
5.	Ozone (O ₃) μg/m ³	8 Hours ** 1 Hours **	100	100	- UV Photometric - Chemiluminescence - Chemical Method			
6.	Lead (Pb) μg/m ³	Annual * 24 Hours **	0.50	0.50	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter			
7.	Carbon Monoxide (CO) mg/m ³	8 Hours ** 1 Hours **	02	02	- Non Dispersive Infra Red (NDIR)			
8.	Ammonia (NH ₃) μg/m ³	Annual* 24 Hours**	100	100	-Chemiluminescence - Indophenol Blue Method			
9.	Benzene (C ₆ H ₆) μg/m ³	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis			
10.	Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m ³	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis			
11.	Arsenic (As), ng/m ³	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper			
12.	Nickel (Ni),ng/m ³	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper			

Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

²⁴ hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE) & CHIEF WILDLIFE WARDEN, ODISHA, BDA APARTMENT, 5TH FLOOR, PRAKRUTI BHAWAN, NILAKANTHA NAGAR, BHUBANESWAR-12

Ph. No.0674-2564587, FAX No.0674-2565062 (Website:odishawildlife.org, E. mail: odishawildlife@gmail.com)

Memo No. 7.726 /1 WL-SSP-93/2015 Dated, Bhubaneswar, the 31 Aug, 2015

To

The Principal Chief Conservator of Forests, Odisha, Bhubaneswar

Sub:

Approval of Site Specific Wildlife Conservation Plan in respect of Joda West Manganese Mines of TATA Steel Ltd. in Keonjhar Forest Division

It is to inform you that M/s TATA Steel Ltd. has to implement a Site Specific Wildlife Conservation Plan for its Joda West Manganese mines in Keonjhar district in compliance to Specific Condition No.(xvi) stipulated in the Environment Clearance granted by Govt. of India, MoEF vide their letter No. J-11015/86/2004-IA.II(M) dated 13.9.2005.

2. The Site Specific Wildlife Conservation Plan in respect of the above project has been approved by the undersigned with financial forecast of ₹1130.08 lakh (Rupees eleven crore thirty lakh eight thousand) only for the following activities.

a.	For activities to be implemented by the user agency in project area	₹150.60 lakh
b.	For activities to be implemented by DFO, Keonjhar Division in project impact area	₹979.48 lakh
	Grand Total:	₹1130.08 lakh

- 3. Various activities in the lease hold area will be executed by the Project proponent under the guidance of the Divisional Forest Officer, Keonjhar Division. A sum of ₹979.48 lakh only may be deposited in the CAMPA fund meant for the purpose for implementation of various activities within the project impact area by the Forest Deptt. as envisaged in the plan.
- 4. The User Agency may be advised to note the following conditions for future compliance.
 - This Plan may be revisited after 5 years and the User Agency will give undertaking to contribute towards the revised cost of the conservation plan till the project period, if any.

- The project proponent has to prepare and submit the Conservation Plan for the next 10 years of their lease period (balance period for which forest land remains diverted) at least one year before the expiry of the present Conservation Plan and deposit the outlay amount upon its approval. In case of delay, it will be dealt as per law for violations of Forest Conservation Act, 1980 and Environment (Protection) Act, 1986.
- The project proponent has to give an undertaking to bear the differential cost in case of enhancement of wage rate during the time of implementation of this plan.

Encl: 2 copies of approved site specific WL Conservation Plan

> Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha

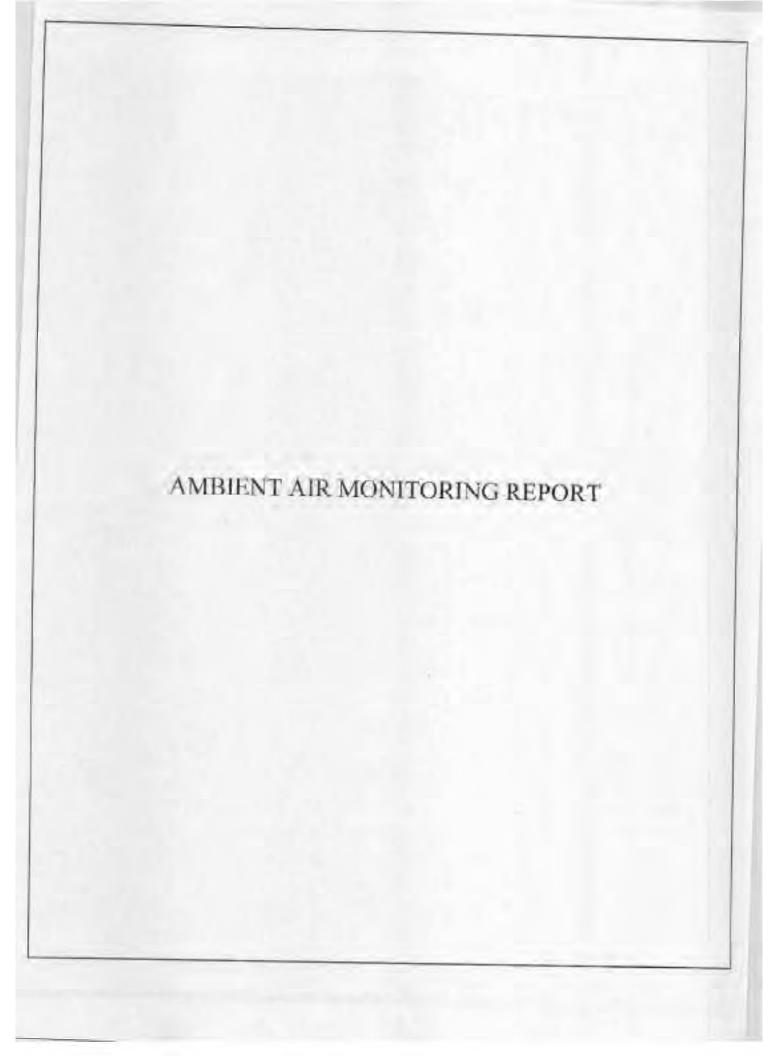
Memo No. 7727 Idate 31-08-2015

Copy forwarded for information and necessary action to -

- 1. Special Secretary to Govt. of Odisha, F&E Deptt., Bhubaneswar
- Regional Chief Conservator of Forests, Rourkela Circle with reference to memo No.5699 dt 16.7.2015 of the DFO, Keonjhar Division
- Divisional Forest Officer, Keonjhar Division with reference to his memo No.5698 dt 16.7.2015 alongwith a copy of the approved site specific wildlife conservation plan

4. The Head, M/s Joda West Manganese Mines (TATA Steel Ltd.), At/PO- Joda, Dist. – Keonjhar alongwith a copy of the approved site specific wildlife conservation plan

Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha



(NO NE. MENOGENHALL)







Econ for Portin

ULR: TC-890024000004819F

Name & Address of Customer :

Tata Stael Ltd (MGM)_loda West

Address of Laboratory :

West Bergal

Tel. - 91 70+1030120 Small udayantab@milmok.com

Building No. P. 48, Udayan Industrial Estima, 3, Pngladenga Road Kolkata 700015

AUPC - Joda Uni - Koonmar, Octoba - 758034 Ireso

TEST REPORT

Maport No. :

Date :

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

MSKPLIED/2023/24/1/15175

19/03/2024

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07/03/2024

07/03/2024 19/03/2024

Purmanent Facility

3000156017/055, Delts - 16/09/2020

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We hereby unitary that the following simple Drawn by us has been analyzed with the following results:

2. Description of terresis	Atministrative Policies
L'Unique Identification of sumple(if may)	Ambient Air
, Date of sampling	NA NA
Place of sampling	04/03/2024
Environmental randetions during sampling & Transport	Near Gangeloude Fit
Sampling Plan & Meiting (med	1) Temperature 10-21 deg C 2) Barometric Pressure, 707 mm of Hg 3) Rain fa No.8 Com Chair Manda cad (5.5167(F.11, 12) p.(JSEDA)
Mentification of the personnel purceasing sampling by MSK. Field Equipments Used	LAJIN NAYAR
	MSK/BEL/FIELD/RDS-4

Report No.: USKPL/ED/0028-04/(10175)

Sample No.: MSIONE/ED/2023-24/03/SWUSCF

RESULT

SI No.	Perameter	UOM	The state of the s		
-1	Arsenic as (As)	DOM	Method	Limit	Result
E		Emgn	LISEPA-IC 9.4. June	5 (Annual)	
1	Benzene	Erritma araitm	IS 5482 (Part 19)	5 (Attrium)	BDL(DL 1.0)
1	Barraco(a)Pyrana	ngm2	15 5182 (Part 12)		30L(BC42)
-	Leid (av Pb)	Kimimb craim	USSPAJO 3.4, oyon	1 (Arinual)	BDL(DLDS)
5	Mangamene as Mri	Ewling-orbitm	USERA10 3.4. June	1 (24 Hours)	0.02
8	Nichel na (VI	nale3	USEPA-IO 14 June	Not Specified	0.15
pinion:	Limb his per CPC	B Halffcollers New Corn	Tash Howellows State or Will	20 (Annuit)	BDL(DUS,d)

Statement of Conjumity NA

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Dr. Duesmann (Security

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Page 1 of 1

Address of Branch :

F D. Barbil Dt (Comher Orases 7581285

Name & Address of Customer :

AirPri, - Joda, Diet. - Kabrijtur, Comiu - 758034 India Pin

Pata Stell LM.(MGM)_Joda West





TEST REPORT

Report No.:

MBKGL/ED/2023-24/008296

Date

14/10/2024

Sample No. :

MSKGL/ED/2023-24/03/00140

Reference No. & Date :

9009168017/056, Date - 15/00/2020

We remote county that the following sample Drawn by us has been assistant with the following county

AIR
Arabient Air
Jodan Weni kom & Mr. Nichen (JWIMM)
04/03/2004
Blain/Garandguda (Nr.
Light Flair reli 704

Report No.: M8KGL/ED/2023-24/005236

Sample No.: MSKGL/ED/2020-24/03/00140

RESULT

Si No.	Porameter	UOM	Method		
1	Ammonia (MHS)			Limit	Result
2	Carbon Managine (CO)	micro provid	18 5167 (Fast 25)	400 74 HR	12.8
1	-	Cardian	15: 5182 (Part 10) (0)	2 http://	
7	Allrogen Dississi (NCtr)	trear a granting	18: 5:82 Pec 6] (O)	90.24 MR.	0.40
	Ožuna (O3)	miou gruno	Sarba (mri 9)	7374	21.6
5	Particulate Matter (<10um)	micro gm/m3	(8 3 M2 (Pup III) (C)	18U1 HR.	BDL(DL:20/I
B	Particulate Millior (<7,5km)	micro myyes		100 24 HR	173
7	Sulphui Dexade (902)		SARS(FROME ID)	60.24 MR	86
	The second feeting)	mittro garrino	15: 5182 (Pad 2) (D)	80.24 HR.	7.6

FRD.

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

hand I Compagn (No Face), 740, A.J. E. Ross, Ross, Andrew 700016, West Bengal India The Hit Street China Committee C

Page Loft

Address of Laboratory .

Building No. F.-40, Uthyan industrial Estate 3 Pagiadanga Rawi, Kalkat - 7000 15

West Bengal

Tel: +51 7044038120

Email: udayantais@mtrasil.com







DOUBL MSKIGENTINGT

TENTINE - MEPETINEN

Sum for Pertal

DLR: TC-89602400000048101

Name & Address of Customer:

Tota Steel Ltd.(MGM)_Joide West

ALPD - Joda Dist - Keonikar Odeku - 768034 Invis

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Disciplins:

MSKFL/ED/2023-24/51517F

18/05/2024

MSKNE/ED/2023-24/03/90/NBQJ

07/03/2024

07/03/2024 - 16/03/2024

Darmaconi Fassey

3000156017/056; Oute = 16/04/2023

Chumian

We havely certify that the following sample Drawn by us has been analyzed with the rollowing constitu-

1. Group 2. Description of sample	Atmosphisis Pollusion
3. Unique Identification of semple(trany)	Amplent Air
L Date of sampong	NA.
5. Plaga of sampling	04/03/2024
	Nest Radway Steing
5. Environmental conditions during sampling & Treosport	1) Temperature 15-2 (80 C 2) Superature Production 100
Eampling Flan & Malnot used	
Identification of the personnel performing sampling by MSK	S:\$180/P-11.(2) & DSEPA
Field Equipments Used	LALIN NAYAK
The state of the s	MSI/BBL/FIELD/RDS-II

Report No. : MSKI'L/ED/2025-24/0151/F

Sample No.: MSKNB/FD/2023-24/03/SCNS9.1

RESULT

SINO	Paramider	LICHA	Method	1000	1
1	Arsenic as (As)		-	Limit	Result
2	Bantiene	ng/m3	HSEPA 10 3.4, June	o (Annual)	BDL(DL V.D)
3	Bonzo(a)Pyrene	Emiras analm	15:5182 (Plant 11)	D (Annual)	BOL(DL 4.2)
4	The state of the s	2g/m3	18 5182 (Part 12)	1 (Annual)	NOL(DL:0.5)
6	Lead (as Pb)	Micro gm/m5	USEPA-IO 2-4 June	1 (24 Hours)	EDLIDE G.DH
- 1	Mangenese as Mn	Emeng orplin	USEPAID 24 June	Not Specified	
ginian	Nickel as 16	ng/m2	USEPARO 3.4, June 1, 16th Holomopes Junit, for Ame	20 /Annun's	80.08 (0.5.10).109

Limit us pie DPCB antiferation. New Deltn, 15th Newworks 2008, for embern sit posity.

Statement of Conformity

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Eintignation

Dr. Hawdenn Barwy Titochenial IV Charge.

Mynnagel

Authorised Signature

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Front organization with the same or the

Page 1 MI

Address of Branch :

P.O. Barril Di Komilhar Orese 758 035





Some for Person

Name & Address of Gustomer;

Time Short LhL/MSMI_Jode West

AIPn - Jodn Clie. - Knonlein Ochaha - 756034 India Par

TEST REPORT

Report No.:

Date:

Sample No.: Reference No. & Date : MSKGL/ED/2023-24/005235

V4IICV2024

M5K0UE0/2023-74/03/00/38

5000158017/056, Dam - 15/09/20/3

We hopsby randly that this following seriods Drawn by us he

Description of sumple	AIR
3. Unique Identification of sample(f any)	Argibiani Au
 Date of sampling 	Anda West Iron & Mr. Mirnes (JWIMM)
5 Party of sumpring	New Richard States
Control properties communities of the control	Lient Ross (at
Countries Little delloc new	TOP

Report No.: MSKGL/ED/2023-24/noszan

Sample No.: MSKCL/ED/2023-24/03/00136

RESULT

SINO	Paristense	UOM	44		-
100	Ammonio (MHO)		Method	Limit	Result
2	Carbon Menovida (CO)	mara gm/m3	18-5182 (Part 25)	400 24 HF2	111.8
3		megra/3	(5. 5182 (Part 10) (O)	2 MHR	0.61
4	Mittagen Diaxiou (ND2)	mino smaro.	15: 5192 (Part 6) (Q)	80 24 HR	1
7	Oznas (03)	Enternal crosses	15, 3,182 (Trutt 9)	BUT HR.	24,3
100	Purbludate Watter (<<0um)	migra grales3	(S. 5182 (Part 23) (U)		BDL(DL 20.0
8	Particulate Mother (52 Speri)	micro grovest	IS SHEP (PT Z4)2019 (O)	100.24 HR.	223
1	Sulphia Dimode (SO2)	micro garanta	(E. Chan in	60 24 HR	102
		T make despited	(\$:5382 (Part 2), (O)	50 24 HR	7.0

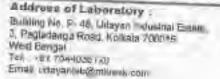
Report Verified By

For Mitra S. K. Private Limited

Sam **Authorised Signatory**

DOC THE IMPOURDMENTERTY





Name & Address of Customer:

ANPo. - Joda, Dist - Reportion Orlings -758034 India

Tata Steel Ltd.(MGM)_lode Viesi





ULR: TC-695024000004817F

Scan for Fortsi

TEST REPORT

Report No. :

Date: Sample No. :

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/M1517S

19/03/2024

MSKMB/ED/2023-24/03/C KMBC

07/03/2024

07/03/2024 - 16/03/2024

Germanent Facility

3000156017/066, Date : 16/09/2013

Chemical

Are namely certify that the following sample Drawn by in this bean stratured with the following resource

1. Group	Atrospheria Polisium
2. Description of sempre	Ambhart Air
Unique identification of semple(if any) Date of sempling	NA NA
5. Place of sameling	04/03/2024
Environmental conditions during sampling & Transport	Near H-Quarry Rest Shaller 1) Temperature: (10-2), deg C 2) Berometric Pressure: 707 rom of Hg 3) Rain felt No & Colo Chair Mainteines
Sampling Plan & Method used	No.5. Cold Chain Meinteines 15:5182(P-11,13) & USEFA
identification of the personnel performing sampling by MSR. Field Equipments Used	LALIN NAYAN
- Indicate page	MSMBBLFIELDROS1

Report No.: MSKPL/ED/2003-24/M15 /75

Sample No.: MSKNB/ED/2023-24/03/C/888C

RESULT

SI No.	Parameter	UOM	Method	Vante	1
1	Arsenic as (As)	rig/m3		Limit	Result
2	Bertaena	Charles and the second	USEPA-IO 3.4, June	0 (Annual)	BDL(DL:1:0)
1	Benzo(a)Pyrody	micro amino	IS 5182 (Part 11)	5 (Azemasi)	BDL/DL 4:21
4	Lond (es Pb)	10/102	(E 5182 (Part 10)	1 (Annua)	BDL(DL:0:5)
5	Manganese as No	micro (in/m3.	(BEDA-NO 5.4, June	7 (24 (100)3)	BOLIDI:0.01
6		midre gm/m3	HSEPAIDS & June	Not Specified	1
pinion :	Nidel at Ni	S notification. New Cast	USEPAID 3 4, June	20 (Armusi)	9.12 BDL/D(-5.0)

Statement of Conformity MA

END -

ROWWIE BY

Department

Barn Dr. Devotor meres

Transmitted Art Charge

Authorized Signation/

für Devention fü

Designation

Trephysical In Charge

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The Test Report shall not be reproduced excess to 6.6 minute for purposes of Mars S.A. Private Limited

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Charges Control (Art Flact), FAR, A 4 () Report Report Control (Charles) Washington (Charles)

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Page 1-off

Address of Branch ;

P.D. Bartie DI Koonman Onson 758 035





Sounder Fortal

Name & Address of Customer:

Tata Steel LM, (MGM) Juda West

AtPo. - Joda, Dist. - Kebsjier, Odskin - 750034. Inde Pin

TEST REPORT

Report No.:

Date

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/005223

14/03/2024

MEKGLA-DIVUZT-21/00/08/04

2001156/11/056, Date - 15/09/2022

We hereby carries that the following sample Ermen by up has be

1, Brayp	AIR
Description of annuits	100.7
Limitate Identification of Sample of any)	Asptient Air
Date of sampling	Joda West Irran & Mr. Altmen (JWIMM)
, Place of sampling	84/03/2024
Control maries Present and August 2	Final H. Classry Street Disches
Service all a contribute during simpling a Transport	Light Bais out
Sarpling Plan & Method scien	NAME OF THE PARTY

Report No.: MSKGL/ED/2023-24/105223

Sample No.: A/SKGUED/2023-24/03/00138

RESULT

SP No.	Parameter	Liche			
1	Tominarias (NE13)	-	Multword	Limit	Result
2	Carteri Monorce (CO)	micro gnents	7E Shitz (Pant 25)	400 24 HR	17.8
3	Nittropin Dioxeris (NG2)	itsp/m/1	(S) 5182 (Part 10) (O)	2 ann.	0,39
4	Other (03)	HINAR BURET	AS: 5,182 (Part B) (CI)	80.24 HR.	25.5
5		micro-grano	IS \$102 (Pwt.9)	100 1748	BDL(DL:30:0
E	Particulate Matter (<10um)	intern grains	#\$ 2163 (Peri 23), (C)	10074 HR	
2	Farikulate Mades (<2.5cm)	Interest gratines	16 6 tap (17 (20) 20 (9) (0)	60 24 HR.	190
	Sulpher Divide (SCO)	misso gravnici	IS 51/12 (Pnr; 2) (O)	BD 24 MR.	84

Report Verified By

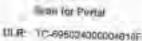
For Mitra 5, K. Private Limited

Authorised Signatory

CONTRACT MESINGERAPHIATE







TEST REPORT Name & Address of Customer:

Tata Steet Ltd (MOM)_Journ West

Address of Laboratory :

West Brings Tel: vet 70mm036120 Email unayenbib@mtrask.com

Building No. P. #5, Usayan Industrial Estate. 3. Paplacianga Road Kolicata 765016

Al/Po - Juda, Dist. - Keonitur Culana - 160034 molin

Report No.: Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/(023-24/T1517M

19/03/2004

MENNE/EDIZOTI-TRADIZZERALI

07/03/2024

07/03/2024 - 16/03/2024

Damenahl Foreigy

3000166017/065, Date - 15/09/2023

Chemical

We hereby carely that the following sample Drawn by as hos been marked with the following results.

1. Groups	
9. Description of serrory	Attrostrone Polymon
Unique identification of aempted any	Archient Air
1. Date of sampling	NA .
5. Place of sampling	04/03/2024
Environmental conditions during asympting & freesport	Near D-Duarry Scients 1) Temperature 16-27 deg C 2) Berometric Préseure: 707 mm of Hg 3) Rain fail No A Cora Chair Marganese
Sampling Plan & Method used	No A Core Chair Married at 1 Service and Pressure: 707 mm of Hg 3) Rain (a)
Elect Englement (I personnel personning sampling by MSK	15:5187(P-11, 12) & USEPA
. Field Equipments Used	LALIN NAYAR
	MSK/BBLF/ELDRDS-8

Report No.: MSKITUEDGD20-24/71517M

Sample No.: MSKNS/ED/2023-24/03/32SRAH

RESULT

Chemical					
SING	Parameter	UOM	Muttod	20.0	1
1	Arsenic as (Ad)	Cerkon .		Limit	Result
2	Bergene		LISEPAND 3.4, June	6 (Anguel)	BDL(DL:+Li)
3	Berizo(a)Pyrens	Enhmig ötsüm	IS 5182 (Part 11)	t (Annua)	BOL(DLAZI
A		Emilian	15 5132 (Fart 12)	1 (Amust)	1000
	Lead (as Pb)	mitrin provincia	USEPA 10 3.4; vone	Y (Z4 Ploum)	BDL(DL 0.5)
.6	Mangaliese as Min	mibia gm/m3	USEPAID 3.4: June		BDL(DL:0.01)
0	Nickel as Ni	ng/m3	USEPA-IOS4 June	Not Specified	0,08
pinios i	Limit as per CPC	9 notification, twee Cents	1881 Hovernber 2005 nur enn	20 (Airmail)	BDL(DL:5.0)

Limit as per CPC9 notification, www. Carts. 1284 Wowcomber 2009, for employit or qualific

Bialement of Conformity NA

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Developed by

Ut. DWWTOW Sun

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The content of an explanation for the real majors. See Equal & Liquid Waters and the Indiana to The Secret 2002 perform a Liquid Content of the secret for t Street Green (30 Floor) 140, A.J.C. (100 Floor) No. of 170 (011 Floor) 140 Floor 140 Floor) 140 Floor 140

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Address of Branch :

P.O. Both Di Kessylar Onssa 729 035





head for Percol.

Name & Address of Customer:

Train Steel Ctd.(MGM) Julia West

AtPu. John Sist. Keennar, Odinin - 158034 Imile Pin

TEST REPORT

Reference No. & Date :

Ruport No. :

Sample No.:

Date :

HSKCL/ED/2023-24/005234

4/00/2004

MSKGLIHD/2023-24/03/00/137

3000156017/056, Date + 11/08/2023

We swelly certify that the following sample Dawn by us has been enalyzed with the following his life:

1. Group	AR
2. Description of Lampin	Anthieré Acc
3. Unique identification of sample(if any).	Joda West Iron & Mr. Misses (7/195M)
4. Date of sampling	D4/03/2024
5. Place of sampling	None D-Outery Serrous
t Emirane tal consistent during campling & Transport	Light Rain (M)
7. Sampling Plan II Manusal wood	Na

Report No.: MSKGUE0/2023-24/006234

Sample No.: MSKGU/ED/2023-24/09/00137

RESULT

St.No.	Paratonière	DOM:	Method	Limit	Rosult
0. 7	Ammonia (NH3)	miqui grama	(8.5)(62 (Part 25)	400 24 HR	
2	Carbon Monuside (CO)	mg/m3	15: 31(2 (Part 10), (O)	2 B/R	10.4
13	Alfrogan Dissello (MO2)	mittre amind	18: 5162 (Par. 6) (U)	90 24 HR	0.55
4	Ozone (CB)	Micro gratica	ME 5182 (Part 8)	100 1 1/8	-
5	Participate Matter (<10 im)	mero grossa	/B: 5167 (Per(21) (D)	190724 MR	BOLDC2070
4	Participan Matter (<2.5pm)	mero-genter i	S 5 (82 (77-24),2015 (0)	TO ZV HR.	160
7	Sulphur Droude (SO2)	micse geveral	(S: 5489 (Pail 2) (O)	80 24 HR	91 88

rain

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Address of Laboratory:

Building No. P. 48. Udayan Industrial Estate, 3, Pagladenge Rood Hollete 700010

ANTIO Jode Diel Kooniner, Odlette - 709034 Fichie

Www/Bengal Tol . +91 7044036120

Email uninyaniab@mitrank.com

Tata Steel Lid (MGM)_Joda West







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ULR: TC-8950240000004815F

Disc No MSKIGEWHIRE

TEST ING WINSFELLING

TEST REPORT Name & Address of Gustomer.

Report No :

MSKPI (ED/2023-24/P1517M

Date: 19/03/2024

Sample No. : MSKNE/ED/2023-24/03/0V/C/BI

Date of receipt of sample: 07/03/2024

Date(s) of performance:

Location of performance of

Reference No. & Date

Discipline:

(17/03/2024 - 16/03/702A Pumulneof Facility

3000158017/055 Date 18/06/0023

Chamical

We hereby certify that the Informing sample Drawn by us has been analyzed with the following resolution

1. Group	Attractoratic Publican
Z. Description of sample	Ambiere Ar
2. Unique identification of sample(if any)	NA NA
L Data of sampling	D4/C3/2024
Place of sampling	Neer D-Quarry Shriling Yard
i. Environmental conditions during sampling & Transport	1) Temperature, 10-27 day C 2) Barometric Pressure: 707 mm of Hg 3) Rain fal No 5 Cold Chair Maintainna
Sampling Plan & Netflied used	15:5182(P-11,12) & USEPA
Identification of the personner performing sampling by MSK	LALIN NAYAK
Praid Equipments Used	M5IUBBL/FIELDIRBS-2

Report No.: MSRPL/ED/2023/24/P1517M

Sample No.: M5KNB/ED/2023-24/03/2V/C881

RESULT

Chemical						
5) No.	Parameter	NOM	Method	Limit	Result	
1	Arsenic as (As)	EmAgo	USEPAJO 3.4, June	6 (Annual)	BOL(DL 1 ft)	
2	Benzons	micro grn/m3	15 5182 (Part 11)	d (Annual)	BOL(DUA.2)	
3	Benzo(s)Pyrene	hg/m5	18 5162 (Part 13)	T (Amnual)	BOUULDE	
- 4	Lead (In Ph.)	estero grafinā	USEPA10 3.4. June	1'(24 rigurs)	BOLIDI (001)	
5	Minganese as Min	micro gm/re3	USEPÁ10 3 # Juno	flet Specified	0.17	
6	Mickel as Ni	rig/m/3	DSEPARO 14 June	20 (Armual)	BDL(DL-5.0)	

Dainlon:

Limit on ber COCR collegition, New Dami, 18th November 2009, for contagn at quanty

Statement of Contornity

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Dr. Descript Bayeria Tamperool in Charge

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The recovery part of sempones in plantages (from a prevention one posts) Fund. Water) stell performed for 15 days train the delication of the Total Report. Personal syndyces should be recovered start.

The reserved part of samples by steer at applying the service of t

Streets Device (Intil Phins) FAR A.J.C. Steel River, Donnie - Turbris, Versi III and Intil 197 29 407400 (III) Phins III 27950007 Phins Intil 27950008 First in all reviews and involves were alrest as

Page 1 of 1

Address of Branch:

P.O. Barbi Di Keondar Chiesa 786 035





Scan for Parpi

Name & Address of Customer :

Tota Shiel Ltd. (MGW), Jode West

MiPu. - Jook, Dist. - Keonjhir, Odebs - 758054, India Per

TEST REPORT

Report No. :

Date:

Sample No. :

Reference No. & Date :

MBKGL/ED/2023-24/006199

14/13/2024

MSKGL/ED/2020-24/00/00 Lik

3000156017/056 Date - 15/09/2020

We namely careful that the following nample Drawn by us has been analyzed with the following resolu-

1. Group	AIR	
/ Description of sample	Ambient Air	
Unique Hentification of sample; if any	Jose West von & Mn. Mines (JWMM)	_
Date of semiling	04/03/2024	
Place of sampling	Near D. Ocare, Serting Varia	
Emilionmental conditions during sampling & Imaspuri	Light Barries	
Smoking Plan & Method uses	INA -	

Report No.: MSKGUET/2023-94/00/198

Sample No.: MSKGL/ED/2023-24/93/00/36

RESULT

St.No.	Porpmoor:	DOW	Watnog	Limit	Restalf
9	Ammonia (NH3)	Intero (gridina)	IB 5182 (Part P5)	400 24 HR.	11.1
3	Carton Monuside (CO)	mgred	19 510Z (Part 10) (D)	1 848.	0.58
1	Mitregran Diloxide (NO2)	risio griima	(St 5182 [Part 6]_(D)	8024 HR.	22.7
4	Ozone (O3)	Blinto (antint2	is star (Pan b)	180 1 HW.	BDE(DL:20.0
· H	Particulate Matter (<:10um)	micra gm/m3	(82: 5402 (Part 23) (C))	OUD 24 HR	187
0	Pleterion Matter (<2.5um)	mero graval	(5.5152 (**7-24),2015_(0)	00 24 HK.	91
1	Sulptrur Dioxidia (SO2)	inicra grated	IS 51(0 (Pan 2) (0)	60 24 HFL	6.5

- DND --

Report Verified By



For Mitra 5, K. Private Limited

Authorised Signatory

Head Office: Wall Co.

event Controller Flori (AR, A.J.C. Chair Petel, Koture (1900) E. Wast Berest Vollet (N. 20 artis/000) auction22 Apr. 31 (2) Debtyon Smill (Modernman (an) Watcher (1904) Con.

Page I nit

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate. 5. Pagladanga Franci, Kolkala 700016 What Elengal Tel 1917044036120 Email: ud war as the wirank com





Doc W., WSKCENNERS

Scan for Portal

ULR: TC-895024000004614F

Name & Address of Customer:

Tata Steel Ltd.(MGM) Joda West

Aldre Hode Dis. - Neorginal, Octable - 100034 (COM

TEST REPORT

Report No.:

Date

Sample No. 7

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/11/11/#

HW03/2024

MSKNB/ED/2023-24/03/2A4679

07/03/2024

07/03/2024 | 15/03/2024

Parmanged Finality

3000156017/056, Date - 16/09/2021

Chemical

We hareby partify that the following summer Drawn by un has been analyzed with the following resource

1. Group	Atmorphise Pollulion
Z. Description of sample	Ambient As
Unique Identification of sample(if any)	NA
4. Date of kampling	04/03/2024
I. Place of amorphing	Near Time Office
6. Environmental conditions thiring sampling & Transport	1) Temperature 118-27 deg C. 2) Earlowetric Presoure: 707 mm of Hg 3) Rain list Ho & Calli Chein Maintained
7. Sampling Plan & Method used	IS:5162/P-11,12 & USEP#
a menuncation of the personnel performing sampling by MSK.	LALIN NAYAK
9. Fleid Equipments Used	WSIVBRLFIELDIRDS-2

Report No.: MSKPL/ED/2023-2//115114

Sample No.: MSKNE/ED/2023-24/03/2A4879

RESULT

Chemical					
Si Na.	Paramidae	UOM	Method	Limit	Result
1	Arsenic as (As)	mplm3	HSEPAJO 1 4, June	# (Armuel)	BDL(CL 1.6)
2	Benzene	micro gm/m2	IS 5182 (Part 11)	5 (Annual)	BDL(DL +.2)
3	Bonzo(a)Pyrene	ng/m3	US 6182 (Part 12)	1 (Ansual)	0DL(DL:0.5)
-6-	Lead (na Pis I	minns grown?	USEPA-10 3.4. June	1 (24 Fears)	0.02
4	Manganese as Min	stiora gm/m3	USEPAJO 2 4 June	(Ant Specified	0.47
- A	Nickel as Ni	ng/m3	USEPANO 3,4, June	20 (Arman)	BOL(GL:50)

Comine

Unit is per CPCS netCoston, New Dath. 18th Proceeding 2005; for present or quality

Statement of Conformity

END

Reviewed by

Slagner Or. Devotam Basoneo

Designation Teodyscel in Charge Authorisis Steri

Street, or

Name

Dr. Clevertoni Harris

Terretornal to Chica-

The reside office only to the investigations:

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Head Office:

Chesch Carlos (Str Fisch), Yes, A.J.C. Sone Areal Risease. Titatol. West Swigel (ret.), Tal. 21-23 of 4-32(20)/20/min/307 Ray. 91-33 (2860)002 Street: Tital (1981)00 min West All (1981) (1981) (1981)

Page 1 of 1

Address of Branch:

P.O. Barel IX Nacryher Onse: 758 00s





State for Prints

Name & Address of Customer:

Tinto Steri Ltd.(MGM) Joda Willia

ANDo. - John Old. - Kerryter, Odisha - 758004 India Pin

TEST REPORT

Report No .:

Date:

Sample No :

Reference No. & Date :

MSKGL/ED/2023-24/005227

14/113720224

MSKGL/ED/2020-WMXW0011 st

9000769017/00H), Danc - 15/0W2013

We fromthy couldy man the tolerancy many in Chairm by us has been cromised with the following control

1 Group	AR
7 Description of sample	- CARL
Unique Identification of sample(if any)	Ambienii Air
4. Date of sampling	Joda West Iron & Ms. Mmm (JWMM)
5, Place of sampling	04/09/2004
Environmenta spodianes during asmalina & transport	Negr Time Office
Sampling Flan & Wethor used	Light Rain (all
C-FE SURVEY FEBRUAR MECSAGE DOM	TWA

Report No.: MSKGUFD/2023-24005227

Sample No.: MSKGL/ED/2023-24/(3/00136)

RESULT

W No.	Exameter	HOM	Westland		-
-1	Ammonia (NHCI)	Eurlan maiori		Limit	Result
1	Cation Minerado (CII)		\$ 5182 (Part 25)	400 24 HR.	14,4
3	Mitropen Diologic (NOV)	Eniger	(\$ 51eG (Part 10) (0)	2 (144)	0.57
4		monty-mail	15. 9102 (Pan E) (O)	80 24 HR	19.0
-5	Cizone (Clb)	(inco-ge/o)	15 5 182 (Part 9)	FH 1 001	The State of the S
2	Particulore Matter (<(Dum)	micro grand	15 5162 (Phr 25) (U)	100.74 HR	BDL(DL:20.9
2	Parliment Memo (<2.5cm)	moreamone	IS STREET ENGINEER TOY		500
7	Solshur Dioxide (SD2)	micro grivna	IS:5182 (Fast 2), (O)	60 24 HR	90
			and the state of 10	80 29 HR	73

END -

Report Verified By



For Mitra S. K. Private Limited

Authorised Signatory

Dischie: MERUDENHUNG









for Purtal ULR: TC-89602400000482

Name & Address of Customer:

Tata Speel Ltd (MGM) Joda Warii

Address of Laboratory

West Bencal TOT ... 191 TM4U3612U Email indayinlangmicask.com

Bisking No. P. 48, Udayan Indiatrici Essay. 3, Pogladenga Road, Koksta 700015

AVPc, - Joda Dist. - Keoning. Ossaha - 768034 India-

TEST REPORT

Report No. :

Date

Sample No. 1

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSK9L/ED/2023-24/M1517B

19/03/2024

MSKNB EDUNCT 14/61/VISBD

07/03/2024

07/03/2024 - 18/03/2024

Permanent Feeling

3000156017/056, Clajo = 10/09/2023

Chamical

We haveby centry that the inflowing semple Drawn by us has been analyzed with the hillowing mesus.

1. Group 2. Description of sample	Atripichanic Pellution
2. Unique (dontification of sample(II any)	Amblent Air
A. Date of sampling	NA
5. Place of sampling	05/03/2024
Environmental conditions during sampling & Transport	(Near Gengerande Pil
Sampling Plan & Method med	7) Temperature 16-29 (e.g.C.2) Barometric Pressure: 707 mm of Hg 3) Rein (a. Ne A Cold, Chair Maintaine)
I field Equipments Used	LALIN NAVAY
	MSK/BBLIFIEI DIRDS-4

Report No.: NUMPLED/2023-24/M 1917B

Sample No.: MSKNB/ED/2023-24/03/Y05892

RESULT

St Nn.	Parameter	UOM	Method		1
7	Arzenio as (As)	anning.		Limit	Result
7.	Benzene	ngxm3	USEPA-IO 9.4, June	6 (Annual)	BEX.(DL:1.0)
3	Benzo(a)Pyreno	Enling craim	G 5182 (Part 11)	5 (Attribut)	The second second
4		- Fig/im3	15 5132 (Part 12)	1 (Admust)	E0L(Dt. 4.2)
6	Lend (as Pb.)	Emirro proint	LIBERA-10 S.A. June	Y ((of Hours)	BDL(DL:0.5)
21	Manganese as Mil	Inicia gm/m3	USEPA-IOS & June		80L(DL;0,01)
5	Noket as Ni	no/m3	USEPA1D 3.4. June	Not Specified	BOL(DE:0.01)
pinfori :	Limit as per CPC		100 However 2002 for Amo	20 (A(must)	BDL(DES 0)

Limit as per CPCB polification. Firm China. I this Procession 2009, for rendsoft arriginally,

Statement of Conformity

END-

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1 bound **Phareton** Dr. Description description

Desgnation

Tricatorian in Charge

Authorized September

MANUEL

Witteress in Charge

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for the Control of the Control Warren Custo (5th Fisse, Till, A.J.C., Book Hous, History, January, West Hergel (188-74) - 25-40(48000); Zhistory Yes, 91 52 7255400 Epail trinigenmuscom Versolat WWW mirrol, corp

Page | uH

Address of Branch :

P D Bartie DI Krion Die Orissa 750 005





Scan for Persal.

Name & Address of Customer:

Time Short Llu (MGM) Jodn Want

AAPa, - Joda, Dist. - Kworthar, Osiaka - 700034 India Pin

TEST REPORT

Report No. 1

Outo :

Sample No. :

Reference No. & Date :

VISKGUED/2023-24/005224

4/03/2024

VSNGLED/2023-24/03/00/46

10001580176950 Disks 15/08/2023

We havely early the on Security swinting the Drawn by the has been

2. Description of excepts	AIR
3. Unique los citication of sampla(if soy)	Ambient Air
L Date of sempling	Joda West from & Mr. Minna (JWMM)
. Place of excipting	100/03/2024
Service amount committee during automatico & Transport	Nate Conjugado Fit
Sampling Plan & Method used	Court
The second second	NA:

Report No.: MSKGI/E0/2023-24/005024

Sample No. : MSKGL/ED/2023-24/03/00146

RESULT

SI No.	Paronesar	Uou	-	1	
7	Alminnia (AHS)	1000	-fnod	Limit	Result
2	Carbon Monoride (CO)	(vice) grains	(6.5182 (Part 25)	400 54 HR.	12.0
2	Nilhegen Dionge (NO2)	TEP44D	18:5182 (Fart 10) (Co	2 8HR	0.57
-1-	Oxone (OB)	Water greence	(O) (Bne) (Ste &	BD 24 HR.	
2	Perticulate Malber (<10urs)	Were grains	15-5162 (Part II)	180 1 244.	800000000
6	Particular Matter (< 5um)	Intero gmima	(6-5/19/Fw/21) (0)	100 24 HR	BOL(DI 20.0
7	Sulphur Dioxida (SO2)	Micto gm/usi	It was it to be party for	50 24 HF.	180
- 34	Suprim Digues (SO2)	Dolog gum	IS: 5182 (Part 2) (O)	20 24 MR	96

END .

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

STATE CONTROL (No hours, Fig. 8.1.C. Good Want, Kell Star (100) St. Wast Revised Sciences, 25-05 (0.000) (2000) (2000) Fig. 25-05 (2000) (2000 Head Office:

Page Toff

DOCKE MEKKERNIGHT









ULR: TC-88502400000462

Name & Address of Customer:

Total Steel List (MGW)_Jogal West

Address of Laboratory :

West Benimi Tel : 491 7044038120 Email: edayaniab@mitrask.com

Building No. 2 46, Aldeyan Industrial Estate 3. Pagladange Road, Kolkata 200016

AliPn - Joda Dail Kaonjaar Odisha 750034 milita

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(a) of performance: Location of performance of

Reference No. & Date |

Discipline:

MSKPL/ED/2023-24/81517N

19/03/2024

MSKNB/SDOD21-24/05/TFNBDT

07/03/2004

07/03/2024 - 15/03/2024

Permanant Facusty

3000 1580 17/056, Diale - 15/09/2013

Chemical

We hereby carely that the following sample Drawn by its has have analyzed with the laterway results.

Group		
2. Description or sample	Almosph-Jio Paticocr	
Unique Identification of assepticulary)	Anthient Arr	
Date of sampling	NA.	
Place of sampling	05/03/2004	
Environmental conditions during sampling & Transport Sampling Pten & Meetros used	Near Radiney Sigling. 1) Yearpp rature 16-29 deg U St Bavor etnu Pressure: 707 mm of Hig 3) Rain No. 6. Cold Ctoin Mandaned.	
	No & Cold Chain Mannagard	
Identification of the personnel performing expelled to store	1/6/5102(P-17,72) # LISEPA	
Field Equipments Lised	LALM NAYAK	
	MSK/BBL/FISLD/RDS-3	

Report No.: MSKPLED/2020-24/81517N

Sample No.: MSKNB/ED/2023-24/03/TFNBDY

RESULT

Chemical					
SI NO.	Parameter	UOM	Method	112	-
1	Arsenic sis (As)	nama.		Limit	Result
2	Henzene	micro om/m2	USEPA (Ö,3 A, June	fi (Antiral)	80L(0L-1.0)
A	Serizo(a)Pyrene	nganis	IG 8 (52 (Part (1)	5 (Annua)	BDL(DL:4.2)
4	Lead (as Pb.)		(S 5162 (Part (2)	1 (Annisal)	BDL/DL a.s.
	Manganese as Mo	hslero gm/m2	SEPARO II A, June	1 (24 Hours)	0.05
6		hite gnins	USEPAIO L4 Jame	(lot Specified	0.36
pinion:	Nickel as NI	1H1/m23	USEPA IO 3.4, June 1. Test neventor 1999, for And	700 13 11 11	40.4

Limit as per CPCB settlement. New Dethi, test revenion (XXI), NV Ambient all quality

Sistement of Conforming

END -

Designation of the

Desgrape

Dann Liv. Devotion Burney

Treatment in Draw

Aldressed Significa

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The Third Report Stady and the improvement of the control of the c

The financial part of exceptions from the control of the control o Street Course (Str. Rose) / 43. A. J. Hose Rose, Streets. / Harm. What the got streets. In 23.2900000 Feb. In 12.27900000 Feb. 11.22.27900000 Feb. 11.22.279000000 Feb. 11.22.279000000

Page Lott

Address of Branch :

P.O. Sartii Di Keoninar Orissa (58) 936





Scare for Phone

Name & Address of Customer:

Tata Sher Litt (MGM) John West

At Pc. - Jose, Dist - Koorjeer, Odlete - 755034 Inda Pn

TEST REPORT

Report No.:

Date:

Sample No. 7

Reference No. & Date :

W5KGL/EDI7023-24/005237

14/03/2024

MSKGL/ED/2023-24/0/U/01/6

3000156017/056, Date - 100000003

We namely couldy that the following energie Dissen by us has down employed with the following results

1, Group 2. Description of specific	AR
3. Unions identification of sample(If any)	Ambieni Air
4. Date of sampling	Joda West (no & Afr. Mines (JV/9644)
5. Filitios of sampling	06703/2024
6. Environmental community was	Ngar Rulluny Science
Early communication remotes authing semailing & Transport Early and Parish Replaced read	Charly
A Second State to Wellington (1994)	194

Report No.: MRKGL/ED/2023-24/005287

Sample No.: MSKGL/ED/2023-04/03/00145

RESULT

Aminoosi (NH3)	IJOM	Mestiod		
Commence Contract	Charles and the first trace		Limit	Result
Patter Henrick Inn	Michig Bringing	55 5 (82 (Part 25)	400 24 162	11.5
The second secon	ring/mili	15 5182 (Part 11) (D)		
Wittinger Disorde (ND2)	Herry grows			0.37
Cizone (O3)	micro izmimi		80 24 HR.	266
Particulate Matter (<100m)			140.1 HR:	BDL(B):-20/0
	-		100 25 HR.	220
	The second second second	10 512 (FT-24),2015 (O)	68 24 HR	107
codern through decision	□ Fram AurituS	IS 5182 (Part 2), (O)	80 24 HIL	7.0
	Carton Morowde (CD) Mitegen Disside (ND2) Cizone (C3) Paricytele Matter (<10um) Particytele Matter (<10um) Solpton Disside (B02)	Mittingen Disside (NO2) micro graines Ozone (O3) micro graines Particulate Matter (<10,00), micro graines Posticulate Matter (<2,50m), micro graines	Mitrogen Disorde (NO2) Micro genies IS 5182 (Part II) (D) Ozone (O3) Micro genies IS 5182 (Part II) Particulate Matter (<10m) Micro genies IS 5182 (Part II) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate Matter (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particulate (<2.5mm) Micro genies IS 5182 (Part II) (D) Particula	Mininger Division (NO2) Micro genths 15 5182 (Part 11) (D) 8 HHR. Ozone (C3) Micro genths 15 5182 (Part 1) (D) 89 24 HR. Particulate Matter (<10µm) Micro genths 18 5182 (Part 1) (D) 160 25 HR. Particulate Matter (<20µm) Micro genths 18 5180 (Part 21) (D) 160 25 HR. Solpto (Dissolo (B02) Micro genths 18 5180 (Part 21) (D) 60 24 HR.

END -

Report Varified By

Hamil Difficult



For Mitra S. K. Private Limited

Authorised Signatory

thread Opton (Anthony (M.A.C.C. Boso Mode, Koltoka 700016 West Bengis India Tor. 28 T) 4172520; Dimestry Paul 91-92 (205000). Land with mid-star Whitela www.primak.com

Page 1 of 1

Dec No. WEIGHTEN WHILET







Scan for Portal

ULR: TC-595024000004625

Name & Address of Customer:

Tate Steel Ltd (MGM) Joda West

Address of Laboratory

West Bungar 7m, +91-7004036120 Email istayanlab@milirask.com

Building No. P. 48, Usayan Industrial Exteto. 3, Pagladango Road, Kalkata 700016

AtPo. - Jode Dist - Keonihar Chaha - 758004 India

TEST REPORT

Report No. 1

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/Y1517B

19/03/7024

MEKNEVED/2023/24/03/KOBBAIL

07/03/2024

17/03/2024 - 15/03/2024

Planninant Facility

3000156817/056, Data - 18/09/2023

Chemical

We hereby coully that the following sample Daywe by us had been aumorus with the following respice.

1. Group	Altorraheria Permilian
2 Description of sample	Ambieni Air
Unique (dentification of sample(if any)	NA .
Dett of sampling	05/03/2024
F. Place of sampling	Near H-Oustry Pinst Shellin
Environmental conditions owner wampling & Yearsburg	F) Transpersions (16-29 csg C 2) Barantetric Pressure: 707 mm of Hg 3) Rain tal
Sampling Plan & Memour used	
Monthication of the personnel performing sempling by MSK	IS 5162(P-(1,12) & USERV)
Field Equipments Used	LALIN NAVAK
	MSK/BBL/FIELD/RDS-1

Report No.: MSKPLEDIZOZOGATTISTE

Sample No.: MSKNB/ED/2023-24/03/KOBBAU

RESULT

Bi No.	Parameter	UOM	Method	Limit	
1	Arsenic as (Aa)	Emlan.	USEPAJO 3 4, June		Result
2	Benzene	Emirro grama		ō (Ammai)	BOL(DL10)
2	Banza(a)Pyrene		IS 5182 (Part 11)	D (Asmuer)	EDUDLI4 Z
4	Land (as Pp.)	ng/m3	15 5162 (Part 12)	1 (Armuar)	6DL(DL'0.5
- 5		Emirro craim	IISEPA IO II 4, June	7 (24 HOURS)	0.03
6	Mangariese as Min	EnAmy main	UBEPA-IO 3-4: June	feat Specified	100
pintari	Nickel as Ni	ing/in3	USEPA IG 2.4, June I. 10th November 2005, for exist	30 (Agount)	73

Statement of Contermity

END -

Personal St.

Daughmon

Dr. Otwoday Gwyy Teurpolisi in Charge

Danne

Authorized Stension:

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Strait Densican Res. Cell. A.J.C. Rose Robe fundas - 7000Hi, man berge, francis - 100 Hi, man berge, francis - 101 73 29 miles - 100 Hi, man berge, francis - 100 Hi, man berg, francis - 100 Hi, man berge, francis - 100 Hi, man berge, francis - 100

Page 1 arv

Address of Branch:

P.O. Barbii DF Keenipus Drosse 755 035





Som for Princip

Name & Address of Customer:

Film Sturi (.td.(MGM)_.Axia West

AliPo. - local Dec. - Keonghar - Odadur - 758034 Inola Par

TEST REPORT

Report No. :

Date:

Sample No. 1

Reference No. & Date :

MSKGL/ED/20/3-24/005230

14/03/2024

MSRGLIED/2023-24/03/00144

1000158017/056, Date - 15/01/2027

We heartly curilly that the tollowing amount Down by its basis basis enablems with the following marries

I, Gretage 2. Description of sample	AIR
. Unique Imagnification of same (# any)	Amtiant Air
Date of sampling	Jista West lists & Mr. Mines (JWMM)
Place of sampling	05/392024
Control results consecute during american & Interspect	Many H-Channy Rise Styles
- Sampley Lari & Markey Hard	Cloudy
AND THE PROPERTY OF THE PROPER	MA

Report No.: MSKGL/ED/2023-24/005230

Sample No.: MSKGL/ED/2023-24/03/00144

RESULT

SI No.	Parameter	HOM	Memog		-
1	Ammonia (NS-13)	mkm gm/m3		Limit	Result
2	Datter Manage (CO)		15 5100 (Fart 25).	400, 24 fgz.	16.0
N	and the second s	mainiG	15 5182 (Part 10) (O)	2 M/R	0.52
	(Witingan Diaxide (NO2)	micro grand	18: 5152 Pag 61 (D)	80.24 HR.	
-	Ciztine (C3)	Dring main	15 5182 (Part II)	The second second	73.3
1	Particulate Matter (< Utum)	Delargiotosis	15: 5182 (Part 27) (E)	980 1 HR	BUDGE 20.0
ű.	Particulate Matter/ 250m)	mice grains		100 24 MR	183
7	Sulphur Dimote (SO2)	7	13 Step (PT-24) 20 31 (D)	60 24 HR	88
	1002	Eming costs	(5: 5562 (Piet 2) (D)	80 24 HR.	6.9

END.

Report Verified By

Heard Office:



For Mitra S. K. Private Limited

Authorised Signatury

Pro No. MEMOGRAPHY





Building No. P-46, Usayan Industrial Scale 3. Papladanga Rend, Kolkulu 700015 West Bengal Tel: +91 7044036120 Small udpywieb@mitress.com





Scan for Portal

ULR: TC-695024000004522

Name & Address of Customer:

Tata Steel Lsc (MGM)_logs West

At/Po - Jeda Diel - Kanejhui, Odaha 758034 Imie

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKRE/ED/2025-24/M15178

TB/03/2024

MSKNB/ED/2023-24/03/EDK86G

07/03/2024

07/03/2024 - IE/03/2024 Pampies Facily

3000156017/056 Date - 16/09/2020

Cheminal

We hereby certify that the intowing sample Drawn by its has been analyzed with me subjects investor

1. Group	Africachang Pollusier		
2. Description at sample			
Unique identification of sample(rrany)	Ambieiil Air		
A Date of exempling	NA .		
	D5/03/2024		
5. Place of sampling	Mean D-Classov Screen		
. Sovironmental conditions during sampling & Transport	1) Temperature 10-29 day C 2) Barometric Pressure: 707 tom of Hg 3) Rain fall		
. Gampling Plan & Metrico beed	- 1.3C 2.5-041 CREIN Maintained		
to the sales of th	S-5(80/P-11.12) & USEPA		
I Martification of the personnel personning sampling by MSK	LALIN NAYAR		
Feld Equipments Used	MSI/UBBLIFFE DIRDS-8		

Report No. : Mais User2023-24/Min 176

Sample No.: MSKNB/ED/2023-24/03/EDK88G

RESULT

BI No.	Parameter	DOM	Method	Limit	1 10 to 10 t
1	Arsenii as (As)	ng/m3	DSEPAIOS A June		Result
2	Hinngene	micro unvim3	IS 5182 (Part 11)	6 (Annua)	BOL(DL:1.0)
2	Benzo(a)Pyrene	ng/m3	(S 5182 (Part 12)	5 (Acroust)	BDL(DLM.2
34	Lead (is Pb)	treitme anderd	HISEDAJO 24, June	1 (Annual).	BOL(DL:0.5)
6	Manganese as Vin	Ecology codes		1 (24 Hours)	0.03
5	Nickel as Ni	-	HSEPA-IO 3.4 June	Noi Specified	0.26
phision:		op/m3	USEPA-IO 3 A June 1. 10th Huvenites 2000, for Anni	20 (Angual)	0,0

Limit on per CPCR restlication, New Date: 18th Newworker 2005, by Amberia or quelly

Statement of Conformity NA

END-

thread 0;

Dr. Daweten Bonirjes

Designation

Textropia in Charge

Mumodel

Authorities Signatory.

Signature

Denn

Designation

Paccelotic de de Charge

THE RESIDENT PROPERTY OF THE AMERICAL SECTION.

The Test Espectation to promined month in a setting the promine of Marc S.A. Private Literary
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Shahota Contro-(Sh. Floor), 758, A.J.C. Sour Rossy Southern, 700016, House servicel, extend 51, 31-33-40140000 / (20080007 Floor, 51-33 1008)(200

Short profile White were distant

Fage 1 of 1

Address of Branch :

P.O. Same Of Knonjie: Onsse /Dd 035





Sage the Porton

Name & Address of Customer:

Tale Slew Lill (MBM) Joda Wasi

At/Po. - Joda, Dist. | Keordur, Opena - 758034 India Pri

TEST REPORT

Report No.

Date :

Sample No.:

Reference No. & Date :

HSKGL/ED/2023-24/005229

4403/2024

MSKGL/ED/2023-2/003/00183

3000456017/056, Date - 16/09/2022

vive needby pertily that the belowing nample Dayan by us has been enalizated with the bullburger insults.

1. Group	AR
2. Description of assign	Antiversi Air
3. Unique hiserification of sample(if any) 1. Cute of sampling	Joda Wert Iran & Mr. Mines (JWMMI)
Place of sampling	090300je
o, coveramental conditions during semulary & limitspart	Mine G-Guerry States
Easyling Plan & Method used	Qburs .
Commence Section of the last	NA .

Report No.: MSKGL/50/2023-24/0/6225

Sample No.: MSKGL/ED/2023-24/03/00143

RESULT

SI No.	Patrimoter	UOM	Mistand	1	-
1.	Acronomia (NESS)	Total Control of the		Limit	Result
2	Carbon Menopide (CO)	micro grainos	(5.5162 (Part 25)	400 24 HR.	11.3
3	Mil/signer Drawde (ND2)	mg/m3	(S:5182 (Part 10) (O)	2 0 60	0.60
400		micre grains	IS: 5182 (Part 6) (C)	90 24 HR	248
1	Oznne (Oil)	micro-gmires.	78-5162 (Feet W	100 1 HR	-
2	Particulate Matter (<10tm)	micro gravini	Ut-5182 (Part 23) (D)	100 24 HR	BOLIDE 200
	Planestary Matter (<2.5um)	Intergraphili	A STORYPHANIZONS IN		508
4	Bulphur Dioxide (SO2)	micro griffin)	18: 5182 (Part 2) (O)	60 24 HF.	99
			The second second	89.24 191	7.1

PMY

Report Verified By

Have Office:



For Mitra S. K. Private Limited

Authorised Signatory

DO: NO. MERCEDITECT









Buien for Portai

ULR: TC-6950240000004621F

Name & Address of Customer :

Tata Steel Ltd.(MGM)_lode West

Address of Laboratory :

West Birngal Tel: +51 7086035120 Email idayanlab@mitasii.com

Building No F-48, Disayan Industrial Estate. 3. Paglislange Road. Kokata 700016

AIPO - Jode, Dist. - Kebaniar Orbaha - 750034 Inches

TEST REPORT

Report No. 1

Date :

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/L15179

18/03/2024

MSH/HB/ED/2023-24/QU/ER1817

07/03/2024

07/03/2024 - 16/03/2024

Primarant Facility

3000 (58017/066, Date:: 16/09/2013

Chemiosi

We hereby carrily that the following sample Drawn by us mus been analyzed with the following recess:

Group Description of sample	Atmosphalic Potration
2. Unique Identification of semple(if any)	Ambient Air
. Date of sampling	NA NA
R. Flace of vanishing	05/03/2024
5. Environmental conditions during assuring a Transport	Near C-Guinty Suring Yard, 1) Tempureture 18-29 cog C 2) Baronabic Pressure, 707 min of Hg 3) Rain fall
Sampling Plan & Method used	No.5 Cold Chair Marraged
. Identification of the personnel performing semaning by MSK. . Field Equipments Used	IS:6182(F-11,12) & USERA LALIN NAYAR
The same of the sa	MSS/BBL/FIELDROSS

Report No.: MSn. UE0/2023-24/L 13179

Sample No. : MSKNB/ED/2023-24/03/EB1872

RESULT

SI No.	Parameter	NOM	Mathod	11.4	1
1	Arsenic as (Au)	PO/m3		Limit	Result
3	Benzene	47 77477	USEPAIO 3.4, June	6 (Armual)	BDL(DL:1.0)
- 3	Beruzo(iii)Pyreite	micro gm/m3	15 5182 (Fart 11)	5 (Austral)	BDL(DL 4.2)
- 4		Enligh	(S.5)((2 (Part 12)	1 (Amuzati	BDC(DL:0:5)
5	Chad (as Pb.)	Environment	HSEPAUS 0.4, June	7 (2n Higurs)	BDLIDLIDGE
4	Manganese as Mn	Enting print	USEPA IO 3 # June	Not Spediled.	
	Nichtli as Ni	ng/m2	USEPAJO 3 4, June		0.30
pinion	Limit ser risk conc	of could will be about the	1 18th Havemaker 2009, for rema	20 (Areust)	BDL(DL 5.0)

Statement of Conformity NA

END

mi By

Innigration. Texateural In Charge Authorized Standary

THOUSAND IN COMM.

Street Committee Floor, 248. A.F.G. Sees Hood, Fallace. (FODA), West Street. Inc., 17 (2-55) 487467 (2005) (FF Ea. In La 2042) (M. 19.)

Dr Davottan Baparjoo

Bannya

Page 1 of 1

Address of Branch :

P.O. Bertal Dr Keonther Orwas (bill 055)





Near for Photo:

Name & Address of Customer:

THEY SHOP LTD. (MGM) Joda West

AsPu. - Joda: Dist. - Kwonjhar: Odieta : 758034 Argin Per

TEST REPORT

Report No. :

Date:

Sample No.

Reference No. & Date :

MSKGL/ED/2023-24/025225

18/03/2024

M5KGL/ED/2029-94/03/06142

3090158017/056, Deto - 15/09/2023

We hereby certify that the following sample Essate to us has been

1. Group 2. Description of sample 3. Unique Identification of sample(if ang) 4. Date of sampling 5. Frace of sampling 6. Environmental constraint queun sampling & Transport 7. Sampling Hean 5 Method treat	AIR Ambient Air Joda West Less & Mr. Mines (JWIMM) 05/03/04/04 Near D-Chimny Station, Varie, Closery
--	--

Report No.: MSKGL/ED/2023-24/00/525

Sample No. : MSKQL/E0/2023-24/00/00142

RESULT

Si No.	Peramone	HOM	Wethou		
1	Ammasia (NH3)	mino quina		Limit	Result
2	Carbon Municipies (CO)		15 (182 (Part 25)	400 24 HR.	12.7
3	Albogan Dioxide (NO2)	mg/m2	IE 5102 (Part 10) (O)	2 8HR.	1 7 7 1 1 1 1 1
4	The second secon	miero pevous	18: \$182 (Pan 6) (C)	80 24 HR	9,55
4	Casine (OS)	Conting crisins	IS 1 82 (Part II)	180 1 (42.	21.5
-4	Particulari Matter (<10im)	Emino inclini	(6) 6 (82 (Plant 25) (10)		HDL(DL 20.0
.0	Particion Matter (<2.5cm)	Milura passinus.	3 5183 (FT 24)2018 (O)	100.24 HH.	178
21	Sulphut Dioxide (SD2)	maza avvita	in terms (0)	00 24 HR.	16
		- Linear Basines	(S-5102 (Pan2)_(D)	60:24 HSL	7.0

END

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Straightforwarder Flyor, 140, 4-15. Blue Mart Februe - 790016, While Bergel, but a Fell 19 (23 4) (\$2500 | 200000) | Nor - 57 E1 20000000 Child I white property man (Brigado West William) | Property | Head Office:

Page 7 of t

Mitra S. K. Private Limited Address of Laboratory :

DOUNG MENOGENERAL









ULR: TC-595024000004520F

Scan for Period

Name & Address of Customer ,

Shalling Mo. P. 48, Udayen industrial Salate. I, Pagradanga Road, Kolkata 700019

Tate Steel Ltd. (MCM)_ Jode Wmst

Wirst Banga Val. +91 //M4U3672U Email udayanlıb@mitrass.com

Al/Po. - Jode, Dist - Keonmar Delatia - 759934 Invite

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023424/Z15121/

19/03/2024

MSKNB/ED/2003/LOANS/SMLBELL

07/03/2024

07/03/2024 15/08/2024

Demanded Facility

3000156017/058, Dam - 16/09/20: 3

Chemical

We hereby certify that the following sample Drawn by us has seen according with the fertinents results.

2. Department on sample	Att osahurle Pointlen
3. Unique (dentification of sample(if any)	Ambient Air
Date of sampling	NA
5. Piace of sampling	05/03/7024
	Near Time Office
Environmental conditions during sampling & Transport	1) Temperature (16-29 and C 2) Berometric Pressure; 797 mm of Hg 3) Rath fall.
Sampling Plan & Method used	No. a. Cold Chain Mainteines
Infentification of the persursed performing sampling by MSK.	IS S152(P. 11, IZ) & USEPA LALIN NAVAR
Field Equipments Used	MSK/BBL/FIELD/RDS-2

Report No. 1 MEKPLIED/2023-24/2/1912/

Sample No.: MSKNB/ED/2023-24/03/5ML8BU

RESULT

SI No.	Pacimeter	DOM	ARTON C		
1	Artienic as (As)		Method	Limit	Result
2	Barzene	na/m2	LIREDA IO 2 4 June	o (Annua)	GDL(DL1.0
3		Emirmo ordina	15 6162 (Part 11)	5 (Acoupt)	BDL(DL 4 2)
4	Benzo(a)Pyrene	ng/m3	15 5182 (Part 12)	1 (Annual)	
4	Litad (as Pty)	miero grownii	USERA (C 5 4, June	1 (24 Hours)	BOL(DLD.5)
n	Mangenese as Mn	micro grama.	USEPARDS 4 Noe	Not Specified	0,02
Bellefon	Nickel as Ni	hg/ndi	USEPA/O 2 4, June	56 /A mounts	0,30 BDL(DL 5 ft)

Livel as per CPCR systEcution, Many Duller, 18th Newsman 2009, for symbols air quality

Sestement of Conformity

END -

hwipped by

DINDREN

Dr. Davigtain danage Teachyway in Classes

3 Barren

Dr. Devision stew

Federal III Compr

the facility and with the second of the second of the period of the peri

the fee date of sample of the first of the fee of the f Street Cours (on Ross) 747 Au C (see Files, lose se 70000, West Broad vota yet, 67 32 40 42500 / 2000000 for 67 32 400000

Brest Wedner od ore William was young in

Page Forts

Address of Branch:

P.O. Berlin Di Seportire Chesia 758 035





Sean by Pernal.

Name & Address of Customer:

Tetra Stori LichteliGM)_Jode West

AIPo, - Joseph Dell. - Kenegher, Odisha - 758034 (reza Per

TEST REPORT

Report No. :

Date

Sample No. :

Reference No. & Date:

MSKG_/ED/2023-24/JU0228

14/03/2024

MSKGL/ED/2023-24/03/0019 (

3010 1060 17/098 Disk = 15/00G4023 |

this necessy results live me transverse annuin Danier by to true been

2 Description of ample	AIR
L Unique Identification of semples any	Ambiest Air
Date of compiling	Jocks West Von & Mn. Minos (DVMIM)
Piece of sampling	05/05/2020
Earth control cours was maring semiling & Transport	Matel Time Office
Samping "our & Methon used	Cloudy
The state of the s	NA .

Report No. : MSKGL/EDI0023/24/005228

Sample No.: MSKGL/ED/2023-24/03/00141

RESULT

Si Ne.	Parameter	Uote		_	
1	Attiments (NI-I3)	market market a	Motival	Limit	Result
2	Carbin Monarde (CO)	mean graina	15.5 (RZ (Part 25)	-200 26 HR.	10,7
3.	Nitrogen Digness (NO2)		IS: 5/82 Part 16) (D)	2 BHR.	0.66
4	D2016 (D3)	many grades	(3: 5 (8:7 (Part 8)_(0))	50 24 149	21.5
5	Particulaté Mader (410pm)	mine emine	18 2 (42 (Martin)	180 1 HFL	BOL(DL:20.0
6	Particulate Matter (<2.5um)	miore provincia	(E 5/82 PW 23) (0)	100 24 HR.	210
7	Supriur Dississ (802)	micro croim3	\$ \$102 (FT-24) 2015 [O]	60 34 HR.	103
	200,000	Lauren dinner	IS 5182 (Pan 2) (O)	80 24 149	7.0

Report Verified By

Head Diffice:



For Mitra S. K. Private Limited

-ST-

Authorised Signatory

Page 7 of 1

DOUBLE MSIGNATING





Address of Laboratory :

Building No. E. 48, Lidayan Industrial Estate 3. Pagladerus Road, Kolkata 700015

West Beopel Tel: 181 7044035120

Email udayaniab@marask.com

Name & Address of Customer

AsPa - Juda D'st. - Keamfur Dakins - 758034 Inskr-

Tate Steel Lift (MGM)_Jode West

Scan for Portal

MSKPLJET/IZ/12/3-24/11590/H

MSKNR/FD/0/125 24/03/29/1054

ULR: TC-895024000003501

TEST REPORT

Report No.: Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date

Discipline:

14/03/2024 - 22/03/2024 Parisment Facility

3000156017/QSE_Date - 15/00/2023

Chiminal

22/03/2024

14/03/2024

We namely carried that the hallowing sample Erawa by in has been analyzed with the following resons:

2. Description of semple	Athogharis Potellan
2. Unique ident incation of sample(if env)	Ambient Air
Date of sampling	NA NA
Place of sampling	11/03/2024
Environments conditions during compling & Transport	Near Gangalguria Ft. (JVMMM)
Sempling Plan & Montred used Stemplication of the purpopositive design	1(Temperature 16-30 deg C 2) Barometric Pressure: 708 min of Hg 3) Rein Is No 8 Chit Char Mantaland 18, angure 17, 12) 6 USEPA
Field Equipments Used	Frank Mastri Akusti Kr. Setti MSKASE, FrELDWIDS, U

Report No.: MSKPL/ED/2023-24/11380H

Sample No. : MSKNB/SD/2023-24/03/2K1C34

RESULT

SINA	Parameter	OOM			
1.	Artenic as (As)		Method	Limit	Result
- 2	Benzena	ng/e/3	IISEPA IO 9.4, June	6 (Annual)	
3	Benzo(a)Pyrere	micro ymans	IS 5182 (Parr 17)	5 (Annual)	BOL(DL-1.0)
4		Em/gn	IS 9182 (Part 12)	1 (Amugh	BOL(DL:4.2)
5	Load (sa Pb.)	Zirkma otolini	USERA IO J.A. Junior		3DL(DL;0.5)
6	Manganese ≥ Mo	inium gm/m3	USEPA IO 3.4: June	1 (24 Hours)	BDL(D), (7.01)
	Nicke as NI	ng/ri-3	HOEDA HYDA A	No Spenfied	0.12
phniph :	Limit in par CPC	S notification, kines man,	i, tim November 2008, for Amb	20 (Annual)	BOL(DL 5 (t)

Statement of Confirmity MA

END

Sayswet By

Signeture

Mr. Plat Gargary

Senigration: Despuse Change Adhoused Signatury:

Lacy An other pre-

or you discrete every to the secretal tracks.

In Part Report and the harmonic of the secretal every per persons of Many S.K. Private Livings.

In Contract persons (a) he constant everyon (New yorks) and secretal every shall be reported for 15 days from the description of the Test Report. Performs everyoned a secretal everyone (New yorks) shall be reported for 15 days from the description of the Test Report.

The Report Performs everyoned and the Secretary of the Performance everyone and the Secretary of the Se

In the filter of many of the Test proper.

In the first part of the Test p Sand Office: Seeds Committee of Tigo at J.C. Ensurated Index. 20055 seed beings from the print of the Design from the print of the Design from the print of the p

Address of Branch:

P.O. Barthi Di Kuonykar Orossa 758 095





TEST REPORT

Report No.

Sample No. :

Date

MSKGL/ED/2023-24/02/545

17/03/3024

envante.

MSRGL/ED/2023-24/15/00490

3000 t56017/056, Dale - 15/(9/2021)

Name & Address of Customer:

THIS SEAR COLOMICAL JOHN WHAT

At/Po - Jude Utot - Keorghav, Odisha - 750004 India Piri

Reference No. & Date :

We froming corestly that the listigating earnpile Drawn by us has bleam enalyzed with the historical results

1. Group 7. Description of socials	AIR
Library Identification of exemple(if any)	Artiliari Air
Date of semaling	Jista West from B. Mr., Mines (JWIMM)
Place of sampling	11/03/2024
Contrasorered consideres in most amorting & Transport	Masi Gungrippio Fit (PyrMM)
Sympling Files & Marked overs	Diese & Surmy
A CALCULATION SCHOOL MAIN	INA.

Report No.: MSKGL/ED/2023-24/005545

Sample No.: MSKGL/ED/2023-24/03/00/00

RESULT

SI No.:	Payameter	LIDEA	Method	1	-
1	Ammenia (NHS)	Iniom growns	The second secon	Limit	Result
2	Circhon Morroxido (CO)		15 5162 (Part 15)	400 24 HR.	13.3
'3'	Mirosam Digarde (NCD)	mginia	15: 5182 (Part 10) (O)	2 BHS.	0.53
4	Oztine (O3)	mara gravništi	(9: 5182 [Part 5]_(0)	80 24 HR.	21.6
5		micrograma a	15 5152 (PMON)	100 t mg.	
0	Perfounds Manuer (<10 am)	more grains	Ita) 5182 (PWY 23), (CI)	100 24 HR.	HOLDL In o
2	Participate Matter (<2.5pm)	III Did gmilisa	15 5 1 tt (PF 24), 2 hrs (D)		176
1	Bullier Bloode (SO2)	Emireg (strim)	18: 5182 (Peri 2) (O)	60 24 NR.	-85
		- mard greens	USC 5182 (Part 2)_(0)	80 24 HIE	7.3

-EHD-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Shorth County (5th Rock), 146, A.J.C. Black Area Markets - FRESTE, West Barriel broke rel.—51 S. and return - 3050000 Face 31 St continues Habit programmed Start Website "make redom cores

Page 1 of f

Hasa Office.

DOWNS ASSOCIATION









ULR: TC-605024000000016F

Name & Address of Customer:

Tota Steel Ltr. (NCIM)_Joda West

Address of Laboratory :

West Bengal

Tel. - - 01 79-4000120 Email: udayanlab@mitrask.com

Bullding No. P+48, Upayan Indicatrial Enlate 5. Pagletimge Road, Kolkata 700016

At/Po. - Inda. Dist. - Keonihar, Colsha - 758034 Ireio.

TEST REPORT

Ruport No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of portonnance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/M15907

22/03/2024

MSKNBMET//00%-94M9/UC1006

14/03/2024

14/03/2024 - 22/03/2024

Demawoul Facility

3000158017/056; Clair: 10/09/2028

Chamical

We hamity sarply that the following sample Drawn by us hav been answers with the following results

2. Disseription of sample	Amogolierie Distution
5. Unique Irignetification of semple(if any)	Ambient Air
. Date of sampling	NA.
Place of sampling	11/03/2024
. Environmental conditions during campling & Transport	Near Railway Siding, (AVIAM)
Sampling Plan & Method used	1) Temperature 16-30 deg C 2) Berometric Pressure: 766 mm of Hg 3) Rain (4) Ng 6 Cold Crains Manhanno
Identification of the potagonal material	18:5162(P-(1), 12) A LISEPA
Field Equipments Used	Posit Marm Akash itr Sahi
The second state of the se	MSK/HEL/FIELD/RDS-1

Report No.: MSKPL/ED/2023-24/M10907

Sample No.: MSKNR/ED/2023-24/03/UG1C05

RESULT

SI.No.	Parameter	UOM	1		
1	Arsenic as (As)		Method	Limit	Result
2	Benzene	ing/m3	DBEPAJO 3.4, June	б (Апрыя))	BDL(DL:1.0
3	Вилиода/Ругине	micro gm/m3	IS 5182 (Part 11)	Б (Аппии)	
4	Lead (as Pb.)	Em/tp/	IS 5182 (Part 12)	T (Arimust)	SDL(DL:4.2)
5	Manganese as Mri	Enling croling	MISERA4D 3.4, June	1 (24 Hours)	BDL(DL:0:6)
6		micro gm/n/3	USEPA-IO LA June	Not Specified	BGL/DLoon
ng/min	Nickol Bs Ni	my/mi3	USEPAIO 3.4 June 1. Life however, 2000 for April	400 st.	80C(DL 5.0)

Statement of Conformity

END.

Revenued By

Signature

Designation:

Arthonous Signatory

Designation

Litt. In chayen

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In the gas of insulator is a process of adjoin that Scient Lagran (North Insulation Insu Sharper Course (Oto Floor), 748 A.J.C. Step Steps, Moteurs, 1000-10, Velon Garaget Late, Time of An et al Course (Oto Floor), 2002-250 Floor, 101 22 22 00 (2002) FMSF - International Committee Course (Oto Floor), 101 (101)

Address of Branch:

P.O. Bartsi Di Kannifur Onsse /ER 035





Segn or Porch

Name & Address of Customer:

Tata Stant Ltd. [MGM] Jose West

AUPD, - Jodd. Dief. - Kooniteer, Ociona - 758004. India Per

TEST REPORT

Report No. :

Date /

Sample No.

Reference No. & Date :

MS/KUL/ED/2023-24/006555

47/18/2024

M5KGL/ED/2023-21/03/20488

3000150017/056 Date - 19/09/0620

We investig earling that the melowing interprise Drawing by the

ARE
Amisjoni Air
Jodgi West Iros & Mr. Allnes (JWKM)
71/03/2024
Name Bulling Stilling Littleton
Charle Surry

Report No.: MSKGL/ED/2023-04/005565

Sample No.: MSKGLIED/2023-24/93/00489

RESULT

St Mo.	Paramutay	UCIN	AATH	-	
4	Ammonia (NH3)	-	Method	Limit	Result
2	Demon Manaxide (CO)	more grains	19-5192 (PMT28)	400 24 HR.	-
3 1		mg/m3	its: 5182 (Pmd 10) (O)	2 8111	124
4	Mitropin Diodge (NO2)	Ifeen anián)	15, 0182 (Part 6) (D)	80 24 HR	0.58
-	Ozone (O3)	titati gramii	18 5 (62 (PAV) 9)	1000	24.1
0	Procurate Motor (<10mm)	midra graveria		180 188	00UDL20J
A	Periouste Marter (<2 5um)	micro garásia	65: 5182 (//mr.23) (D)	100 24 HR.	221
7	Sulphur Dioxide (SO2)	The second second second second	\$ 5140 (FT-24),1075 107	GC 24 HR	106
	- Indiana	mittro govino	(5-51)2 (Piet 2) (D)	00.24 163	7.5

Report Verified By

Hoad Office

For Mitra S. K. Private Limited

Address of Laboratory

Went Bangai Tel : 491 7044036120 Emelt eldeyaniab@mitreels.com

Building No. P. 45. Odinyan indicatell Estate, 3, Pagtedanga Road, Kakasa 700016

Name & Address of Customer:

AVPo - Joda Dist - Knoning: Odisha - 788034 India

Tata Steel Ltd (MGW) Joda Wari

THE ME. MERCHENTINGS









Sidne for Portal ULR: TC-605024000005017

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date

Discipline:

MSKPL/EE/2003-74/W18600

22/03/2024

MSKNEVFDØ023-34/03/RV1G4U

14/03/2024

14/03/2024 - 22/09/2024

Permanent Facility

3000150017/006 Dwrs - 16/00/2023

Chattigat

We trendly contry that the following semple District by its has been unityred with the following resons:

2 Description of sumple	Afficeatures Paruling
, Unique identification of sample(II any)	Ambient Air
Date of sampling	NA .
. Place of sampling	11/03/2024
Environmental conditions during sumpling & Transport	Near H-Ousey Rest Sharter (JAMM)
Sampling Plus & Motor used	To represent the St. Cold Chain Maintained (C.2) Barometric Pressure: 708 mm of Hg 3) Rain tal No.8 Cold Chain Maintained
Identification of the someone and contract and	(5) \$187(\$201,12) & USEPA
Field Equipments Used	Praise Mantri Akrash Ec Salti
	MSK/BBLIPIELD/RDS-1

Report No. MSHP_JED/2023-24/VY158UZ

Sample No.: MSRAB/ED/2023-24/03/RV1CHB

RESULT

Chemical			KESULI		
BING.	Parameter/	UGM	arin.		
3	Araenic as (As)		Mathod	Limit	Result
6	Bergene	TI(S/th/3	LISEPA-IO 3.4, June	5 (Annual)	BDL(DL1.0)
2	Benzo(a)Pyrene	miki/a gm/m3	15 5182 (Part 11)	5 (Almual)	50L(DL:4.2)
4		ng/m3	15 S162 (Part 12)	1 (Annua)	
5	Line) (no Ptr	micro grains	USEPA 10 3,4, June	1 (24 Hours)	BDL(DL:0.5)
4	Manganese as Min	Exitant order	USEPA IO 3-4: June	Not Specified	0.02
to the con-	Nicites les NI	Emilge	USEPA10 1 # June	ne di	0.12
phinton:	Limit as per CPC	S millionles to Colo	5 18th freeworter 2000, for Ant	20 (Atinual)	BDL(DL:si b)

Limit as per CPCB millionites, russ Delts, 18th tro-worter 2008, for Aynosent all quality

treatement of Conformity

END

Restroyed By

Slowker

Obsequation

Stong JWI Clumbs

Althoroped Signatory

Marsh

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Sites W. Contro Roy Floor, 748 A.J.C. Rose Road, Samula 750016, West Married, Substitute, 10 20 401-1805; 20050000 Floor of 35 20050000 Place of Springer Committee was committeed and springer

Page Tof 1

Address of Branch:

P.O. Bartal Di Necoldar Onsuo 768 835





Scop Ser Ferral.

Name & Address of Gustomer:

Tima Steel Eld. (MCM)_Joch West

ALPb. Jobs Dist. - Receiptur, Odfales - 758034 Inclu Pin

TEST REPORT

Report No. :

Date:

Sample No.:

Reference No. & Date ;

MSKGL/ED/2023-24/005554

27/03/2024

MSKGI JEDIZOZS-ZWIJWOMIRI

3000158017/056 Dule : 15/09/2075

We haveby closely that the following seamon: Diesen by us they beam wealyzed with the follow

1. Groupi 2. Description of sample	AR
Unique identification of sample/e any/	Ambient Air
Date of sampling	Jodg West Ince & Mr. Mines (JWIMM)
Prace of sampling	11/03/2024
	Name M. Gigury Paral Diversar (LATERNIA)
Serioting Plan & Method seed	Cear's Surrey
The second stand	NA .

Report No.: MSKGL/EDI/2023-94/F05864

Sample No.: MSKGL/ED/2023-24/03/06488

RESULT

St No.	Paramohir	LIOW	******		
1	Ammonia (Ni-cu)	federa season	Method	Limit	Result
2	Sertion Morrowde (Cro.)	micro quiviria	S filez (Part 20)	400 24 HR.	16.1
1	Natiogen Ellevine (NCS)	Cun/min.	(S: 5182 (Pan 10) (O)	2 898	0.55
-6	Ottone (O3)	The grand	(5:5 NZ (Pad 6)_(0)	80 24 HR	
5	Percolate Matter (<10um)	arm flung	S STAZ (PARIX)	750 1104	231
8	Observation (within (within))	micro ger/mil	(5: 516) (Fact 23) (CI)	100 24 HR	9Dt(Dt:20:0
7	Particulate Matter (<2.5um)	Mich shines	15 5 top (*1524) 2019 (O)	60 24 HR.	201
,	Sofphair Dicorde (SO2)	Tricin control	(E: 0182 (Part 2) (O)	80 24 HH.	136

Report Verified By

Heird Office:



For Mitra S. K. Private Limited

DECNO: MERCENINGER







ULR: 70-805024000000001

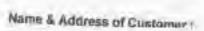
Address of Laboratory :

Building No. P. 46, Udayer: Industrial Estate, J. Pagladangii Rosa, Kolkata 700035

West Bengal

Tel. +91 7044006120

Email: Lidayanlab@mtrack.com



Tata Steel Ltd. (MCM)_ Jode West

AUPII. - Jode, Dist. - Keoninar, Oceaha - 750034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/015901

22/03/2024

MEKNB/EDG023-ANDVF8188D

14/03/2024

14/03/2024 - 22/03/2024

Demonant Feurly

3000156017/056 Date 16/09/2001

Chamical

We haveby centry that the following sample Drawn by us has been employed with the inflavory receive

2. Description of semple	Altrinistrante Prouden
), Unique Identification of sample(If any)	Ambient Air
Dete of sampling	NA
Place of sampling	11/03/2024
Environmental conditions during sampling & Transport	Name of Control (ANIMA)
Sampling Plan & Mathed (mail) Identification of the personnel performing ampling of MSK. Field Equipments Used	1) Temperature 10-30 rate C 2) Barometric Pressure: 708 cm of Hg 3) Rain fail No A Cold Crain Maintained (15 shabin 11, 12) & USEPA Protik Mount Réach für Sem (MSK/BBUTHELD/POS-8

Report No. 1 MSKPL/ED/2025-24/01590L

Sample No. 2 MSKNRJED/2023-24/03/F618ED

RESULT

SI No.	Farameter	UOM	Mathead		-
1	Arannic an (As)		Method	Limit	Result
2	Between	En/gin	USEPA40 3.4, June	D (Annual)	BDL(DL-1,0
3	Benzo(s)Pyrene	Enfung drafm	IS 5182 (Part 19)	5 (Annital)	
4	Lead (as Pb.)	ng/m3	15 5182 (Pan 12)	1 (Armoal)	BOLDLA2
5	Manganese as Mn	Entering of pile	USEPA 10 a.4, users	1 (24 Hours)	BDL(DL:0.5)
Б	Nidel as Ni	micra gna∞≥	USERAIC 34 Jime	Not Spesified	0.02
pinion		Pg/783	USEPA (O 1.4 June J. Herr November 2002: 10 May	44.34	(0.17 BOL(DL:5 0)

Statement of Conformity

END

Minimum od Em

Square

Missis

Mr. Title Guigage Executive Chemist Authorizen Signatory

Lib-trichwow

to media minimarky to the benny promise.

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Page 1 of 1

Address of Branch :

P.O. BADA O MONTHA Drives / 56 035





Sine for Percui

Name & Address of Customer:

Tain Sing Ltd (MGM) Joda Wasi

AtPo - Joda Ded - Secontair, Ostoke - 738034 multi-PV

TEST REPORT

Reference No. & Dale :

Report No. :

Ditte

Sample No.:

27/03/2024

MSKGL/ED/2023-04/PD/00467

M5KGU/ED/2023-24/105861

1000156017/056 Days - 15/00/2004

We hereby carrily that the tollowing sample Dru-

Group Description of sumple	AIR
Unique identification of sumpin(# any)	Ambient Air
Date of sampling	Joda West Iron & Alle Minus (JWMM)
5, Place of Lampling	11/03/2024
Committee Committee during Sampling & Transport	have to Garage Govern photosomy
Employ France Method was	Gran & Suran
The second time.	TRA

Report No.: MSKGL/ED/2023-24/005551

Sample No.: MSKGL/Etv2023-24/02/05487

RESULT

THA .	Parameter	UOM			
1	Arringon metas		Method	Limit	Result
2	Gatton Monorins (CO)	Weigns growns3	13 5182 (Part 25)	400° 24 HR	14.5
1	Mitisgray Eldpaids (NO2)	migrimit.	85: 5182 (Part 10) 031	2 81470	0.49
4.	Ozone (CG)	County project	IS: 5182 (Part 6) (D)	70 24 HR	210
4	Particuote Matter (<161m)	mion arrang	IS 5182 (MIN B)	180 1 166.	BOUDLING
9	Particulate Matter (<3.tam)	moss period	El-5102 (Part 23) (G)	100.34 HR	1/0
1	Sulphur Dichate (SD2)	nico (can/m3	ich carrier and and	80 24 HR	-88
			ID: 8167 (Pint.2) (C)	B0 24 HRL	57.4

Report Verified By

Head Office



For Mitra S. K. Private Limited

- French **Authorised Signatory**

Mitra S. K. Private Limited Address of Laboratory :







Scan for Portal

LE P- 7C-8950240000000119

Name & Address of Customer:

Building No. P. Mt. Urbyan Indisalnal Estato 5 Pagladarge Road, Kolkata 7000 is

Tata Stool Ltd.(MGM) Jodn West

West Berigal

Tel. +84 7044000120 Email udayanlab@mitrask.com

AtPis - Jode Dist - Keoninar Crasha - 766934 India

TEST REPORT

Report No. :

Date :

Sample No. 1:

Date of receipt of sample: Date(s) of performance;

Location of performance of

Reference No. & Date :

Discipline:

MSXPL/ED/2023-24/P15900

22/03/2024

MSKNEVED/2023-24/09/BUTEFF

14/03/2024

14/03/2024 - 22/03/2024

Permanent Facility

3000155017/956 Date 15/09/2023

Chemical

We have by centify that the following sample Drawn by us has been analyzed with the following random

2. Description of sample	Afternative Poliulien
3. Unique Identification of easipple(if any)	Ambient Air
Date of sampling	NA NA
. Place of sampling	11/03/2024
L Environmental conditions during sampling & Transport	Near D-Quarry Sorting Yard, [JVMM]
Sampling Plan & Markov used Identification of the personnel performing sempting by MSK Field Equipments Used	Tempinature 16-30 one 0.2) Barometrio Pressure: 706 em of Hg 3) Rain tal No & Coki Chian Mantaman Bib 102(P+1,12) & USEPA Prolit Manta Akash Kr. Betti MSK/BBI FIEL CURCIS-6

Report No. 1 MSKFL/ED/2025-2-WP19905

Sample No.: MSKNB/ED/2023-24/03/BU16FH

RESULT

SI No.	Parameter	NOM	Mathod		-
1	Americ se (As)			Limit	Result
2	Berttare	ngAm3	USEPA40 3.4, June	č (Affilial)	BDL(DL1,0)
3	filenco(a)Pyrense	micro gm/m3	IE 51/I2 (Part 11)	# cAmmah	BOL(01-4.2)
4	Lead (as Pb.)	ng/m3	(S.5182 (Part 12)	1 (Annual)	
5		Emling right	UREPA-10-2.4, June	1 (24 Hours)	BDL(DLD.5)
6	Manganese as Mn	Environ uclin	USEPA4034: June	Not Specified	0.03
	Nadice as Ni	6g/m3	USEPAID 14 had	14.11	0.45
pinion I	Limit as per CPC	B delification have their	i, 18th Neverther Zinze, for Amp	20 (Arinuel)	72.5

Statement of Conformity.

END.

Houseout Re

Overprotein Specially's Chamber Authorized Signatory

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The Cate of this part of the Cate of the C end Diffice: Shorth Guren (Ith Foor), NO. A. I.C. Short Revol. 100 All. 2000(1) Types Revol. 100 All 2010(1) Types Revol. 100 All 20

Page 1 of t

Address of Branch :

P.O. Baroll Di Knorthar Oyeas 75/1035





Shed her flower

Name & Address of Customer:

Time Steet Lhi MGM5 Jode Ward

AtPo - Jode, Det. - Keonjier, Octobe - 758034 train Me.

TEST REPORT

Report No :

Dale:

Sample No.:

Reference No. & Date :

M5KGLIFTV2023-24/045547

27/03/2024

M5KGL/ED/2023-24/05/30086

3907156017/056, DHE+15/04702-

We havely during that his hadewing analysis Drawn or up has been applying with the Advances months.

2. Description of sample	AIR
Unique identification of sample(if any)	Ambiere Air
bala of sampling	Joda Wett Iran 8 Mr. Mrtes (JWMM)
E. Place of sampling	(1708/2024
Supplemental contributes maring completing & Transport	Manage Committee of the
- Sampling Flor & Married Uppet	(Padr & Surry)
The state of the s	INA

Report No.: MSKGL/ED/2023-24/MISS47

Sample No.: MSKGL/ED/2023-24/03/03/03

RESULT

SI No.	Parameter	DOM			
1	Ammona (NH3)		Method	Aimir	Remail
1	Carson Mosocite (CO)	messo dampera	65 5182 (Prin 20)	400.24 HR	- Company
3	Navigna Devide (NO2)	Emired	18: 5182 (Part 10) (D)	2 0HR.	12.5
6	Ozone (EE)	Seed grains	18.5382 (Part &) (O)	80 24 HR	0.82
5	Permulate Matter (<10um)	mine grund	15.5182 (Part 0)	190 1 193	20,1
6	Particulate Matter (<2 Sum)	Environ materi	15, 5162 (Part 23) (O)	100 24 147	BDI (DL:20:0)
7.	Sniphur Dicede (502)	District Council	15 S182 (PT-24) 2019 (0)	60 24 161.	100
	overse exemple (SOZ)	mesto-giment	(E) \$182 (Part 2) (C)	60 24 HR	7.2

- EMO ---

Report Verified By

Houst Office:



For Mitra S. K. Private Limited

Dec No.: Althought tout





Building No. P. 48, Udayan Indicensel Estima-3 Paplacenga Road Kolksta 700015

West Songa

Tel +91 7014936120

Email drayanillo@milresk.com







Sam for Pertail

ULR: TC-895024000005014F

Name & Address of Customer:

Tota Stool Ltd (MGM)_Joga West

Al/Po, -Joda, Ded - Keonjhar, Odista - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Datu(s) of performance:

Location of performance of Reference No. & Date ::

Discipline:

MSKPL/ED/2023-24/A15909

72/03/2024

MSKNB/ED/2023-24/03571100F

14/03/2024

14/03/2004 - 1/2/03/2024

Barranary Foolig-

3000156017/058, Onto = 16/09/2023

Chemical

We hereby carely that the following sample Drawn by us has been unabsend with the following rounts.

Group Sescription of sample	Atmosphore Palenne
Linique (destification of sample(if any)	Ambient Air
Data of eampling	NA NA
Piece of sampling	11/03/2024
Environmental conditions during sampling & Tolomport	Next J in a Diffice (LIVMW) 1) Temperature: 16-00 (teg C 2) Barometric Pressure: 708 mm of Hg 3) Rain tell No X Cold Chair Materials
Sempling Plan & Method resed	No & Cold Chair Material to 15:5162(P-11, (2) & USEPA
Humitication of the personnel performing sampling by MEK. Field Equipments Used	Profit Manus Akash Kr. Setti MSA/BBL/HELD/RDB-2

Report No.: MSKFL/ED/2023-24/A18908

Sample No.: MSKNB/ED/2023-24/03/711C2E

RESULT

SINO.	Parameter	UOM	Method		-
1	Arsenic as (An)			Limit	Result
2		10/m3:	LISEPAJO 3.4, June	o (Annua)	EDL(DL:1.0)
3	Benzone	micro gmim3	(5 5152 (Part 11)	5 (Annual)	BDUDL4.2
-	Senzo(s)Pyreiva	Emlor	IS 5162 (Part 12)	1 (Annual)	
.0	Lead (as Pn)	micro gavinos	USERA10 24, Jums	The same of the sa	BDC(DL 0.5)
6	Minganese as Mr.	micro gm/m3	LISEPA-IO 3-4 June	(24 HOMS)	0,02
6	(Nicke) as Ni	ng/m3		Not Spectied	9.57
ricinigo			USEPA-O 24 Julies	20 (Almiral)	EDUDI S D

Limit as per CPCB notification, these matte, 18th November 2009, for America at quality

Statement of Conformity.

END

Mr. Poli Gargoly

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Employe Chinnel

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to conseque part of part and a first support of the consequence of the Styled Cores (30 Feer), 746, 74, C. Som Book (44 - 1000) B. V - 11 on India. Tel. B1 53 (21/5005 / 23/6007 Fee 9) 35 23/00000

Seed into Decision core Withhis sees in East 2011

Address of Branch :

P.O. Bamil Di Avonitar Onssa 758 035





Sizes for Pierral

Name & Address of Customer:

Tata Shirif Ltd (MGM) John West

AIPe, Jose Dist - Knorgram Oderts - 758034 mins Par

TEST REPORT

Report No. 7

Date:

Sample No.:

Reference No. 8 Date :

MSKGIJED/2073-24/005553

27/03/2024

MSKGLEDVEDEL-24/94/00/88

30001568) 73056, Date - 16/06/2021

We seesby sarrily fruit the hillowing sweep's Drawn by so has born graduated with the following possion

2. Description of exemple	AR
3. Unique lasminisation of sample(il may)	Anthero Air
Date of sampling	Joda Wey Irox & Mr. Nince (JAMM)
i. Place of sampling	11/00/2024
Environmental Comment authors & Transport	Main Time Office, Charles
, Samping Pinn & Welford cond	Clear & Sterrie
Comment of the Commen	NA .

Report No.: MSKGUEDIZIO23-04/016683

Sample No. 1 MSKGL/ED/2021-24/05/06/85

RESULT

SI No.	Parameter	UOM	-		
1	Ammona (NH2)	interviews	Mathod	Limit	Result
2	Carpon Mornaula (CO)	Infert griffing	19 5162 (Part 25)	400 24 HR	152
3	Mineger Diamer (NCC)	mg/m3	(5: 5182 (Part 10) (O)	2 898	11.40
4	Oznoe (CII)	International Control	15:0162 (Part 6), (O)	II0 24 HR	
8		micro gminis	(9.5)(82)(Part V)	150.1 HR.	22,4
8	Particulate Matter (< (0um)	micra golvera	(6: 516) (Fix: 23), (0)		BDL(01:20,0
7	Particulate Motion (<2 Sum)	thins point	(U) 10 S (NC-17) 2015 (U)	100 24 HR.	205
1	Sulphui Dioxide (SG2)	Emimp ordina	IS: 518E (Part 2) (D)	60 24 HEE	90
			FMI	00 34 HM	7.6

- EMD -

Report Verified By

Him Direct



For Mitra S. K. Private Limited

Authorised Signatory

Manual Carlos (2007-201), 750, A.J.C. Hour Wasel, Kolapta - 7650701 West Bergal, India, The 1917 22-46-10 May 120500 877 Per - 24 An 220500000 Should May 2500 10 Thomas www.payeel.net

Page 1 of 1

DIGINAL MENDERATURAL







Sour for Portal

IILR: IC-695024000005025

Name & Address of Customer:

Tata Stee Ltd.(MOM) Joda West

Aridress of Laboratory :

West Beogat Te +917044030120 Email mileyaniab@milraux.com

Building No. P. 48, Udayen industrial Estate. 3, Pagladanga Road, Kokala 700015

At/Po. - Jeda, Dist. - Keunina: Oriana - 758034 Inom

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/V1890V

22/03/2024

M5KNB/ED/(02)LDM/03/7V1CUL

14/03/2024

14/03/2024 - 22/03/2024

Palmaneri Fedity

3000156017/059, Ditte + 18/04/202

Chemical

We needly certify that the following sample Drawn by us has been unabount with the binaries resous.

1. Group 2. Douartetion or sample	Administration Pediation
Linings Ideoidionion of sample(II any)	Ambinor Air
Date of sampling	NA
Place of sampling	12/03/2024
Environmental conditions during sampling & Transport	Near Conceignate Pir (, William)
Sampling Plan & Metrico used	Pemperature: 19-30 deg C 2 Barometrio Pressure: 709 mm of Hg 3; Rain to No. 4 Culd Charu Mangapard IS 5192(P-11, TJ) # USEPA
Field Equipments Used	Dhambadhar Das Cuin fusik MSNOBEL/PIELCORDS-4

Report No.: MSKFL/ED/2020-24/V1590V

Sample No.: MSKNB/ED/3023-24/05/2V1GR

RESULT

BI No.	Parameter	- contra				
1		MON	Method	Limit	Result	
7	Arsenic as (As)	Emilgin	USEPAJO 3.4, June	6 (Annual)		
-	Berizzing	micro gm/m3	(\$ 5182 (Pari 11)		BDIL(DI_1.0)	
4	Bertzo(a)Pyrene	redm3	IS 5182 (Part 12)	5 (Annual)	BOL(DL42)	
4	Lead (as Pb)	micro gaves	LEEPAHO.S.4, num	1 (Admun)	BOLIDLD.5)	
5	Manganese as Mn	micro grown3		(24 Hours)	BDL(DL'0.01	
0	Nickei es NI	res/m3	LISEPA-IQ 0.4: June	Not Specified	0.29	
ptrilon			USEPA ID'S 4, Jime 1 19th rhowarder 2009, per Ame	20 (Annual)	90L(DL 5:0)	

Statement of Conformity MA

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FORWARDS BY

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Address of Branch:

P.O. Dorot DI Krahninor Orbass 738 035





Total for Evrisi.

Name & Address of Customer:

Title Street Ltd., (MGM)_Javia West

Atting - Josep, Diek. Knorgher, Oddelse-758034 bots Pin.

TEST REPORT

Report No.:

Dane :

Sample No. : Reference No. & Date : MSKGL/E00023-24/005856

27/03/2024

M\$KGL/ED/0023-2/(0,000496

3000155017/056 Dwn - 15/09/2023

We revuly carrier that the following sample Dimenby in his bean analyzed with the following results

1. Croup 7. Description of entropis	AR
Inique Mentification of Sample(If any)	Attitiont Air
4. Date of sampling	Jodn West Iten & Mr. Mines (JWMM)
5. Place of sumpling	12/03/2024
Communications shows surroug Transport	Mass: Gamergado Pt offWalder
. Sempling From & Philipped count	Cresc & Stormy
The support The Area Institute of Herman	NA.

Report No.: MSKGUED/2003-24/065560

Sample No. MSKGL/EDI2023-24/03/00496

RESULT

SI NO.	Parameter	licai			
15	Africania (NH3)	-	Motton	Limit	Result
2	Centum Monaride (CO)	mice grans	IS 5162 (Part 25)	400 24 HFL	12.8
3	Mtrogen Diplose (NEW)	Tinigm	15; 5182 (Par (0) (C)	2.89(%)	0.56
4	Clarine (CV)	=loro greeno	65 5 152 (Fest 81_(D)	80.24 HR.	21.0
5.	Participate Matter (*10mm)	micro-grafinal	S 5162 (FeJ1'9)	180 1 HR.	EDL/B(.20.0
6.	Particulain Matter (<2,50m)	TACTO COMO S	15 3161 (Pel 25) (0)	100 24 HR.	182
7	Sulphur Dickder (SCI2)		(5 Date 191-24/2018 (C)	50-24 HR.	88
		reican gmins	(S: E182 (Part 2)_(D)	80 24 HAL	8.7

- END ---

Report Varilled By

For Mitra S. K. Private Limited

Authorised Signatory

Page 1 at 1

Disc No. MENUGENINOT









Email udayanish@mitrask.com

Building No. P-46, Udliyan Industrial Estate, 3 Pagladango Road, Kolkuta 700011.

Scan for Portal ULR: TC-6960240000050245

Name & Address of Customer:

Tale Steel Ltd.(MGM)_lode West

Address of Laboratory .

West Bengal Tel. -01 764-030120

AUPs. - Joda, Dist. - Kesnyhir, Odlahu - 756034 (mko

TEST REPORT

Report No. ? Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Disciplina:

MSK/FL/ED/2023-24/K1580K

32/03/2024

MEXIND/ED/JOZS-24/09/V61C48

14/03/2024

14/03/2024 - 22/03/2024

Downsont Forms

3000155017/056, Date + (6/08/202)

Chamical

We haraby cersify that the following sample Drawn by his has been attakend with the following course.

Description of cample	Atmospheric Patielles
United Identification of sample(if any)	Ambien Air
Date of sampling	NA .
Place of sampling	12/03/2024
Syvenomental conditions during symptomy & Tompount	Near Railway Siding, (JAMMA)
Sampling Plan & Mothod used	1) Temperature 19-30 dag C 2) Barometric Pressure: 709 mm of Hg 3) Rein to No & Cold Chart Montanued
Identification of the personnel porture.	(8 5182(P-11.12) & USEPA
Field Equipments Used	Dharbhidhar Dos Lain Maix
	MSI/UBBILFRELD/RDS-3

Report No.: MIKEL/ED/2025-24/(1090):

Sample No.: MSKNB/ED/2023-24/03/YEI C8S

RESULT

SI No. Parameter		Parameter limit			
,		TION	Method	Limit	-
2	Arsenic as (As)	#g/m3	USEPA-IO 3.4. June		Result
2	Benzena	micro gm/m3	15 5182 (Part 11)	6 (Annual)	BDL(DL:1,0)
- 3	Bertzo(a)Pyrene	P IZPITE	IS 5182 (Part 12)	5 (Annual)	EDL/DL42
4	Levid (no Ptr.)	migra pm/m3.		(Arsqual)	EDL(DL(0.5)
5	Manganese as Mn	micro gm/m3	HSEPA 15 3.4, June	(24 Picture)	BDL/DE-0.01
fi .	Nickel as Ali	-	LISEPA-IO (Lab June	Not Specified	0.27
pinion:		ng/m3	USEPA-IO 1-4, June	20 (Armusi)	BOLIDL 5.0)

Limit as per CPCB notification. New Durin. 18th Hovember 2009 for weappert sir quality MA

Statement of Conformery

END-

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Executive Cristons

Automod Signalary

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Page 1 att

Address of Branch:

P.O. Borbil Dy Kolonitus Onssa 759 035





Sewi for Portal.

Name & Address of Customer:

Take Sheet List (MGM)_Jode West

AVPo - Jose Dist: - Keonjier, Odiska - 758034 Indus Mil

TEST REPORT

Report No. : Date

MSKGL/ED/2003-14/105550 27/03/2024

Sample No. :

MSKGL/ED/2023-24/05/00/190

Reference No. & Date :

3001155017/056, Dale - 11/horsegs

this herency carrier into ma software quantity Elemen by use fine because valvesed with the following man

2. Description of example	AR
3. Unique (dangingation of servents and)	Anthent Air
4. Date of sampling	Joseph West Iron & Mr. Minery (JIWMM)
5. Place of sampling	12/03/202A
Same manufacture and direct strength Transport	Mayor For Among Strikeng, Territorian
Swipping Plan II. Melingal propil	Disa 5 Girity
THE CALL CALLS CONTINUE STATES	NA .

Report No.: MSKGL/ED/2023-24/005550

Sample No. ; MSKGLIEIN2023-94/KSX00400

RESULT

SINO	Paramitar	Udek		-	
1	America (NHS)		Melihad	Limit	Reputs
2	Caroni Monaside (CO)	triano gyawag	(B 5182 (Part 25)	400 24 HR	
3	Milliogen Diaside (NO2)	(Hight)	15/51fi2 (Part 101, (0)	2 2146	0.91
4	Dzeine (CB)	mana gerina	86-5182 (Pan 6) (O)	80/24 HR.	20.0
5	Farticulas Masse (<(Dues)	micro control	HS DUBZ (Part fly	100 1 FEE	BDL(0) 200
3	Pertinante Matter (<2.fam)	moutavia	15: 5162 (Part 24)_(Q1	100 20 1177.	215
1	Suppleir Dicembe (SD2)	Swing gove	15 STOR (FT CALZDIS [U]	60 24 HR	102
		The state of the s	15: 5182 (Pen 2), (U)	80 24 EFE.	9.1

END -

Report Verified By

tfeed Office:



For Mitra S. K. Private Limited

Address of Laboratory

Balding No. P. 48, Lidayan Independ Estate; 3. Pagladanga Road, Kakata 700019

Wes Bengal

Tal 401 7044038120

Email udayanlab@mirasa.com







Scan for Portal

ULR: TO-880024000006023F

IVII NO.: MERICENTINO

TEG FIND PHEEFERTION

Name & Address of Customer

Tata Steni I vd. (MGM)_Joda West

AMPo, - Joda, Dist. - Kennihar, Odiska - 758034 Inne

TEST REPORT

Report No. : Date:

Sample No.:

Date of receipt of sample;

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSRPL/ED/2023-24/1/10a(ld

22/03/2024

MEXMB/ED/2025-24/03/WHICAY

14/03/2024

14/03/2024 - 22/03/2024

Permanent Facility

3000150017/056, Date - 10/09/2023

Chemical

We hereby contry that the following sample Drawn by us how been analysisd with the rotowing results

Li Gryup 2. Description of example	Altreasphere Polistica
3. Unique (dentification of sample(2 any)	Ambient Air
A Dete of sampling	NA .
5. Place of sampling	12/03/2024
6. Environmental conditions during semining & Transport	Near H Querry Rest Shaller (JWMM)
Sampling than & Method sized	1) Temperature 19:30 deg C 2) 6arcmetric Pressure 709 mm of Hg 3) Rein In
. Identification of the personnel	IS 51/0/17-17-18 LISEPA
Find Equipments Used	Drambruche: Das Latin Nesi
	MISCHELIFIELD/PCS-1

Report No. : MSKPLEDGDZS-24/N15809

Sample No.: MSKNB/EDI2023-24/03/M9104V

RESULT

St No:	Parameter	Ocea			
1	Artenic as (As)	UOM	Method	Limit	1
2	Berzene	rig/in3	LISEPA IO 3 4 June	100	Result
3		micro gm/m3	(5 5182 (Page 11)	6 (Annual)	BDL(DLTD
	Bertto(a)Pyrene	Km/lg/r	18 5182 (Parl 12)	5 (Annua)	BDL(0)_4.2)
9	Lead (as Pb.)	Awing grown	JEEPA-ID TA JOHN	T.(Annual)	BDL(fill id sy
	Mangehesa as Ma	(hipto proving	USEPAID 24 June	1 (24 Haurs)	0.03
0	Nickel as Ni	ivy/m3		Val Specified	0.30
DALMOR	Limit sa per CPC	B nettification Tunio Con-	USERVAIO 5.4, June Light representer 1909, for Amb	20 (Annual)	8.5

Statement of Conformity

END

Rismond By

Signature

Empre Charge

Authorized Signatory.

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is their players shad not be represented account to the common of New S.X. Private A length

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to the case of the Email (Communication) 748 A JT. Some Obert Police (County treet Being A Jesus County County (County County County

Page Tori

Address of Branch:

P.O. Berbs Ot Knonyher Crisses 758 035.





Stee by Perso.

Name & Address of Customer:

rare Speni Ltd./MGM/L. Joda Wooll

AttPo - Joda Dist. Koormat, Odisha 759004 India Per

TEST REPORT

Report Nou:

Dain:

Sample No. :

Reference No. & Date :

MSKGLJED/2023/24/06649

27/03/2020

MSKGL/ED/2023 24/03/00484

3000158017/050, Date - 15/00/2003

We threely curely that his following sample Drewn by us this bar

1. Group 2. Description of sample	AIR
2. Unique Idonification of sample(it any)	Arrojent Air
4. Date of sampling	Jorda World (no. 5 Mr. Maries (JWIMM)
Photo ot sampling	12/03/2021
Musleoniers for committees control compling & Transport	Nepar H-Omeroy Road Struker Williams
Semanting when a charried users	Dina & Stanty
The same of the sa	N/A

Report No. : MSKGL/ED/2023-24/005549

Sample No.: MSKEL/ED/2023-24/03/00494

RESULT

al No.	Paramidu	MON	Muthag		
1	Ammonia (NH3)	Prioro grafing		Limit	Result
2	Klarbon Monetide (CCI)		(8 6162 (Part 25)	400.24 HR.	15.7
3	Nercent Disease (NO2)	TE/H3	\$2.5782 (Part 10) (O)	T HIPL	5.49
4	Ditter (C)3)	mon gm/m2	(5. 0 l82 (F st) 6) (O)	80.24 HR.	21.8
5		Emargarain3	IB 5 142 (Pag. 11)	180 1 181	
0	Particulate Matter (<10cm)	Continue costem	18: 0182 (Parc 23) (O)	100 34 MR	EDL/DL-20
7	Partcointe Matter (<2.50m)	migra greens.	3 5181 (PT 34), 1019 (O)		Edit
0	Supher Florage (SO2)	meru grema	IS: 5182 (P=+7) (O)	60 24 HPC	98
			END	80-54 HET	6.0

END.

Report Verified By

Head Office.



For Mitra S. K. Private Limited

Mitra S. K. Private Limited Address of Laboratory

DOLNO: MSKIGEN/1007







ULR: TC-698024000005022F

Silar for Portal

Name & Address of Customer:

Building No. P. 43 Lidayan Industrial Estina 1. Paglegange Road Kokste 700015

Tata Sheel Ltd (MGM)_Joda Wasi

West Emogal 761 -57 7044U3612U Email udayan ab@milrasc.com

AtPo - Joos Dist - Keoniher Oriena - 158004 lives

TEST REPORT

Report No. : Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/1023-24/2*540V

22/03/2024

MSKNEVED/0023-24/00/EH-CSF/

14/03/2024

1/4/03/2024 - 22/03/2024

Permanent Facility

3000158017/856 Date - 16/09/2023

Chemical

We learn by certify that the toliciting sample Drawn by us has been arranged, with the reference results.

Group Description of sample:	Almesol-wire Palketion
5. Unique (donutication of sample(II bay)	Ambleit Air
). Date of sampling	NA
Place of sampling	19/03/2024
Environmental conditions during sampling & Transport	Near E-Quarry Somer (J)/M/M)
Sempling Plan & Wetness used	Temparatum 19-30 day C 2) Barometric Pressure: 709 mm of Hg 3) Rain fa No.5 Cold Chain Minimone.
Identification of the personnel performing semping by MSK.	(5:5182(P.11,12) & USEPA
Field Equipments Used	Dheribruther Des Lain Muil-
	WSW.BRL/TELD/RDS-B

Report No.: MSKPLJED/2023-24/2 15/90V

Sample No.: MSKNB/ED/2023-24/03/861CSR

RESULT

SI No:	District or other				
	Parameter	NOW	Method	Limit	1
1	Americ as (As)	ng/es3	LISEPA-IO 3.4. June	Limit	Result
2	делгер	Entirely orang		6 (Afficial)	BDL(DL:1.0)
1	Buruso(ii)Pyrana		IS 5182 (Pan 11)	5 (Arinesi)	BDL(DL 4.2)
4	Leed (as Pb.)	ilo/m2	15 5182 (Part 12)	1 (Amenaly	BDL(DL 0.5)
5	Mangeneso as Mo	mich gmind	DSEPA40 54 June	(24 Hours)	
8	Nickel as ful	miem gmas 3	USEPA-ID Se John	Not Specified	BDL(DL 0.01)
pinion		mp/m3	LGEPA-IO 3.4, June	24 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.3

NA.

Statement of Conformity

END -

Petioner

Authoristical Signatury

Desgrutter

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Page 1 of I

Address of Branch :

P.O. Barra Di Kmanihar Drissa 758 835





Smit he Parmi

Name & Address of Customer :

Tein Sicul Jrz(NGM), Jods West

AUFV: -Joss, Ost - Keonyhar, Odlulm - 758004 India Prin

TEST REPORT

Repuri No.:

Date :

Sample No. :

Reference No. & Date :

MSKGL/FD/2023-24/705546

27/03/2024

MSKGL/ED/2023-74/03/00/93

300015ee17/050 Date - 15/09000 1

Ver family centry that the following statistic Dientil by We had been analyze

Antien: Av
JOSE West Wat & Mr. Minns (JWMM)
12/00/2024
New Di-Quarty Street, College,
Clear 5 January

Report No.: MEKGL/ED/2023-24/00/568

Sample No.: MSKGLED/2023-24/03/09493

RESULT

8/80,	Parameter	DOM			
1	Ammonia (NH3)		Michag)	Limit	Result
2	Cartiers Municiple (C(1)	micro greens	15 5 1 (12 (Part 25)	408 24 HR.	
3		mg/m2	5: 5182 (Part 10), (CI)		13.8
4	Neepgen Diceios (NO2)	miero gelijaci	IS STEZ (Flatt 6): (CI)	2 8MR 80.24 HR	0.51
5	Date (OB)	(Bibliograph)	15 ≤702 (Part 9)		72.5
6	Printesting Matter (<10m)	micro grains	\$2 5102 (Part 23), (O)	780.1 HPL	BDC/DL20.0
7	Portouille Vader (<2.6im)	(Lean-page)	E5182 (77-24),2018 (0)	100 De HR	183
-	Suphia Dioxoda (SO2)	/тега докта	15: 5382 (Pan-2) (O)	60 24 HR.	89
				80 24 HP.	8.7

Raport Verified By

Head Office



For Mitra 5, K. Private Limited

CIGN THO MEKNEDATIWEET









ULR: TC-6950240000050211

Name & Address of Customer:

Tata Steel (Jd.(MGM) Joola West

Address of Laboratory :

Www.Bengal 7ar.; -91.70a4036120 Етай избауштар (филикан); ост

Bulling No. P. 48, Udayan Industrial Estato J. Pagladanga Road, Kolkata 700049

ANFO - Jode Dat - Keonjhar Odeko 759034 Indja

TEST REPORT

Report No. 1 Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/1159/3

22/03/2024

MSKNB/ED//023-34/014X+C76

14/03/2024

14/03/2024 - 22/03/2024

Demonstratify

3000456017/056 Daw - 16/09/2023

Chemical

We hemby centify that the following sample Drawn by us has been environed with the following ranchs.

7 Dandription of samply	Almenthere Policies
Unique Identification of semple(If any)	Amblent Air
I. Data of sampling	NA NA
s. Place of sempling	12/03/2024
Environmental conditions during a moling & Transport	Near D-Guarry Sorting Yang (JVMMM)
Sampling Plan & Mathod smed	1) Formulation 19-30 dep 0. 2) Barrometric Pressure: 709 mm of Hg 3) Ram to No.5. Colo. Chom. Maintenant 15:51 62/P-11, 12 (#155P) A
identification of the personnel asylomning semanne by MSK. Field Equipments Used	Dhambrucher Das Latin Neth MSK/SatLiffer DrROS-8

Report No. 1 MSKPL/ED/2023-24/110903

Sample No.: MSKNB/ED/2023-24/03/4X107F

RESULT

51 No.	Parameter	Home	1		
1		UOM	Method	Limit	Result
7	Arsentic as (As)	ng/m3	LISEPA-10.2 = June	6 (Annual)	
9	Banzene	Emiling olding	15 5182 (Plet 11)	5 (Annual)	BOL(OL:1:0
4	Bergo(a)P/rene	ng/m3	15 5182 (Part 12)		BDL/DL/4.2
-	Lead (as Pb)	Ewiring crashmit	USERA IO 3 4, June -	1 (Annual)	BOL(DL 0.5)
5	Manganese as Mn	micro grains	USEPAID 24 Aus	(24 Haura)	0.05
6.	Nickel as Ni	hg/m3	USERATO 3.4, June	Not Specified	0.40
Thomas	Limit as per CPC		L this representation against the Amic	20 (Annuar)	12.6

Limit as per CPCB politication. New Parks, 18sts represented 2008, for Ambient all quality.

Statement of Conformity NAC

END.

Phylinesi by

History

Designation Statution Chemist Authorized Signatory.

Harmer

Berne Designation

Lab to charge

to results related thy to the owner; Young.

The Test Property and not no represented decapt by (i.e., website large-sentence of North 2 K. Phones Larges), and of the decapt of the Test Royal Control of the Internal Contro to record plant of the Plant Report.

In the date of the set of the First Report.

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In the date of the first Report.

Street Course (9th Foot, 765 a LC Reservations (Linears - Trians Venetaring) Area to 2.2355590 Proc of 22.2355590 Proc of 22.2355590

Page 1 (6)

Address of Branch :

P.O. Bertal D. Keonther Green /58 0:15





See he From

Name & Address of Customer:

Tale Smel Ltd.(MGM)_Joda West

AtPo -Joda Diet - Kennihar Odska - 758034 India Per

TEST REPORT

Report No. : Date:

Sample No. |

Reference No. & Date

MSKGL/ED/2023-24/00/55/2

27/03/2024

AISKUL/FTX2023-2/42306492

3000166017/066, Date - 1 Monday

We haven't quirtly that the following armiple Circum by all fine beam analyzed with the following reserve.

2. Description of example	AIR
I. Unique Identification of secondalificant	Ambient Ar
Date of mempling	Jods Wast Icon & Air: Mores (JWMW)
Plans of Loroping	12/03/2026
Committee Committees during compilers & Transport	Magazi Grance Surrey Yang, 139(MM)
Sampling Pain & Melligo West	Chec it Sintry
The second secon	NA .

Report No. : MSKGL/ED/2003-24/005562

Sample No.: MSKGL/ED/2023-24/03/00492

RESULT

Si No.	Parameter	UOM			
t	Ammonio (Nii cir)	-	Method	Limit	Rosult
2	Catition Microsofts (CO)	micro gavina mgmas	(5.51 (Pan 25)	400 34 HR	12.5
3	Ntrogeo Dicolde (NO2)	militare	IS: 5182 (Part 10) (O)	2.8161	0.01
- 6	Oymer (O3)	micro-gin/m2	S: 5182 (Part 6) (0)	80 24 HR.	21.7
3	Particulate Matter (<16µm)	Microgrand	(5 firet (Pan 6)	180 THR:	HDL(DL-2006
0	Printendato Matter (<2.fam)	HISTO DIMINO	18: 5782 (Part 21) (D) 16: 9782 (PT-24) (2010 (D)	100 24 HR	184
1	Sulphur Dicoaso (SO2)	more provide		80 24 HR.	88
			15 \$182 (Pirt 2) (D)	00 24 RPC	6.6

END.

Report Verified By

For Mitra S. K. Private Limited

Doc No. WSKOGEN/1007







Building No. P. 48, Lidayan Industrial Extale. 8. Pegiadanga Road, Kolkata 7000Y5 West Bangal

Tal. 191 7044000120 Email: (dayantsh@mirask.com

Address of Laboratory



ULR: TE:895024000005020

Name & Address of Customer:

Tate Sheat Ltd.(MGM)_vode West

AtPo Jode, Dist. - Keorynar, October 758034 Innov.

TEST REPORT

Report No. :

Date :

Sample No.:

Date of receipt of sample:

Date(e) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKFL/ED/2023-24/91590X

22/03/2024

MSKNB/ED/2021-31/09/27108K

14/03/2024

14/03/2024 - 22/03/2024

Parmanuet Facility

3000196017/056, Date = 16/09/2025

Channent

We hereby carrry that the following sample Drawn by us has been enabled with the following remots.

1. Group 2. Description of sumpre 1. Unique Identification of sumple(if any)	Altrospheric testrinos Ambleis Air
4. Date of sampling 5. Place of sampling	NA 12/03/2024
. Envirolimental conditions during sampling & Transport	Nasr Time (OScs, (JMMM) 1) Tempyrature :19-30 ettg C 2) Berometric Pressure; 700 mm of Hg 3) Rain fall No.5 Cold Coam Mandamen
. Sampling Plan & Method used I Identification of the performing sampling by Mark I. Field Equipments Used	No. 5 Cold Coam Maintaines IS-5182(P-11 (2) 5 USEPA Dhembouther Dos Leim Nair
	MSK/BBL/HELD/RDS-2

Report No.: MSKFL/ED/2023-24/91590X

Sample No.: MRKNB/ED/2023-24/03/27108K

RESULT

31 No.	Paramidar	UOM.	Matter		-
1	Arsenic as (As)		Wethod	Limit	Result
2	Benzane	ng/m3	USEPAJO 2.4, Julio	G (Annual)	SDL(DLH,0
3	Eintro(a)Pyrena	micro gravas	IS 5182 (Part 11)	5 (Amugal)	
4		eq/m3	(S 5182 (Peri 12)	1 (Armuel)	BOLIDEAG
5	Lead (as Pb)	Emilino croimi	HISEPAND 3.4. June	(GI4 Prours)	SDL(GC d s
5 B	Mangarlese as Mr.	micro gm/m3	USEPAIO I vi June		0.04
	Nickel as Ni	ro/m3	LISEPA-IO 24, June	fiot Specified	0,06
pinion	Limit lid per CPC		Fills Abrando 2005 to Am	20 (Arnnual)	9.7

Limit as per CPGB notification, himse District Valle Alexandrice 2005; for Authority for quality

Statement of Conformity

END

Bully broad Do.

Designation

Authorizon Bigrowny.

East by charge

to the property of the proof water of a research to 15 days true fire that the manual on Test Report Periods and particular to examine 2 days

to provide relative management of the second Special Centre (St.) Ser.) 748 A.J.C. Bran. Retail, Number - 7159100 Virtual International Conference of St. 2015/2000 Centre of St. 2015/2000 Centre

Page | off

Address of Branch:

P.O. Barks Di Sonorray Onica (58 005





Street For Purpor

Name & Address of Customer:

Tota Steel Ltd (MGM) John West

APPo - Inda, Dial - Keonner, October - 7560 St. India Ma.

TEST REPORT

Ruport No.:

Date

Sample No.:

Reference No. & Date :

MSKUL/ED/2003-24/1905948

27/03/2024

MSKGL/EID/0023-24/05/00491

1000 (560) (7050, Date + 15/01/2003)

We have by carely must the following annuals Drawn by up that been analyzed with the following waters:

2. Description of exemple	AIR
3. Unique identification of sample of anyl	Arribent Air
h. Date of sampling	Addy West Iron & Mr. Alines (JWRM)
7, Place of compling	12/03/20174
. See the second	Assar Turnis Offices, p. roft News
Bernoling Plan & Method (seed	Clear & Secry
The series marriage (School)	NA .

Report No.: MSKGL/EDV2023/2AMY05548

Sample No.: MSKGL/ED/2023-24/09/01481

RESULT

SI Na	Parameter	Uok	Washing .	-	
1	Ammorta (MH3)	triber records	Method	(amit	Résult
2	Dartion Maracerdo (CO)	magragations /	S 5182 (Piii(25)	400 24 HR.	14.6
1	Nitrogen Dioxico (ND2)	Presignant)	ISS 5162 (Pan 10) (C)	2 min.	0.42
1	Ozoni (C())	micro grama	15: 5192 (Pan 6) (D)	80 24 HR.	21.7
1	Particulate Mattes (<100m)	micro grands	15:51 (Mark 9)	1002 t 1466.	BDUIDL:2000
6	Persoulate Matter (<2 6um)	Section (Imperio	(5:582 (Part 23) (D)	100 24 HR	209
7	Sulptur Diaxide (SB2)	micro carriero	(5 a (6) in 1 (24) 2 (178 (D))	99 24 HR	100
		E men Burne	(B) (J/R2 (Part 2) (O)	1024 HR.	7.5

- END --

Report Verified By

For Mitra 5, K. Private Limited

Mitra S. K. Private Limited Address of Laboratory :

DOCKO, MSKUCENHING!









Scan for Ports

ULR: TC-8950240000005345F

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Fload, Knikala 700015

Wimi Bengal

Tel +01 7044000120

Email udayanlab@mirast.com

Name & Address of Customer

Tate Steel LH (MGM)_Jode West

AliPo. - Joda Dist. - Keorgher, Odaha - 755694 India.

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/C18107

28/03/2024

MSKMIVED/7023-24/03/MARJOPC

21/03/2024

21/03/2024 - 28/03/2024

Permisent Facility

3000196017/056 Date - 15/080023

Chemical

We needly certify that the hallowing sample Drawn by ou has been analyzed with the following results

2 Description of Lampic	Astrophisme Politican
L. Unique Identification of sumplicit entit	Archient Air
. Date of ampling	NA .
5. Pincs of sampling	18/03/2024
Environmental conditions during sampling & Yrampor	Near Gergergude Pil (JAVIMI)()
Sempling Plan & Method ward	7) Temperature: 6-25 deg C 7) Berometin; Posseure: 713 rem of Hg 3) Rain 5: Ms & Chirl Chair, Maintenant
Identification of the enranged partners in	(\$.5182(P-11.12) & USERA
Field Equipments Used	Diambudhar Ces
	ASSCHBUFIELD/RDS-4

Report No.: MSKPL/Et/2025-24/03/0107

Sample No. : MSKNEJED/2023-24/03/MM30FC

RESULT

Chemical			RESULT		
5) No.	Parament	UOM	Bushe		
1	Acsenic as (Aa)	PO/M3	Method	Limit	Result
2	Benzone	The second secon	DSEPAJO 3.4, June	o (Annual)	BOLIDET (I)
3	Ennac(a)Pyrene	micro gra/m3	IS 5182 (Part 11)	5 (Armial)	BDL(DL.4.2)
4	Load (as Ptr)	ng/m3	IS 5182 (Part 12)	1 (Annual)	BOLIDUD 6
5	Manganase as Mn	Micro attivida	LEEPANG 3.4, sine	1 (24 Hours)	11.03
6	Nickel as Ni	Inicia grivin3	LISEPA IO 3.4 June	Not Specified	0.17
pining:		B notification, have Det	USEPAID 3.4 June	30 (Annual)	BOLIDE'S O

Limit as per CPCB notification. Assert Debt. Lots Workshiper 2008, for Ambient all Quality.

Statement of Confurmity NA.

END-

BANKWIE De

Signature

Parighteen .

SHOULDING STREET,

Adlitutorici Signatory

DMINING:

Life trunsign

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The Record and the Community for the Community for the permitted community for the Community

Black infollers with construction was a service of the con-

Page 1 mil

Address of Brench:

MO. Barby Di Keonihor Orisan 758 035





Name & Address of Customer :

Tinto Simil Lid (AIGM), Joda West

AufDri. - Jude, Dict. - Koonfluer, October - 756034 India Phi

TEST REPORT

Report No.

Only.

Sample No. 1

Reference No. & Date :

MSKSL/ED//D23-240EBG98

38/05/2024

MSKGL/E0/2023-24/03/00071

3000156017/056, Dose-15/00/2013)

We have by carrier that the following sample Drawn by as her been englyzed with the following results

Description of semale	AIR
Unique (destination of samplial) any)	Anthers Ay
Core of sampling	Josa Wed from & Mn. Mines (JWWM)
Place of saleging	18/03/2024
Continuous continuo dello empling i Transport	New Compagner (1) (2) (1994)
Sameong Plan & Mathod used	Chard Sanny
- STEP COURS BOTTOM TOWN LINES	NA .

Report No.: MSKILL/EDI2023-24/00550E

Sample No.; MSKGLED(2023-24/00/00/00)

RESULT

5150	Parameter	HOM			
4	Admiranta (MHG)		Mothod	Limit	Result
2	Carbon Moronida (DO)	micro grovest	IS-6102 (Part 25)	400 24 HIR	18.0
3	(uttraçum (Xenside (Naza))	ment Statute	(5: 5182 (Part 10) (Cr)	2 8HR	0.61
4	Ozone (O3)	THE GRAND	18: 5182 (Patt 6) (O)	24 HR.	30.5
3	Particular Metter (<10 am)	micro grannii	15 5182 (Part 9)	100 THR:	BDL/DL:sp.n
40	Planteublin Martin (42 Sum)	marro gravino.	le 5182 (Part 23) (O)	100 24 HR	107
7	Sulphus Dioxine (SO2)	micro-gravial)	(a) 61(0) (b) (c) (c) (c)	60 24 HR.	95
		The state of the s	(S: 5162 (Ref 2) (O)	110-24-HFQ.	8.7

HINE)

Fleport Verified By

Head Office:

For Mitra S. K. Private Limited







ULR: TC-605024000005544F

Address of Laboratory :

Building No. PLAS Lickyon Industrial Estate 3, Pagladange Road, Knikate 700015 West Bringist

Tel: +01 7944030120

Email: udeyanlab@mitrask.com

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

AtiPo. - Joda Ties. - Keonihar, Odisha - 758034 unio

TEST REPORT

Ruport No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24X1610M

28/03/2/024

MEKNEVED/JUZ V. 24/03/V/E314H.

21/03/2024

21/03/2024 - 28/03/2024

Parmaeuri Facini

3000196017/056, Date - 16/09/2023

Chemical

We benuly partry that the following sample Drewn by us has been analyzed with the following results

2. Disterbition of semple	Atturnohime Politico
Linique Identification of sample(If any)	Ambient Air
f. Date of sampling	NA.
Flacs of sampline	18/03/2024
5. Environmental conditions during sampling & Transport	Neer Railway Siding. ("WMM)
Sampling Plan & Mathied User	1) Temperature 15-25 deg C 2) Berometric Pressure: 713 mm of Hg 3) Rain fe NG 5 Cold Chain Manteines
Identification of the paragraph exclusion	(S:5182(P-11,12) & (ISEPA
Field Equipments Used	Offenbridhar Cos
	MSK/BBL/FRELD/RDS-3

Report No : MakeLED/2023 24/X1010M

Sample No.: MSKNB/ED/0023-24/03/VB314M

RESULT

51 No.	Paramour	LIOM	1 1000		
1	Arsenic as (Aa)		Method	Limit	Result
2	Benzene	ng/m3	USEPA IO 3.4, June	5 (Annual)	-
3		micro grains	IS 5182 (Fort 11)	5 (Amnuel)	BOLOLAD
4	Benzo(a)Pyrene	ng/m3	15 5162 (Part 10)	1 (Annual)	EDL(DL:4.2)
-	Lead (as Pb.)	Prices graves	1/5/EPA40 1.4, June		BDL(DL.0.6)
0	Manganese as Mn	micro gminis	LISEPA-IO 1 # June	1 (24 Hotas)	0.03
6	Nickey on Ni	ng/wS	LISEPANO 7.4, June	Not Specified	0.03
pinion	Lives he per CPO	Grootification: Aline Cells	Little stayannon 2003; für eine	20 (Annual)	7.4

Statement of Conformity. NA:

END

Reviewed By

Schiker

d away

leeignation

EVENUEYO CIVINIA

Alforred Signatory

is possible within any to the investige faceout.

1. They higher state not be recommend except by judy exclusive permission of March 2 M. Private Landon

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1. They higher state of the investigation of the contraction of the investigation of the investigation

It is against desire of the Pepper.

The property of the Pepper of the P Shorts Garder (Ath Paper) 74E, Ault Press Proc. — Intel Press Regulation (Ath Regulation) 20150017 Fee: 11 10 20160018 | English com Weeks — Intel Paper (Ath Regulation) (Ath Regulation) (Ath Regulation) (Ath Regulation)

Page 7 01 I

Address of Branch :

F.O. Bartal Dt Keonmar Quasa 758 (IDS)





Sent to Partie

Name & Address of Customer ;

Tabi Steel (W.(MGM), Jode Vener

At Po, - Joda Chiz - Kaongser Oceana - 758034 India Pin

TEST REPORT

Report No. :

Date:

Sample No. :

Reference No. & Date :

M3KGL/ED/2023-24/00holds

15/03/2024

MBKUL/ED/2023/2400/00800

3000156047/966, Dole + 15/06/2023

We hereby contify that the following earnped Dimen by its has been enalized with the infrarent resident

1, Group	Ail
Z. Discoption of sample	Arabiest Air
1. Unio = Identification of completificate)	Joda West Iron & Mrs Mines (PWDMI)
4. Dwte of sampling	18/03/2024
6. Perce of sampany	Neur Rolling String, (JANNA)
S. Environmental conditions during sampling & Transport	Clove & Survin
7 Durgling Plan I Blatterd used	Pus

Report No.: MSKGL/ED/2020-24/005505

Sample No.: MSKGLED/2023-24/03/00000

RESULT

SI.No.	Parameta-	UOM	Wethod	Limit	Result
1	Americania (MH3)	micro grahim	18-5182 (Part 2p)	400 24 HW.	-
7.	Derhan Manazide (DD)	malma	(E: 3192 (Part 10) (O)	2 008	14.7
3	Nthogen Diclade (NOS)	colore groma	15 5 (Rarra) (CI)	80 24 HR.	0.53
6	Ciznos (CR)	stiere grates	65.5182 (Part 9)		22.7
5	Puriounia Matter (s 190m)	micru gravic	(3 5188 (fad 29) (D)	140 1 HR.	BD110F38/8
5	Period ate Matrix (<2.5mm)	Interior product	8.6182 (PT-24),7019 (O)	300.24 HR:	247
7	Sulphur Dioxide (SC2)	Investigational	15: 5182 (Part 2), (D)	80 24 Fire	8.7

EMD -

Report Verified By

For Mitra S. K. Private Limited









Scan for Portal

ULR: TC-695024000005343F

Name & Address of Customer:

Teta Sami Ltd. (MGM) Joda West

Address of Laboratory

Wast Dengal Tel. : +91 /D44036120 Email: uguyeriab@mimest.com.

Duilding No. 11-45, Udwyert Industrial Estate 3. Pagladange Road, Kohalo 700016

AUPo - John Dist - Reorghar, Odisha - 758004 hide

TEST REPORT

Report No.:

Date !

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date I

Discipline:

MSKPL/ED/2023-24/01610B

28/03/2024

MSKNEVED/2029-24/03/MX3134

11/03/2024

21/03/2024 28/03/2024

Permanent Facility

3000156017/085, Date - 16/09/2023

Chemics

We hereby certify that the following sample Drawn by as has been analysied with the referency results.

1. Group	
2. Description of sample	Almonthur Palular
3. Unique Mertification of sensole(If any)	Ambient Air
4. Date of earnpling	NA NA
	18/03/2024
5. Place of surryling	Near H-Quarry Rest Shellar (JWIMN)
i. Environmental conditions during sampling & Transport	17 Temperature 16-25 deg (19) Barronninis Destroya, 249
7. Sampling Plan & Method used	Take to provide the provided of the provided o
	18-5162(2-1) (7) & USEPA
Identification of the personner performing sampling by MSK Field Equipments Used	Dhambrudhar Das
- Court administrate natur	MSAUBBL/FIELD/RDS-1

Report No. . WSNPDELW2023-24/C16108

Sample No.: MSKNB/ED/2023-24/03/MX3104

RESULT

51 No.	Parameter	UOM	Method	Limit	Result
1	Attentic as (As)	rig/iri3	USEPA-IO 3.4, June	5 (Annual)	
2	Banzane	tricus govierd	S 5182 (Part 11)		BOU(DL1.0)
3	Benzo(u)Pyrene	Emilen	IS 5182 (Part 12)	5 (Annual)	BDL(DC42
4	Lead (as Po)	telens grains	LIERPA IO S.4. June	1 (Artonial)	BDL(DL:0.5
5	Manganese as Mn	midte grown3	USEPA-IO 3.4 line	T (24 Hours)	0,02
6-	Nibibilas MI	mg/m3		Not Specified	0.26
pinion:		the state of the s	USEPA-IO Z4 Julini L fatt revenities 2006 for Ang	20 (Anmani)	13.9

Statement of Conformity

END.

Tigration.

Davigrami.

Emanya Chamai

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Share Cares (An Poor Titl A.J.C. Bros Rest, No. - Natiff, West Barger Title 10 JB 401480007 Feb. 91 D 2290000 - PROSTURES HAVE VENTAGE BOWN HARM



P.O. Bartil Dt Koonhor Orison 768 028

Time Saud Lts (MCM), Jodin Virmi





TEST REPORT

Name & Address of Customer: Report No :

M8KGL/ED/2023-24/005578

Date :

28/09/2019

Sample No. : Al/Pn. - Josta, Del. - Keonitair, Odeha - 758034 Initia Pin

MBKGL/ED/2023-24/03/00709

Reference No. & Date :

3060155017/058, Owis - 15/09/2023

We fleveloy certify that the following sample Drawn by us has been embyzed with the following results:

1. Group	AIR
I. Description of earnels	Ampient Air
Unique himoffication of sampholf may	Joda Vergalinit & int. Asses (JAVANI)
d. Data of compling	18/09/2024
5. Place of sampling	Near H-Quarry Root Shadon (JAVIMM)
Emintermental consistent during aumpling & Transport	Cher & Sunny
7. Sampling Plan & Method sped	nsa.

Report No. MSKGLED/2023-94/005570

Sample No.: MSKGLED(2023-24/00/00/99

RESULT

analysis i	nalysis Result of Ambient Air							
SI.No.	Dienmuter	MOM	Method	Limit	Result			
1	(Armonia (AA)3)	mini gend	13 5 (82 (F = (25)	400 24 HR.	15.2			
2	Carbon Monuede (CO)	mgmd	15: 0 162 (Part 10) (CI)	2 BHR	test			
1	Helmour Disside (NO2)	Driving main	78 S182 (Part 0) (0)	80-24-148	- 28 e			
4	Cense (Cit)	mins grand	VS-9185 (Part V)	180 1 HR.	BOL(DL-20.0)			
1	Particulate Malter (<104m)	mining griding	(6): NAME (Plant (FD), (CI)	100:34 HR.	291			
5	Particulate Matter (<2.6om)	Thirm proving	15 A 982 (FE-24), 20 (B. (2))	60 94 HR	97			
T	Salphur Disxide (SO2)	micin ge/m3	13 5182 (Pail 25 (D)	80 34 HR.	6.0			

END

Report Verified By

For Mitra S. K. Private Limited

- 3911-Authorised Signatory

Doc No.: MSKICKENTENET





Buyding No. P. JE. Udeyer Industrial Estate, 3, Pagledangs Road, Kalena 700018 West Bergel Tel. +91 7044038120 Email udayardab@milirask.com





Scan for Plynai

ULR: TC-665024000006342F

Name & Address of Customer =

Tata Steel Ltd.(MGM) Joda West

At/Pix Jode, 5kill - Restrictor, Dollatta - 750/34 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/11/E1/07

28/03/2024

MSKNBED2023-2400/M00110

21/03/2024

21/03/2024 - 28/03/2024

Permanent Facility

3000158017/09B Date - 18/09/2023

Chemica

We hareby carsily that the following sample Drawn by us true been analyzed with the following results:

1. Group	Atmoson de Pallatier
2. Description of sample	Ambient Air
J. Vneque (dentification of sample(if any)	NA.
Cate of aumpfrig	18/03/2024
L. Plans of sampling	Naiir D-Oughy Scien j./MMMI
5. Environmental conditions during sampling & Transport	1) Terracoluse: 17-95 day C 2) Barometric Pressure: 713 mm of Hir 5) Bain for
. Sampling Plan & Method used	No & Cold Dhain Methypet IS:B180(F-11,12) & USEFA
it intentification of the personnel performing sampling by MSK	Ohamtatedher Des
9. Floid Equipments Used	MEKRIBILFIELDREISH

Report No.: MSRPL/ED/2023-24/118107

Sample No.: MSKNB/ED/2023-24/03/M03110

RESULT

Ohomical						
Parameter	UOM	Mathas	Limit	Result		
Araenic as (Att	Einlign	USEPA-IO 3.4, June	5 (Annual)	50L(D): 1-0)		
Benzene	micht gra/m3	US 8192 (Part #1)		BD (D) # 2)		
Beazo(#)Pyrene	En/glt:	15 5192 (Find 13)		BDL(DL:0.5)		
Lead (ns.Pb.)	Exiting dyslini	USEPA IO 3.4, Juine		BOLOZ (0:01)		
Manganese as Mn	micro gm/m3	USEPA-VO 3.4: June		0.17		
Noted as Ni	ng/mS	USEPA-IC 34, June		30L(0L(5.0)		
	Arsenic as (As) Benzene Benzo(a)Pyrene Lead (as Pb.) Manganese as Ma	Arsenc as (As) ng/m3 Benzene micro gm/m3 Benzo(a)Pyrene ng/m3 Lead (as Pb.) micro gm/m3 Manganese as (An micro gm/m3	Arsenic as (As) 19/4/3 LISEDA-JO 3_4, June Benzene micro graini3 LS 5182 (Part 11) Benzene inghri3 LS 5182 (Part 11) Lead (as Pb.) intere grated USEDA-FO 3_4, June Manganese as Ma micro grated USEDA-FO 3_4; June	Arsenc as (As) ng/m3 LISEPA-IC 3.4, June 5 (Annual) Benzene micro gra(m3 LS 5182 (Part 11) 5 (Annual) Benzo(s)Pyrene sig/m3 IS 5182 (Part 12) 1 (Annual) Lead (as Pb.) risero grato3 USEPA +O 3.4, June 1 (24 Hours) Manganese as Mn micro gra/m3 USEPA-VO 3.4; June Not Specified		

if any year CPCB maillionten, New Calife, 1986 November 100s, for millions an manage

Statement of Conformity

END

Personnia dy

Mr. Pat Gerger

Designation

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Signature.

Geografian

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P.O. Bartal DI Keepitor Orico, 758 035





Name & Address of Customer:

Tally Stend Ltd (MGM) Josta West

AVPo. - Joda, Dat. - Keonfole, Odisha - 756034 milli imi

TEST REPORT

Report No. :

MSKGL/ED/2023-24/W8577 Date: 28/25/2004

Sample No. :

MSKGL/ED/2020-24/03/00798

Reference No. & Date :

3900159017/056, Date - 10/0902023

We hereby cently that the following sample Driven by us has been analyzed with the following results:

1. Group	AR
2. Description of sample	Antique Air
3. Unique identification of sample(if any)	JA(dil West from & Mrs. Mines (JWIMM)
2. Date of surreing	18/05/2024
2. Place of camping	Near D-Church School (JWMM)
6. Environmental conditions during executing 6 Transport	Chará Same
7. Sempling Pury & Matheid upon	NA

Report No.: MSKGL/ED/2023-24/000577

Sample No.: MSKGL/ED/2023-24/C0/00/298

RESULT

nalysis Result of Ambient Air							
SiNo.	Parameter	UCM	Meuros	Limit	Result		
1	Ammooin (NHS)	micre grand	(8 5182 (Mut 25)	400 24 HR.	12.4		
2	Carbon Manusalin (CO)	Etrigen	(S. 1152 (Plat 10) (D)	2 888	0,53		
3	Nitrigue Deservi (NG2)	-tniano grainati-	IS STEE (PHILD)_(O)	80 24 HR.	21		
A	Ozono (03)	Imimo gminia)	005182 (Pnd 9)	380 1 080	BDL(DL-20.0)		
- 17	Particulate Mutter (< Com)	omiena privida	(5 6/82 (Pair 93) (O)	100 34 HVL	784		
.0	Parka sale Mitter (< I fami)	muces govern	S SUMPET 24,1010 (0)	90.24 (66	207		
Total	Suphir Dixede (S02)	country orders	(B: 5182 (Pan 2) (O)	90:24 HR	7.0		

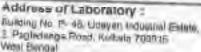
EMD

Report Verified By

For Mitra S. K. Private Limited

DOUBL. NOVOSHITADI





West Elengal Tel: +61 7044036120 Email udayar fabiganilmask com







Scan for Portal

IILR: TC-895024000006341F

Name & Address of Customer:

Tells Steel Ltd (MGM) Joda West

ADPo - Inde Dist - Keonjaar Odiste - 750034 mile

TEST REPORT

Report No. : Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date

Discipline:

MSKPL/ED/2023-24/K16108

78/03/2024

MSKNE/EDI2023+24/93/433497

21/03/3024

21/03/2024 - 28/03/2024

Partitioned Facility

3000158017/056, Dwin | 16/09/2075

Chemian

We hereby certify that the following asimple Drawn by us have been unaresed with the tolograp remiss.

Group	Attemphene Padulier
2 Description of sample	Anthiest Air
3. Unique Maniffication of sample(if any)	NA.
Date of sampling	
Place of sumpling	18/03/2024
. Environmental conditions during sampling & forespon	Near D-Quarry Sorting Yard: UWMMI) 1) Temperature: 17-26 sleg C 2) Barometric Pressure: 713 mm of Hg 5) Rain is
Sampling Plan & Method User	
Mustification of the personnel performing eampling by MSK	(8:5182(P-1112) & USEPA
Field Equipments Used	Dhamonathar Das
The state of the s	MISK/BBLIFIELD/RDS-6

Report No. : MSKPL/ED/2023-24/K16108

Sample No.: MSKNB/ED/2023-24/09/63312Z

RESULT

SI No.	Parameter	UOM	Method	116.1	
1	Arsenic as (As)	ng/m3		Limit	Result
2	Benzene		USEPA-10 3.4, June	g (vounte)	BOL(0).:1.8
3	Berizo(a)Pyrene	Emissio distilli	15:5182 (Part 15)	5 (Poyuel)	BDCDLAS
4	Leed (as Pb)	ng/m3	(5.5182 (Part 11)) (Amuss)	SDL(DL/0.5)
6		micro amang	USEPA-IO 3.4, June	1 (24 Hours)	0,02
ō	Manganesn as Mri	micro gm/m2	DGEPA-IO.4.4 June	Not Specified	0.27
platea:	Nickel as Ni	ng/m3	USEPA-IO 3.4, Ame	30 (America)	BDL(DL-5.0)

Statement of Conformity

END -

Dereitage

designation Electric Charter Autoras Signary

Signature

Chesponies

The results from the first producted several many at the sections of Micro E.K. Process Lineary
This Test Report shall for the report of the sections of Micro E.K. Process Lineary
This Test Report shall be reported by the section of the section o

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Address of Branch :

F.O. Barni Dr Wooningr Orissa 158 035





Stat for Percei

Name & Address of Customer:

Tarbs Street Lbt (WCAft_Jocia West

AnPro. - Joda Chie. Wedgiter, Oxfisha - 758634 India Pin

TEST REPORT

Report No.: Date :

Sample No.:

Reference No. & Date :

M8KG2_ED/2023-24/005854

28/03/2024

MSKGL/EDG023-24/02/00707

3000168017/066, (1Me - 16/G6002)

We hardly contry that me following sample Drewn by no has been wealyzed with the following results:

1. Group 3. Description of saraple	AH
2. Unique Mantifension of sample(if say)	Airtxent Air
4. Data of sampling	Jodn West ton & tals. Mines (JWMM)
S. Price of sampling	10/03/2624
Engine mercal conditions during company & Tempera	Nation Co-Channey Seatting Years, garrenterly
7, Compling Plan & Malford sense	Geau Suny
Committing than 4 Welliand trees	TIES.

Report No.: MSKGL/ED/2023-24/006594

Sample No.: MSKGL/ED/2003-24/03/09797

RESULT

SINO	Parameter	LIOM-	Method	0.00	1
-1-	Ammonia (MHS)	mkno-gewina		Limit	Result
2	Carbon Microsode (CO)	The second second	IS 518: (Part 25)	400 24 HR	123
X 1	(Arrupa) Disson (NO2)	- mpini3	(5) 5102 (Part 10) (D)	2 時限	0.54
4	Ogone (C3)	HINNEY SAMUEL	its allow (Part of (D)	80 24 KH.	18.9
-		mitte um/m2	75 919Z (Part 9)	160 1 HR.	
-	Particulate Metter (<10um)	mican graleid	(5) 51(\$2 (Purt 23) (C))	100.24 149	BULIDI ZUS
11	Periodian (Anter (<5.5tm)	micho-gravito	# \$160 (PY-(4),2019 (IV)		167
7	Sulphur Diexide (SO2)	migra greend		60 24 MR	81
		T meet grants	IS:51(G (Par) 2)_(D)	60 24 MSL	6.0

END-

Report Verified By

Hose Officer



For Mitra S, K, Private Limited

Decition, MEXICODINATIVE









Soun for Portal

ULR: TIC 696024000006340

Name & Address of Customer:

Tate Sizel Lift (MGW)_Joce Was

Address of Laboratory :

Email odnyanials@marask.com

West Bengal Tel: +91 7044038120

Building No. P. 45, Ullayer Industrial Estate. 3 Pagladangs Road, Kelkata 700016

AbPo - Jeds Dist - Keongray, Odaha - 700034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Disciplina:

MSKPL/ED/2023-24/016100

211/03/2024

MSKNB/ED/2023-34/09/79/999C

21/03/2024

21/03/2024 2//03/2024

Demonent Faculty

3030156017/056, Date - HM3/2023

Chemical

We harmby centify that the following sample Drawn to us have been accepted with the potentialy results:

1. Group	Amaghera Paloton
2/ Description of sample	Ambient Air
), Unique (dentification of exempte(if any)	NA NA
t. Date of partipling	
5. Place of numbing	18/03/2024
. Environmental complitions during sampling & Transpare	Near Time Office, (JWMM) 7) Tempurative 15-25 deg C 2) Barconetric Pressure: 713 mm of Hg 3) Rain fait
Sampling Plan & Method used	
. Idonification of the pursuance performing sampling by MSK	18:51(2(P-1),12) & USEPA
. Field Equipments Used	Dhambrochar Day
And a company of the	MSK/BSILFIELD/RDS-2

Report No. : #ISAPL/EDZ023-24/016100

Sample No.: MSKNB/ED/2023-24/03/DJ3100

RESULT

Chamical					
SI No.	Parameter	MON	Method	Limit	
1	Arsenic as (As)	ng/m3	USERA IO S.A. June		Result
(2)	Benzene	mycra gmmS		o (Annual)	BOL(DL-10
3	Benzoja)Pyrene		IS 5162 (Par 11)	5 (Annual)	BDL(DL42
4	Land (as Pb.)	hg/m3:	15 5182 (Phrt 12)	1 (Armusl)	BCL(DL:0.5)
7		minto gravinS	UdEPA-IC J.A. Jime	1 (24 Hours)	0.07
0	Mangarese as Mil	Inlate grains	USEPA-(C 3 = June	Not Specified	0.37
pinion;	Nickel at Ni	rigins	USEPA-IO 3.4, June	20 (Annual)	BOL(DL:80)

Limit as one CDCIII analyzation, New Dears, total Howeverter 2009, for Ambient Sti quality

Statement of Conformity NUA

END -

Parmin

Owurston Ewolini Ownia Authorised Signal

Late in oftense

The require state only to the famous region.
The Test Rejust shall not he made disselvants are in personal of the 2 m. Private Landay.
The new ordinarial personal for the control of the control of the control of the 15 they from the state of these Rejust. Plantage and the number of the Control of the Cont

The community programment of the community of the found is a facility of the first programment of the facility of the facility

Street Course (Se Flori) (40, e.2.0, from these man marks (190010) Mod from the first of the 40143001 (7465000) For \$1.00 25500000 (190010) Mod from the first of the first of

Page + of 1

Address of Granch Disse 758 ILLS





Name & Address of Customer

Two Steel Catchillian), Jode West

ANPO - Justa, Dist. - Keonibor Odeano - 748004 Senso Pa-

TEST REPORT

Report No. :

MSKGL/ED/2020-24/005880

Date =

28/09/2024

Sample No. :

PADROPHED STATES OF THE PARTY O

Roferenco No. & Date :

3000150017/056; Unite 1/VIX/2023

We havely worth that the makeurs switch than by its has been analyzed with the

1. Gescription of samulti-	AR
Unique Interespection of exemple(of arry)	Aggreent Ar
Date of Sampling	Joca West Iron is Inn. Nimas (JWMM)
Place of sampany	18030000
Etwinsonantal especialisms during	Near Time Cilities, LEMIMMI
Environmental consistent during servicing & Liversport Sempony Plan & Method liver	Clear & Sanny
Tannamilia selli di mullipo liberi	NAC .

Report No.: MSKGL/ED/2023-24/005693

Sample No.: MSKGL/ED/2823-2403/00/96

RESULT

81 Na.	Parameter	DOM	Method	1	-
1	Ammonia (MECS)	micro gmimi)		Limit	Resott
2	Carpun Moncorde (CO)		40 Stree (Partity)	400 24 HR.	10.3
1		ringina	S: 5165 (Feet 10), (D)	2.8HR	0.54
-	Nitrogan Diconte (NO2)	tricro genini3	18: 1182 (Part III), (D)	80.24 HIR,	
1	Озине (ОЗ)	THOUGHT	(6 3163 (Part 9)		19.5
5	Particulate Martin («10 mm)	micro granta		780 THE	BDL(DL20.0)
6	Parkentale Mount (42 Sum)		fit: Still2 (Part 20) (0)	100 24 HR	200
1	Sulphui Digaste (SC2)	Caving promi	S 5182 (FT-24) 2015 (O)	80.24 HR	142
	codum Instage (BCS)	andrugiming.	(B: 5782 (Part 2) (CQ	8634 Heli	7.8

END -

Report Verified By

Head Office.



For Mitra S. K. Private Limited

Dec No. Milliorativa lists





Suilding No. P. 46. Udayan industrial Estate. 3, Pagisdanga Road, Kollinia 700016. Wesi Bangai THL: +91 7044036120 Email udayanlab@mitmak.com





Scin for Portal

ULR: TG-595024900005301F

Name & Address of Customer ;

Tuta Steel Ltd (MGM)_J003 West

AUPo. - Jodá Diss. - Kaonjhar, Oslaha - 756634 India

TEST REPORT

Report No. :

Date .

Sample No. 7

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipilne:

MSICPL/ED/7023-24/A1610N

28/03/2024

MSKNØ/ED/2023-24/03/JM349/D

21/03/2024

21/03/2024 - 28/03/2024

Demanant Facility

3000156017/056; Dalu - 16/06/2025

Chemical

We havely certify that the following sample Drawn by us has been anxioned with the tollowing examp.

1. Group	Atmospheric Politiken
2. Description of sample	Ambient Air
Unique identification of sample(II any)	NA NA
(Data of earnpling	19/03/2024
5. Ptace of sampling	Near Carpainada PR (JANMM)
Environmental conditions during sampling & Transport	1) Temperature 14-22 ring C 2) Barometric Pressure: 708 mm of Hg 3) Ram tal
Sampling Plan & Method used	- Para Sa Propinsi Anna Maria Maria
Monthlycotion of the reservoir	(S-5)1D(P-11-12) 8 USEPA
Manufication of the personnel performing sampling by MSK. Field Equipments Dend	Pretit Kr. Mattri
- a - Administration Count	MSVBBLFIELDROS4

Report No. : MON-DED/2023-240/1610N

Sample No.: MSKNBJETV2023-24/03/LBr019/3

RESULT

BING.	Parameter	UOM	Method	No. 16	1
4	Arsenic as (As)	dul-2		Limit	Result
2	Britzene	nama	LISEPA-IO 3 4, June	6 (Annual)	BILL(DL/1.0)
3		Emitto otalm	IS 5182 (Part 11)	5 (Armunit)	BDL(DL 4.2
1	Banzo(a)Pyrone	10/11/3	IS 5182 (Pert 12)	V (Annual)	BOLIDL:05
-	Lead (as Pb)	Initian ground	USEPA-10-3-4, June	(24 rigurs)	
5	Manganese as Mn	Entering product	USEPA-10 5.4 June	Net Specified	0.04
5	Mickel as Ni	ngm3	USEPA IO 3 4, June		0,37
pinion:	Limit us per CRC	O nother than the same	is fills resummer good, sa mile	20 (Annual)	6.3

Limit as per CRCB confication, New Callet, Hith renumber 2009, 64 embers as guestly

Statement of Conformity

END.

Season by

Designation

Electrical Charton

Althorised Signation

Discrepancy will be used to the party of the

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Direct Colon (M. Foor), 768, A J C Book Share Rosens - Tubirti Medi Rosens - Na 10 direct (2803000 Fair 0) 53 22700008 Texas relationaries with Visital and Control Co.

Page 1 W1

Address of Branch:

P.O. Barbil Di Konsiber Onisso 798 ngs





Name & Address of Customer

Tole Shar Ltd.(MCM), Judy West

A4Py. Jaide, Dist. - Keorghar, Odbins - 758034 Jaina Pin

TEST REPORT

Report No :

Dista !

Sample No.:

Reference No. & Date :

MSKGL/EDV2023-24/005692

20/03/2024

MSKGL/ED/2023/24/03/00607

3000756017/056, Daw - 15/09/2023

We havely cartify that the following semple Drewn by us to

1, Group	AIR
2, Dissortpaga at semale	Amount Air
2. Delque igentification of semperil any:	Jook West from & Mr. Maren (JWMM)
4. Data al sumpling	19/03/2024
5. Place of sampling	Num Gungergusto Pro piversono
E. Emilronmental consillent Almon Lambdog & Trianquet	Com 6 Saun)
I Sampling Place & Matheus used	NA .

Report No. MSKGL/ED/2023-24/000592

Sample No.: MSKGL/ED/2023-24/03/00807

RESULT

SI No.	Paramutar	EXCIM	Method	Limit	Result
7	Ammonia (NH2)	-more grains)	(8:5)62 (Part 25)	909-24 HR.	
2	Setten Manade (CO)	mg/m3	≤ €102 (Part 10) (Q)	2 BIR	13.0
0	Mitroyan Direkta (ND2)	criero gravita	(B) 51((2 (Part 9) (O))	80 24 HR.	19.7
4	Omne (09)	mere graled	SE TREE (Part W)	700 CHR.	
B	Particulate Matter (< 10cm)	mem gm/mi	IS: 5182 (Puri 23) (D)	100 24 648	BDL(DL:20.0
6	Particulate Moder (<2 Sum)	Transportation 1	13.540= (*1-24),2019 (0)	60 24 HR.	192
1	Sulphur Dioxide (S02)	misso genmi	HS: 5182 (PWI 2) (O)	80 24 MR.	87

END -

Report Verdied By/

For Mitra S. K. Private Limited

Authorised Signatory

Head Diffice: Chronic Cords (Oh Then 1947, A.J.C. Stee Street, Kolouts - 79001). West Brough India.
Tel. (1872) 431-ASS (Indiana Proposition of the Education Steel Street, Cords Holland Ways - Street, Cord

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate. Poglariange Flowd, Rullace 700015
 West Bertgal Tel: +91 7044036120 Email uitayan obigimittaak com-







DOC NO. MSKGEWILLDY

TESTING WINDRESTION

Semi /dr Portal

ULR: TC-695024000005350F

Name & Address of Customer:

Tala Steel Ltd (MGN)_Joon West

AbPo. Jude, Dist. - Receptor, Ociona - 758034 moz

TEST REPORT

Report No. :

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/G18182

28/03/2004

MEKNE/ED/2023-24/03/SC317K

21/03/2024

21/03/2024 28/83/2024

Permanust Facility

3000 (96017/056; Date | 16/09/2023

Chemicai

We hareby cently the the tolowing sample Drawn by us has been annoved with the Encounty quality.

1. Group	Atmospheric Politipos		
2. Description of sample	Ambign(Air		
3. Unique Renthication of sample(I) any)	NA NA		
. Date of sampling	18/03/2024		
Place of sampling	Near Paliking Siding (JWMM)		
). Environmental contillions during sampling & Transport	1) Temperature 14-25 deg E. 2) Barometric Pressure: 706 mm of Hg 3) Rgin		
Sempling Plan & Motirod used	No A Colf Chair Meinblined III 5180/P-11, (2) & LISEPA		
b. Identification of the personnel performing sampling by MSK	Pratik Kr. Mantri		
9. Field Equipments Used	WSK/BBL/FIELLINGS-5		

Report No.: NE/PL/ED/2022-24/G16102

Sample No.: MSKNB/ED/2023-24/03/SC317K

RESULT

Chemical					
SI No.	Parameter	UOM	Melned	Limit	Result
1	Americ as (As)	ng/m3	LISEPA-IO 3.4, June	6 (Annual)	B0L(DL:1-0)
2	Benzena.	micro gro/m3	IS 5182 (Part 11)	5 (Annual)	BDL/DL-4.2)
3	Benzo(a)Pyrene	Emige	IS 5182 (Part 12)	1 (Annual)	BDL(DL-0.5)
4	Lead (as: Pb)	meto gmim3	USERA45 3.4, June	1 (047)pera)	9.95
5	Manganese se Mh	micro gmm3	USSPA-IO 3:4: Jane	Not Specified	0.52
fi .	Mickel as Ni	rig/m3	USEDA-10 3.4, June	20 (Annual)	36.9

Opinion |

Cantl as per COCR coffication, Meet Duils, 18th Nevember 2005, on Ambiens at yearny

Statement of Conformity

END -

Direction and the

Dinsignation

Deputies Chieses

Authorized Gisnator

STREET

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The fire state of the first first for the first first for the first first first first for the first fi

Howel Office.

The Towns (1977 Sen) TAD, A.C. Same Road, Normal TOXAND NAME Bridge, India.

Tel: 81 30 40145000 (2285000 Fee: 21.33.2290029)

Tel: 81 30 40145000 (2285000 Fee: 21.33.2290029)

Address of Branch :

P.O. Barbil Di Knombar Orisso, YSa (196)





Scan for Purpo

Name & Address of Customer :

Tata Start Let (AVIA) Joda West

AiPm - Joda, Dist - Keonijiur, Odesta - 758034 India Pin

TEST REPORT

Report No.:

Ditte

Sample No. :

Reference No. & Date :

ZANOVZUZ4 MSKQUEO/2023-2N/01/00806

MSKGL/ED/2023-24/00/991

1000151017(R6), Date - 15/08/2023

We hereby antify that the following sample Drawn by on has been analyzed with the following resour-

1. Group	Alik
1. Description of sympte	Antien Ar
2. Unique Identification of sampled env)	Joda Wani Son & Mr. Massis (1996M)
4. Date of sampling	
5. Place of sampling	1903/2014
n. Environmental continues during empling & Transport	Naar Paliway Salay, Jankowi
7. Sampling Plan & Mailined anna	Clour & Starry
A STATE OF THE PARTY OF THE PAR	NOT

Report No.: MSKGL/ED/0023-24/006591

Sample No.: MSKGL/ED/2023-24/53/00906

RESULT

Bi No.	Paramaian	Uòm	Method	Limit	
1	Ammonia (HH3)	misso gining	18:3162 (Pari 25)	-	Result
2	Carter Memorido (CO)	maino		400 24 HR.	13,3
3	Althogen Closina (NC2)		12 51(2) Pet 10) (D)	2 8960	0.50
4	Channe (CO)	micro grown	to: 61821Pow 61 (D)	80 24 HR	20.8
A .	The second of th	micro ppusa.	TS STEE (Fair B)	160 (18)	BDL(IIIL 20.0
3	Paratalia e Matter (<10 um)	Emirry units	18: 5162 (Part 23) 50)	100 24 666	7 221
0	Particulate Matter (<2.5om)	Cowing intole	IB Brits (PT 24,5000 (D)	341 M2 06	
7.	Sulpinor Dinante (\$02)	miero gerifica	15: 5182 (Part 17) (G)	80 24 HPL	6.3

-- END ---

Report Verified By (

Head Office:



For Mitra S. K. Private Limited





Building No. P. 98 Litayer Industrial Estate 3. Pagladange Froed #olicate 7000/15 West Bengal Tel: +91 7844036120 East uday wisbiffind not com-







Scan for Portal

ULR: TC-695024000005349E

Name & Address of Customer:

Tata Steel List [MGM]_Joda West

ALPo. Jeda, Dbl. - Reorgner, Octobe - 758059 (otto

TEST REPORT

Report No. :

Date:

Sample No. 1

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

M3KPL/ED/2021-24/C1610D

35/03/2024

MSKNB/ED/2021-24/03/LB3165

21/03/2024

24/03/2024 - 28/03/2024

Perminent Facility

3000156017/056, Data - 18/09/2023

Cinemical.

We hereby certify that the following sautole Drawn by us has been appropriat with the following sounds:

1. Group	Atmospheric Politaties
2. Description of sample	Ambient Air
3. Unique (dienungation of sample)(1 any)	NA NA
4. Date of sampling	19/03/2024
N. Place of excepting	Near H-Custry Rest Shaker (JAVIMM)
Environmental conditions during sampling & Immediate	1) Temperature : 14-22 dog C 2) Becometric Pressure: 705 mm of He 3) Bails and
, Sampling Plan & Method used	No. 8 Cost Chain Maintained (S-518201-11/12) # LISEPA
. Identification of the personner performing sempling by MSK	Prutik Kr. Mauri
Field Equipments Used	MSK/BBL/FIE_D/RDS

Report No.: NSAPLED/2023-24/C1610D

Sample No.: MSKNB/ED/2023-24/03/LB316S

RESULT

Phemical					
SINO.	Paramoter	UQM	Method	Limit	Result
1	Americ se (As)	ng/m2	USEPAJO 34 Jane	5 (Acouel)	
2	Benzene	micro.pm/m3	(S 5182 (Purt 11)	5 (Annual)	90L(DL1,0)
3	Henzo(a)Pyrene	Emign	IS 5182 (Part 12)	1 (Annual)	BOL(OL(4.3)
4	Lead (as Ph.)	miero gmini3	UDEPA IO S.A. June	1 GA House	BOL(DL-0.5)
5	Мапрапава ав Мл	Emirro anima	USEPA IO 14: June	Not Specified	0.02
8	Nickel as N	ha/m3	USEPAID 24, June		0.37
Southern -	I local our name trade.		TO THE WAY, MARKET	20 (Addual)	HOL(DL:5.0)

Opinion:

Limit as one CSCH numberation, New Dwist, 18th November 2005, for Personne or quality

Statement of Confermity NA

END -

Devision By

Ms. PM Garguy

Desputus Encurse Chemis Authorized Signatory

Lan Fronze

The Test Ribert shall get be desired from the permission of Miner C.S. France I money.

The Test Ribert shall get be approximated in full services for permission of Miner C.S. France I money.

The quarter of shall be desired from the Control of Miner C.S. France I money.

The quarter of the date of Section Brown and the Control of Miner C.S. France I money.

The class of the Comment of the Property of the Comment of the Com

Treats Convo (64) (see, 745, A.J.C. Shee Boat Austral (700) C even burger ave. Tel: 81.33 (444,000) (200000) Fee: 91.30 (200000) En: 4 (44,000) cont (44,000) (444,000)

Page Lot1

Doy No. MINCHESTRATIVE









Scan fer Pretai

LILR: TC-695024000005348F

Name & Address of Customer:

Tata Stirei Lis (MGM) Joon Weal

Address of Laboratory :

West Bengal 16 +91 7044035120 Emnir valayenists@elitrash.com/

Building No. P. 42. Udayan Mounthal Estata. 3. Paglednega Road, Korsala 700015

AVPn - Jode Dist - Keonyser Ocohe - 738034 Ingia

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023 24/916108

28/03/2024

MSKN6/ED/2023-24/M/Jest A2

21/03/2024

21/09/06/24 - 28/03/2024

Permanunt Facility

3000 (56017/065, Date - 16/09/2022)

Chemical

We hereby cartify that the following sample Orawa by us has been analyzed with the recovery remove

1. Group	
2. Description of sample	Althougheria Perlation
Unique (dentification of sample(II) any)	Ambient Air
Date of sampling	NA .
Place of engaling	19/03/2024
	Near D-Coar v-Screen (JVV/MW)
Emstronnuntal conditions during sampling & Transport	1) Temperature 14-22 day C 2) Buromatric Pressure. 708 mm of Hg 3) Ram fall
Sempling Plan & Method cond	No. & Cold Chain Marca cond
Manufacture of which the country	15:5182(F-11,12) & USEOA
identification of the personner performing sampling by MSK	Pralik Kr. Mentri
Field Equipments Used	MSK/BBL/FIELD/RDS-8

Report No.: WSKPL/ED/2023-24/916108

Sample No.: MSKNB/ED/2023-24/03/JBD1AZ

RESULT

Chemical			1100001		
SINO	Parameter	Lion	Method	Limit	
1	Amenic as (As)	ng/m3	USEPA-10 2.4. Jone		Hesuti
2	Benzane	micro graina		G (Annual)	BDL(DL:10)
3	Bérgo(a)Pyrena	ingim3	15 5182 (Part 11)	d (Acunit))	HDL(DL4.2)
4	Lead (as Pb.)		IS 5182 (Fad 12)	1 (Arnost)	BOL(DL:0:8)
5	Margansse as Mn	milmo greens	USEPA-IS SA, June	1 (24 Hours)	0.03
A	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE	Enlung ordini	1/8EPA-10 5.4: June	Not Specified	0.26
pinion	Nickel as Ni	Emign State	USEPA-ID 3.4, June	20 (Armun))	7.8

Limit as our CPGB notingstoon, New Delnie, 16th November 2009, for Ambient on qualify.

Statement of Conformity

END -

Distributed by

Designation

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ENGLIS CHICK

Authorized Streetly

Services on

Lab in other pe

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This (Note York) and assembly its observed analysis (Non-Companie variables) Food, Walley after the report of the paper of the Tool Report Planetzes secretary of the returned I cape

The manufacture of the Total Places.

The manufacture of the Total Places of the Total

THE PROPERTY OF THE PARTY WAS A THREE CATS

Address of Branch:

P.O. Serrel III Keonmar Orissa 758 038





from the Porton

Name & Address of Customer:

Tisto Simi Eld/AFSM) Jode West

AtP/n Jode Dist - Kacryter, Odeská - 758034 India Mel

TEST REPORT

Reference No. & Date :

Report No. : Date

Sample No.:

MSKGLED/2023-24/005507

28/1/1/2024

MSKGLED/2023-24/03/09/04

100015/017/058, Date - 15/09/2025

Mis harmby country must are infimming eventure. Driven by us have higher

2. Description of sample	AIR
Unique identification of semplace say:	Anthrest Air
Date of sampling	Jóda Wed Iron & Mr. Mines (JWMM)
Place of sampling	19/03/2021
Live-report and conductive during sampling & Transport	Near Deliberry Street (1999)
Servoling Plant & Method green	General Spany
Continue con in microde from	NA .

Report No.: MSKGL/ED/2023-24/09/5907

Sample No.: MSKGUED/2023-2403/00804

RESULT

SEWIS	Parameter	HOM	Marine .	_	
10.00	Ammona (WH3)	The second second	Mathad	Limit	Result
2	Carton Monorida (CO)	(acto during)	15 S1/12 (Pan 35)	400 24 HR.	137
3	Nitroper Dioxide (NOS)	(Lankgori)	55:5182 (Part 10) (Q)	2 DHR:	0.47
-4	Ozone (O3)	muse growd	75' O (52' (F) (61) (CI)	80 24 HR	19.3
6	Patikulata Matter (<10urs)	micro grows	LS-57H2 (Part V)	100 1100.	BOL(D) 20 0
6	Phytosiam (Motter (<2.5pm)	micro govino.	45 JUS (Pint 25) (O)	100 24 HR	200
7	Sulphur Dioxida (SO2)	Tim/mg ordin	TO A 125 12 (1964) 150 16 161	60 24 HR	35
	1002)	Merg grant	15 5182 (Part 2), 101	80 24 169	7.8

Report Verified By

For Mitra 5, K. Private Limited

Authorised Signatory

Throat Month (Dir Ferre) (ME A.) C. Ress Head, Volume - 700200, West Bergal, India. See (M) 23 44403000 (22030401) Per: WT in 2350400 Seed Int. Symmetry on Wittelly - West Republican

Page Toff

Hand Difficul

She No.: MSK/SEN/1902









Scan for Ponal

ULR: TII-595024000005347F

Name & Address of Customer .

Tala Steet (MCM)_Joda West

Address of Laboratory :

Nest Bengal Tel 1491 7044036120 Emnit uddyanlab@mivasa.com

Building No F-10, Upinyan Industrial Estate. 3 Pagladanga Road, Kalkata 700015

AND - AVIA Diet - Keergeer, Oceanix - 708034 Incis

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date |

Discipline:

MEKPL/ED/023-24/G1610T

75/03/2024

MSKNB/ED/3023-24/05/FES100

21/03/2024

21/03/2024 - 28/03/2024

Permissent Facility

3000196017/066 Date - 10/09/2023

Chamina

We himby centry that the following sersole Drawn by unless have analyzed with the homorous causes:

O'ndullen
ry Starting Yard (JWMM)
ing 18-22 ceg C 2) Berometric Pressure: 708 mm of Hg 3) Rain fall
nain Muntaines
17) # USEPA
niri
Ma

Report No. . WSKPLIEUZUZS-24/G1610T

Sample No.: WSKNB/ED/2023-24/03/F83180

RESULT

Chemical			Timestal		
Bt No.	Paramistoc	UOM	Method	Limit	1
1	Attenic as (A4)	ing/mili	USEPA-10-3.4, June		Result
2	Benzenc	micro gmins	IS-5182 (Part 11)	6 (Annual)	30L(DL:1,0)
1	Berzo(a)Pytere	ngled.		5 (Amius)	BDL(DC42)
4	Lined (ins Pib)	miore gestin2	15 5182 (Part 12)	T (Afinual)	BDL(DL:0.5)
5	Manganese as Mn	micro gm/m3	- UBCPV-10 3.4. June	1 (Z4) louis)	BDL(DL:0.01)
5	Mickel as Ni		LISEPA-IO 3.4 June	Not Specified	0.13
pinion:		ng/m2	USEPAIO 3 6 June	20 (Annual)	BOL(DL:S à)

I fruit as rear CR/St economies, how Gern, 18th November 2009, for embert all country

Statement of Continuity M/A

END -

SHERRIN

Florei et

Designation

Deinstre Chierus

Authorized Signatory

Harwise

Destroyees

Late from the other per

Tray results rainte only to the immiriplement.
This Time Prisons and and as Association declarated in the present the appropriate laters in the Prisons Landed.

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The representation of the term control of the property of the SOUTH CHARGES / FIR ALIG Some from trace (Fig. 1) and Value Barged Value (Fig. 1) ACCOUNT Fac. 41 NO 2245-0008

Fired Print (Fig. 1) On 1417 Prints WWW. Market Con.

Address of Branch:

P.O. Burbi DI Keonjilver Orione 708-035





Steel mr Corne

Name & Address of Customer:

Fata Sieni Ltd.(MriM) Jintii West

At/Fo - Inda Det - Keenhar, Orlinho - 758034 Inda Min

TEST REPORT

Report No. :

Sample No.:

Date:

Reference No. & Date :

MBWGL/ED/2023-24/005590

28/10/2024

MSKG /ED/2021/21/01/01/01/05

3000158017/BSB, DMG-15/09/(023

We trurely covers that the Extending sample former by us has been members with the follower receives

Group Description of sample	AIR
Director idea (Histolius of sample(Hany)	At biert Kr
. Upin of sampling	Joda Wast Iron & Afri. Missey (JWMM) 19(0)(2004
Environmental communicationing promition & Transport	Neur D.O.comy Sarting Yorking (TVIMIN)
Sendang Plan & Medical news	Client à Supris

Report No.: MSKGL/EI/2023-24/ND58HI

Sample No.: MSKGL/ED/2023-24/03/06803

RESULT

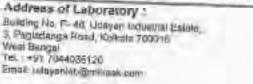
SI No.	Pacometer	HOM	Millinoid	-	
5	Ammorpai (NHO)	micro grants		Lind	Result
200	Estion Mirrorde (CD)		15 5182 (Part 25)	400 04 HR.	118
2	Nikrosofe (Nicola)	right3	(S: 5)102 (Part 10)_(CI)	2 BHR.	0.49
400	Ozone (D3)	mium gashica	(5: 5182 (Pert 8) (D)	80 24 HR	19.0
D	Particulate Matter (<10um)	two bring	(5 Still) (Post 9)	100 1166	BDL(D1-2000
2	Pasininin Matter (<7 stem)	micm gm/m3	(B:51402 (Elini 129_(D))	100 24 HP.	204
7	Sulphur Discode (SO2)	micre grivera	(O) BIDS (No. 17) SATE 31	60 24 HR	116
	Surprist Distance (SO2)	mure grains	(S: 5182 (Part 21_(D))	591.692.08	6.6

END -

Report Verified By

For Mitra S. K. Private Limited









Scan for Portal

MSKFL/ED/2023-24/E16104

MSWNB/ED/2003-20/03/7/CHUT

ULF: TC-8950240000053465

Name & Address of Customer:

Tele Steel Lid (MGM) Joda West

AtPo - John Dist - Keonjan Ocishs - 750034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

21/03/2024 - 28/03/2024 Demianuni Facility

26/03/2024

21/03/2024

3000156017/056, Dale: 16/09/2013

Chamical

We haveby paidly like the following sample Drawn by us has hear analyzed with the soprotrop resolu-

I. Group	Atmosphere Polleries
E Description of simple 3 Unique (dentification of basinie(ff any)	Ambient Air
L bate of sampling	NA .
Place of sampling	19/03/2024
Divisionmental conditions during sumpting & Transport	Near Time Office, (AVIMN) 1) Temperature (14-22 day C 2) Eurometric Pressure, 708 mm of Hg 3) Rain fail No & Colo Chair Mainteines
Simpling Plan & Nethod used	
Identification of the personnel performing somnline by NEV	Presis 5: Manto
Fleid Equipments Used	MSKEBLPIELDROS-2

Report No. : MSKPL/EL/2023-24/E16104

Sample No : MSKNB/ED/2023-24/09/70/318T

RESULT

SINO	A				
-SI Mil	Parameter	UOM	Method	Limit	No. on
T	Arsenic as (As)	ngana	USEPA 10 3.4, June		Result
2	Benzans	Emiran grains	15 5182 (Part (1)	o (Anguel)	BDE(DL:1.0)
3	Beirzo(a)Pyrene	ng/m3		5 (Annual)	BDL(DL4,2)
4	Lead (An Pb)	micro amina	(5-5182 (Part 12)) (Amua/)	SDL(DL:0.5)
5	Manganase as Mr.		USEPA-IO 5.#, June	1 (24 Holas)	HOL(DL(0.01)
6	Nickel as NI	micro provin2	LISEPAHO 14 June	Not Specified	0.23
Winfon:		ng/m3	USEPA-IO 3 4, -ame	20 (Armugi)	BDL/D1:5.0)

Limit as not CPCB natification, how Sales, note Horenton 2008, for Ambient all Justilly

Statement of Contornilly

END -

Fidewood bly

System

Mirro Geographic.

Lastonio Cremini

Authorated Signing

Designation

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The Transition was and to the receipt paper.

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The immediate of the property for the control and the control of t

Charle Selection and the Design of the Land Com-

Street Farth (Fernanc), 710. AJC Blast Road, Consen. TRANS, Wall Served, 146. 10. 40.42420 / 2566007 Fee. 97.33.2760008

Address of Branch:

P to Bachil Dr. Kepniter Ovessa 756 035





Stan for Person

Name & Address of Customer:

Tula Start Ltd. (MGM) Jistar West

AuPo. - Jarin, Dist. - Knorijhar, Odisha i 758034. inda (4a)

TEST REPORT

Report No.

Date

Sample No.:

Reference No. & Date :

M5KGZJEDØ021-24/005575

28/73/2024

MSKGL/ED/X021-24/03/00602

3000158017/056, Date: 15/09/2020

We treatly surely must be extended sample Dissen by us has been analyzed with the following free tree.

t. Broup 7. Description of sample	AIR
Helmin Marter all and a second	Anthers As
Intique identification of sample(d pay) Date of aumpling	Joda Yosei Iron & Ms. Mines (JVIIMM)
5. Pluck of sampling	1900/2024
Economy Complete September 2 Transport Sampling Class Michael Process	Char & Dusty, (AMMA)
CONTRACTOR OF THE PROPERTY OF	WAL

Report No.: MSKGLJET/2023-04/00/676

Sample No.: MSKGL/ED/2003-24/03/00802

RESULT

SINO	Paramoter	UOM	Manage	1	
15	Ammonta (Adda)	States and the States	Weibod	Limit	Result
2	Carbon Mianwido (CKS)	sector classical	(E 6182 (Part 25)	400 24 143	137
7	Nimper Danide (NO2)	make	(S: 5110 (Part 10) (O)	2 840	0.43
2		micro ymera	\$ 5752 (PAR 8) (O)	80 21 HR	17.5
4	Cittine (O3)	mem gm/mil	(S STAT (P 201 9)	100 1 608	
-	Pertindale Mottor (< Plom)	micro ont/ma	IS 5162 (Far 25) VD1	100.29 (#1	BDL(D(120.0
0	Particulate Manuer (42 Supr)	intrograms	IS 5752 (FT SALABTS (D)		203
T	Sulptor Elinado (SO2)	Colong project	18-5162 (Part 2) (O)	69.24 HR.	98
		-	construction (Care of Care of	89.24 HM.	6.8

EMD -

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

PCp: Climate Dates and Princy, 780, A.J.D. form Rand, Robusta - 700156. West Everys, India. Tel., 91:33 4694 0001 (PWRSTAD) Fee: Q1:30 colleposts Final "Inhabitation College Wilsolds - verse religibilities".

Page Lot 1

Head Office:

One No. MISKISENINSHIT





Building No. P. 48, Udayan Industrial Essets. 0, Pegindanga Romi, Kulkses room to West Sergal Tel: +91 7044036120 Email udayanae@wilcask.com





Som for Porter

ULR: TC-695024000003880F

Name & Address of Customer

Tata Steel Ltd.(MGM) Joda West

Al/Po. Jode, Dint - Recriptor, Dillara - 750U34 1008

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :.

Discipline:

M5KPL/ED/2023-24/114307

11/03/2024

MEKNR/ED/2023-24/03/NW252V

(MV03/2024

04/03/2024 - UB/03/2024

Permanent Facility.

3000155017/056, Date - 15/09/202

Chemical

We hereby certify that the following sample Diewn by unless heart analyzed with the following reduits

J. Group	Atmospheric Pallelias	
2. Description of sample	Ambient Air	
I. Unique identification of sample(if any)	NA NA	
. Cote of sumpling	02/03/2024	
. Place a sampling	Angentieri Certro Bicherundi Basti (JWIMM)	
5. Environmental conditions during sampling 6. Transport	1) Terminature: 17-31 dan C Z: Bacometric Pressure: 708 mm of Ho 1) Pain	
. Sampling Plan & Method used	No. & Cold Chain Managers S & 1829 - 11, 12, & USEPA	
hieromostion of the personnel performing sampling by MSK	Panksi Kumai Mahanta	
Field Equipments Used	MA	

Report No. : MSKPL/ED/2023-24/1143C7

Sample No. : M5KNB/ED/2023-24/03/NWZ52V

RESULT

Chernical					
51 No.	Parameter	UOM	Method	Limit	Result
1.	Arsenic as (As)	nginta	LISEPA-IO 3.4, June	6 (Annual)	BDL(DL:1-0)
2	Benzère	micro gm/m3	15 6182 (Part 11)	5 (Annual)	BDL(DL 4.2)
3	Denzo(a) Pyrene	ng/m5	18 5182 (Part 12)	1 (Annua)	BDA(D) 0.5)
4	Lead (as Pb.)	watero greated	USEPA IO à 4, June	1 (Z4 (fours)	BGL(DLD.01)
- 5	Manganese as Mr.	micro gra/ri3	USEPA-ICS+ June	Nor Specified	0.74
6	Mickel as Mi	ng/m3	USEPA-IO S 4, June	2G (Armai)	30(0):301

Doining :

Limit as per CPCB nectication, Here Dean, 19th Hoyentyer 200s, for remaining all territory

Statement of Conformity

END

Revision to

Designation

Technical In Charge

Authorised Signatory

Driignaties

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Charts Corps (ds. Frank), lett. A. Co than find makes i Partitio West Berger, Folk. Tel., 31:33-401-2000 (2000) OV File, St. 33-200-001 Frank (etc. processes on Wester), www.phineb.com Heatl Officer

Address of Branch:

P.O. Burtol D. Reemjinn Onessa 758 005





Scan ber Forms

Name & Address of Customer:

Title Short List (MGM)_Jode Week

ANPIL - Josta, Dist. - Keceshar, Odastus - 758034 India Phys

TEST REPORT

Reference No. & Date :

Report No. :

Sample No. 1

Date :

WSKGL/ED/2023-24/01/6191

GM3/2024

W5KGE/ED/2005-28/03/00131

1000158017/056, Date - 15/08/2025

We hamby comity that the following sumple Driven by us has been analyzed with the manuscriptorials

1, Group	AIR
Dwatription of sample	Amblent Air
Unique Identification of samplatif way)	AND WALL FOR & Mr. William (JWHM)
E. Dinte of sampling	17/03/2024
Place of sampling	Abuseron Centra Instrukçedi Base (JWMM)
Environmental conditions throng sampling & Transport	Clear & fjunny
Swimpling Filse & Meitherd search	1064

Report No.: MSKGL/EDGIGS-24/005191

Sample No.: MSKGL/E0/2023-24/03/00/131

RESULT

S) No.	Paramitec	DIGAE	Muther	Limit	Recuit
1	Ammionio (NH-3)	coloro grovina	19-5184 (Part 25)		1
2	Carbon Minesope (CO)	mglmä	Its 5182 (Part 10) (0)	400 24 HR.	BDL (DL: 10.0
3	Minger Diosela (MD2)	muse-govinds	15. Sinz (Forta) (C)	2 (b)(6) 80 24 HR	B.37
4	Ozone (D3)	Security controls	(2) 5 (d): (Pag 0)		17.1
5	Particulate Matter (<10um)	miara gratedi.	(S: \$162 (Pari 20) (O)	180 1 HR. 188 24 HR.	BOL (OL.ZD.O
II .	Particular (Veiter (<2.5um)	minugava)	(0) (0) (0) (1) (0) (0) (0)	60 24 HFC	147
7	Sulphor Dioxido (SO2)	micro gm/m3	IS-5182 (Ppri 2)_(O)	00 24 HB	67

- EWD -

Report Verified By

I find Office:



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 40, Udayan Industrial Estata, 7, Pogledenga Gaus, Helkela 700015. West Bengal Tel.:+917044036120 Estall calcyaniah@mitrees.com







DOCAL MISHOGENHOUS

Scott For Fortal

ULR: 1C-695024000003879F

Name & Address of Customer:

Tale Stee LM.(MGM)_Joda West

Alibe - Jude Dies - Keergher Obestig - Toende India

TEST REPORT

Report No. :

Date.

Sample No.

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MBKPL/ED/2023-24/01430C

11/03/2024

MERNBIED/0023-04/03/CXLISS2

D4/03/2024

04/03/7024 - 08/03/2024

Pomument Facility

3000156017/056, Date - 15/00/2021

Chemical

We serably certify that the lightwing sample Drawn by the treat was plant with the hillering reperty.

1. Group	Atmosphore Politika	
Z. Description of sample	Ambient Air	
X. Unique identification of sample(if any)	NA NA	
f. Date of sampling	02/03/2024	
E. Phinos of samplify	Admin Office Bicroscopu (JVMM)	
Environmental conditions during eastpling & Transport	17 Temperature 17-31 deg C 2) Strometric Pressure: 708 mm of his 3) Dalo 6	
. Sampling Plan & Method used	No.5 Cold Chain Mantained US 5182(P-11, 12) A USEPA	
. Dentification of the personnel performing sampling by MSN	Pankaj Kumai Mahanta	
Flatd Equipments Used	N/A	

Report No. : MSRPL/ED/2023-24/Q143CC

Sample No.: MSKNB/ED/2023-24/03/CKU532

RESULT

BIND	Parameter	TUOM	Method	Limit	Result
1	Amenic as (As)	ng/m3	LIBERANCI S.A., June	5 (Annuel)	BDL(DL:1,0)
2	Berzone	Emirre ovsim	IS 5182 (Part 11)	5 (Annuel)	BOL(DL'A2)
3	Benzo(a)Pyrene	Emilgin	18 9182 (Parl 12)	1 (Armuil)	BOL(DLU.5)
4	Lead (sin Pb)	minos gentes?	USEPA 10 3.4, June	T (Z4 Hours)	0.02
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4. June	Nin Speshed	0.14
5	Mickel as Ni	ng/ma	USEPA-IO 3.4, June	20 (Annual)	BDL(D): 5,0)

Limit as per CPCB notification, Herr Date, 1866 (premion 2005, for rendering an quality

Statument of Conformity MA

END -

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Spring Name

Or Dovottan Bare

Designation.

Tearness in Course

Authorited Squarcey

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Head Officer:

Training Corner (1911 France), TAIC, N. J. D. Home Prince) Comman - France III. When Bringer, Semi-ted, 191-20-4014-0001 (2005)0000 France (1912-22005)000 France | Schaper Condenses (William France) (1912-22005)000

Address of Branch :

P.O. Serall El Knorthar Onsex 758 035





Sixua for Fortu-

Name & Address of Customer:

Tisla Stimi Lid (MSM)_Jobs West

AUPo. Jode Dist. - Koonitra , Odistut - 730934 Inde Pin

TEST REPORT

Report No.:

Date:

MSKQLJED/2003-24/005194

A/05/2024

Sample No.:

Reference No. & Date :

MSKGLED 2023-24/03/00130

ACCEPTAGE 1/058 Date - 15/09/2020

We havely carely that the following sample Drawn by us has been medized with the following research

1. Group	ARC
2. Description of resignite	Ambient Air
2 Linique intellication of complétif any)	Joseph West Iron & No. Mines (JWMW)
d. Date of samping	03/03/2004
5. Place of sampling.	Admir Office Bichward (197560)
a. Coveramiental conditions during sampling & Transport	Divise & Scotting
7) Sambling Plan ii Memod united	Tox.

Report No.: MSKGL/ED/2023 24/006194

Sample No. : MSKGL/ED/2023-24/03/00130

RESULT

31 Ma.	Farameter	LIGAL	Mattered	Limit	Result
1	Amminuto (NE-13)	micro gm/mt)	15-5187 (Part 75).	400° 54 HR	11.8
2	Carbon Minnoside (CC)	mgima	15: 5182 (Pain. 10). (D)	2 Belli:	9.27
3)	Nitrigen (Loxida (NO2)	Heritagy grades	(5: 5167 (Paris) (O)	BUZAHR	17,0
4	Ozoho (O3)	Foreign groups	(NSTRE (Part 5)	160 3 HPL	USL(00,20,0)
8	Particulate Metter (<10um)	micro gmind	16: 5187 Par 30 (0)	100 ZA HH.	100
6	Phyticishile Minus (<2.5um)	Dearing.com	S REUS (P. Day serie very	00 24 FIR.	54
7	Sulphur Diaxide (SCI2)	micro grates3	(5) 5182 (Part 2) (C)	80.24 HIR.	BDL (DL.80)

EHD -

Report Verified By

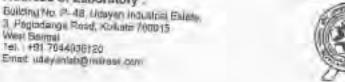
Finad Office:



For Mitra S. K. Private Limited

DOCAL MONOGENERS









Scan for Portal

ULR: TC-695024000004488

Name & Address of Customer:

Tela Stee Ltd.(MGM)_Joda West

Address of Laboratory :

ALPn - Inde Dist - Keovyvar, Ocioba - 750004 Inside

TEST REPORT

Report No. :

Date:

Sample No. 1

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/11517F

15/03/2024

MEKNE/ED/2023-24/03/P3LRAD

08/03/2074

DBID3/2024 +18/03/2024

Permanent Facility

3000156017/058 Date 16/09/2023

Citemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

t. Group	
2. Description of sample	Almorphism Politics
Unique (dentification of sample(ff-any)	Ambiest Air
Date of sampling	NA.
Place of sampling.	06/03/2024
	Lab building Joda
. Environmental conditions during campling & Transport	1) Temperature 17-28 deg C 2) Berametric Pressure: 712 mm of Hg 3) Rain fall
Sampling Plan & Method uses	- I COLORD SHOULD INVESTIGATE TO SEE
Manager and a weenod used	(5:51)0(F-11.12) & USEPA
Munification of the personnel performing sampling by MSK	Latin Nail, Akssit Seihy
Field Equipments Used	IVA .

Report No.: Water-DE0/2023-24/11517F

Sample No.: MSKNBIED/2023-24/03/P3LBBP

RESULT

51 No.	Berner C. C.	41			
91140	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	.ng/w3	USEPA-10-3.4, June	0 (Annual)	
2	Benzenn.	micro gnvind	19.8182 (Pad 11)	5 (Annum)	BDL(DL:1.0
3	Benzo(a)Pyrene	ng/ms	18 5162 (Part 12)		SDL(DL 4.2)
4	Lead (as Pb)	milara gas/m/s	USEDA (O S.4, June	(Annust)	BDL(DL 0.5)
8	Manganese as Mo	micro gen/m3		[(ZA HOURS)	0.02
В	Nickel as N.		LISEPA ID 1.4. Ame	Not Specified	0.31
pinion :		ng/m3	USEPA-ID 3.4 June	⊋ú (Ariessal)	BDL/DL/5 ()

Clest as per CPCR continuent. New Gellis, 16th Revention 2009, for employees quality.

Statement of Conformity

END -

Spranie

We Plui Cargoly

Des gratus Employer Countil Authorized Registry

Designation : Breakly Commit

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30 County (Dir Fisco), Mo. A 4.C. Torre River, Normal TERROR, West Dought was The Art St 400 62020 / 15450007 Fax. Bt 401 2540000 - 715900 Version of Fax. Bt 401 25700000 - 715900 Version Ve

Address of Branch:

P.D. Borbit Di Kooninar Ohsse 758 035





Seat for Purse.

Name & Address of Customer:

Fato Steel Lat./#65MI - Jorta West

AsPa - Jinda, Dist. - Regripher, Classica - 758034. Insta Pin

TEST REPORT

Reference No. & Date :

Report No.:

Sample No. :

Date :

MSKGLED/2023-24/00228

H/U3/2024

Market St.

ASKGLEDI2023-24/07/00717

3000158017, Date-2809/7023

We inmuly carry that the following sample Drawn by the tem been produced with the Indonesia records

1, Group 2. Description of namps:	Airi
3. Unique Identification of sample(# 20y)	Ambient Air
L. Date of excepting	Jode West Irin & Mr. Moss (JWIMM)
Place of samping	06/03/2024
Conservational about the during sampling & Transport	lab balting loda
bimping Flan & Mathey mad	Cheer A. Burny
Standburg 190 res Mediered Caped	Ten

Report No.: MSKEL/ED/2023-24/005238

Sample No.: MSKGL/ED/2/23-24/00/00217

RESULT

SINh	Parameter	UOM.	Method	1	-
71	American (MH3)	Enfunçi orbini		Limit	Result
2	Camor Marcode (CO)		US 5182 (Part 25)	400 24 RFC	19.0
		mg/m3	15: 5142 (Find 10): (Q)	2 800	
7	Nergoen Dissisir (NO2)	mare grown3	12: 5182 (Paris) (D)	80 24 HR	0.94
	Opone (Cd)	micro-grafus3	82 5182 (Part III)		31,4
0	Particulate Matter (+10um)	micro grateral		760 1 HK	90.00.30.0
	Particonte Matter (<2.5um)		CE 5182 (Part 21) (C)	100 24 HR	114
7	Sulphiu Dioxide (SO2)	man-gradesi	15 6 tec (511 24),2018 (10)	60 St HR	89
-	carried (aux)	micro gminst	(S-6192 (Part 2)-(D)	100 24 HEL	6.1

-FND -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Europa No. P- 62 Udayan Industrial Estate. 3. Pegladarga Rruni, Kokuta 700015 West Bargar Tel.: +91 7044038120 Entail mileyuntab@mirest.com





DOCNO MINIOCERONORY

Scall for Portal

ULR: TC-695024000004487F

Name & Address of Gustomer:

Tata Steel Ltd (MGM)_Joda West

AMDo Joda, Del. Roonjher Odana - 75ayav mga

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date ::

Discipline:

MSKPL/ED/2023-24/81617M

YE/03/2024

MSKNEVED/2023-24/03/G56890

08/03/2024

08/03/2024 - 16/03/2024

Permanent Family

3000156017/056, Date 16/00/2023

Chemical

We hamby contry that the following sample Drawn by us has been analysis a with the following makes:

1, Group	Atmoscheric Polullen
2. Description of sample	Ambient Air
Unique runnification of sample(if any)	NA NA
Date of weepling	06031/2024
Filtra of campling	Joda West Project Cemb
Environmental conditions during sampling & Francours	1) Temperature 17-28 dog G 2) Barometric Pressure: 712 min of the 3) Baro for
. Sampling Plan & Method vsed	TWO DE COME INTERNATIONAL
desittification of the personnel performing sameling by MSK	Lein Neil, Akash Sethy
L Floid Equipments Used	NA PAGES GREEK

Report No. ; MSRPL/EL/2023-24/81517M

Sample No.: MSKNB/ED/2023-24/03/G56890

RESULT

SINO	Disconnector	- cieva			-
and yourse	Parimator	DOM	Method	Limit	Regult
1	Americ as (As)	nginiG	LISEPA-10 3.4, June	6 (Annua)	B0L(0L1.0)
2	Benzania	inicro garind	IS 6182 (Part 11)	5 (Annual)	
3	Bonzo(a)Pyrene	ng/m3	IS \$182 (Part 12)	7 (Armai)	BDL(0L/42)
4	Lead (as Po)	midro destrett	USEPA IO DA JONE		EDL(DL:0.5)
5	Mangariese as Min	micro gm/m3	USEPAID 3 A June	1 (24 riours)	HOLDE DO
6	Nickel as Ni	ng/m3	USEPA-ID 3.4 Ame	Net Specified 20 (Annual)	0.20

I lett be our EPCB retification, hiere Debit, ittischovernoer 2005, for remient at quality

Statement of Conformity

END -

HINNEYS DV

Sepreture

Dosgonation.

Executive Courset

Althorged Signatory

Designation | Enguine Control

The metals solder only to the mental based.
This first Report shall not be mental sold competent for warming to a content of Mater & K. Immed Content.

The received part of uncompany or unsured coupling (Many property or unsured or unique (Many property or unsured or property or unsured or unsu

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THE RESIDENCE TO A STATE OF THE PARTY OF THE House Offices The Phyllenium com (Vibbos) www.stream (or

Address of Branch:

P.O. Bartal DI Kiron, or Orosas 758 title





Scan des Percui

Name & Address of Customer

Pirlin Stigel Ltd. (MSM)_Jinda West.

AttPo - Jinda, Dist. - Knorijtur, Odbina - 758034. Incia Pin

TEST REPORT

Report No :

Date:

Sample No.:

Reference No. & Date :

MSXGL/ED/2028-24/005/39

14/03/2024

MEXICALED QUZZ-24/00/00/216

(000158017, Dam - 28/09/992)

We havely centry that the following mempio Drawn by us has been analyzed with the following constru-

1. Group 2. Cherription of ample	AR
3. Unique idualification of sample(if any)	Ambient Air
4. Date of sampling	Joda West Iron & Alm, Minos (JWMM)
5. Place of sampling	G003/2024
- Currectionness contribute during seminary & Interceptor	Aleba Ward Propert Carego
. Sympton Pera & Mulbers mani	Geer & Eurny
E STOM O MEETING IREAL	NW.

Report No.: MSKGL/ED/2023-24/005239

Sample No.: MSKGL/EDIZ023-24/03/00214

RESULT

SI No.	Paravestu	UOM	Method	1	
1	Ammonia (tosta)	market constants		Limit	Result
2	Darbon Monosota (00)	and a favore	(8.5102 (Part 25)	400 24 HR	19.1
3	Altrogon Disseon (NO2)	mg/m3	JS, 5192 (Part 10) (0)	2 BHC	0.18
4	Ozone (C3)	Emilia umim3	(S, 5182 (Peri 6) (D)	-80 24 MR.	21.0
3	Particulatu Maher (<10am)	muso-grams	IS 53412 (PART II)	180 f HR.	BOL(D), (2000
6	Particulate Matter (<2,5um)	micro graves	(5: 5)112 (Part 21) (CI)	100 24 MR	175
7	Sulphur Dinaide (SD2)	(recin general	10 2 10 12 12 12 12 12 12 12 12 12 12 12 12 12	60 24 HR.	70
	- Comme (202)	Envino actini	(S. 5152 (Part 2) (C)	90124 HR.	6,5

-BD-

Report Verified By

Head Office:

For Mitra S. K. Private Limited









Scan for Portal

ULR: 7C-695024000005970F

Name & Address of Customer;

Tota Steel Ltd.(MGM)_Joda West

Address of Laboratory :

West Bengal TE : 497 7044036120 Empli adayanlıb@ml/rash.com

Bolding No. P. 45, Udayan Industrial Estate: 3 Pagledanga Read, Kokala 700016

M/Pn - Joda Dist - Keenikst, Oliska -756034 Insta

TEST REPORT

Report No.: Date:

Sample No. :

Date of receipt of sample: Data(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2024-25/VN622X

03/04/2024

MSKNB/ET/2023-24/(9/24/1390

23/03/2024

23/03/2024 | 03/04/2024

Farmanical Facility

3000 (50017/056; Dalin - 16/09/2023

Chamical

We haveby certify that the following ammple Drawn by its has been weekgood with the following leaves.

1. Group 8. Description of sample	Almosphone Palluson
3. Unique identification of sample [Fary]	Ambient Air
Data of sampling	NA .
Place of samming	20/08/2024
	Rolda School
5. Sneironnantal conditions during sampling & Transpert	1) Temperature: 14-28 deg C 2) Barometric Pressure: 709 mm of Hg 3) Rain fal
Samuling Plan & Method used	
destriculion of the personnel certaining expelled by seed	18:5162(F-1), (2) A J/BEPA
Field Equipments Lised	Pranati Kr Setti
	MSK/BBL/F/ELD/RDS-14

Report No. . Non-DEDIZOX4-25/VNGZZX

Sample No.: MSKNB/ED/2023-24/03/243300

RESULT

StNo.	Parameter	UOM	Method	Fig.	
1	Arsenic as (As)	rigim3		Limit	Result
2	Senzens		USEPA IO 34, June	G (Annual)	BOX (DL-10)
1		micro grain3	IS 5162 (Fait 11)	5 (Acoust)	BDL(DL:42)
	Benizoja)Pyrenu	ng/m3	IS 5482 (Part 12)	1 (Annual)	BDL(DL 0.5)
2	Lead (as Pb.)	Cerkeng makes	USEPA-10 dis June	1 (24 Hours)	
5	Mengannse as Min	Micro gm/m3	LISEPA-IO S.A. June		30000C0.01
5	Mickel as Ni	ng/vi3	USEPA-IO 3-4, June	No Specified	0.10
pinion :	Limit on our CDC		L 10th Howamber 2009, Rt Amb	(January) DS	BDL/DL-50V

Limit as our CPCR validances from Deine, 10to hovermor 2009, for Ambieni de quelle,

Statement of Conformity

END-

(Reviewed By

Signan

Designation

Mt. Piul Garguly Elitation Change Authoritan Egentary

Desgrates

Lait in cruivay

The first Report shall not be represented a warm on his services and support of the product of the services of

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Union Course Self com 748, A.J.C. Good Scient, Joseph Joseph Joseph German, Ivan et 31 13 december 1 2000 febr 10 133 22650000 Com 100 gloridad com yellings www.nerodo.com

Address of Branch:

P.O. Bartill Di Knonjther Orlean 75d tras





Sam for Parrell

Name & Address of Customer:

Total Sturi List (MGMI_Arith West

App. - Inds. Ost - Keurgraf Osesha - 750034 India Pip

TEST REPORT

Report No. :

Quio :

Sample No. :

Reference No. & Date :

M5KGL/ED/2023-24/005618

2803/2024

MSKGUED/2023-24/65/0820

3000 (56017/050, Date - 15/05/2023

sive herestry warmly must the following namely. Drawn by us time been analyzed with the sub-

1 Group 2 Description of sample	AIR
2 Ursqua Identification of sample(if any)	Appliers Air
Date of sampling	Joda Werl von & Mr. Minu (JWMM)
S. PAGe of sampling	20/01/2024
Community sensores derive semiles & Transport	Prosta Sirings
Sampling Flat & Mention used	Clear A Shirty
- THE COLOR PROPERTY PROPERTY AND ADDRESS OF THE PARTY OF	NA

Report No.: MSKGL/ED/2023-24/105618

Sample No.: MSKGL/ED/023-24/03/00620

RESULT

Si No	@4mministrie	Uda	Bernet		
2	Airmonia (NH3)	THE RESERVE OF THE PARTY OF THE		Limit	Result
02	Carbon Monmoido (Cso)	more grama	15 5100 (Part 25)	400 24 HR.	B0x.001-10
4		Datem	15: 5162 (Part 10), (D)	2 896.	
	Nitrogen (Soulde (NCI2)	more gruse.	G: 575, (Part E) (0)	8024 HR:	0.24
7	Dzose (C3)	mine gravest	18:5162 (Part 9)		16.5
- 5	Particulate Matter (< 10pm)	En/mip orden	(E-30(E-(Pair 25)_(0))	1801190	BDL DL:20,0
0	Fathquille Memir (<2.5am)	(Colors protect)		12ML 24 HFL	147
T	Simpler Double (SO2)	Peling grain	48 9105 (L1-58)(\$01a (th)	50 24 HR:	63
	(4.44)	Linear Billions	IS: 5182 (Plat 9) (D)	80.24 HR.	BDL(DL-10)

END

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Head Office:

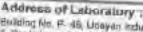
Security Day Feety, 745, A.J.C. One Room Sphale - 710010, West Revised Feet Fee, 191, 21 or Leight / 22000000 Proc. Sr 20 Contracts.

Consultation of Security Residence Security Secur

Page Laif

UNI NO. MENUTENHINET





Building No. F. 46, Udayan Industrial Editors, 5, Pagladanga Road, Krikata 700016

Wesi Bangai

Tot: -91 7084036120

Email: untayaniab@minresik.com





Scan for Pantal

U.R: 70-695024000000214F

Name & Address of Customer:

Tota Sinel Ltd.(MGM)_Joids West

Aliffo - Jada Dat - Keonjhar Odsho 75605+ India

TEST REPORT Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/R180/18

DW03:2024

MSKNE/FDVX023-2-UU3/G1276Vv

18/03/2024

16/03/2024 26/03/2024

Parmorant Facility

3000156017/056, Dalley 16/09/2021

Chemical

We hereby certify that the following semple Drawn by us has been analyzed with the Schooling reserts:

L Group Description of sample	Almosphiana Postation
1 Unique Identification of sample(dany)	Ambient Air
Dais of sampling	NA NA
Place of sampling	16/03/2024
Environmental conditions during sampling & Trauspoor	Near General Office Kharitamih 1) Tampaneum 18-32 neg C 2) Barometro Pressuré: 715 mm of Hg 3) Rain fel No 8 Cost Cheir Ministrine?
Sampling Plan & Melitind used	
Hammitteetten of the personnel performing sampling by MSK. Field Equipments Daeri	18:5102(P.11.10) & USEPA Preiik Mentil
	MSK/BBLIFIELD/RDS-IA

Report No.: MSKPUEDIZOZ5-24/R16058

Sample No.: MSKNB/ED/2023-24/03/01270W

RESULT

SI No.	Parameter	UOM	1		-
1	Arsenic as (As)		Mathod	Limit	Result
2	4.0	ng/m3	USEPA IO 3 A, June	6 (Annual)	8DL(DL:1,0
4	Banzene	Emissing craim	IS 5182 (Part 51)	5 (Annual)	The state of the s
4	Banzo(a)Pyrene	Em/gri	IS 5162 (Fact 12)	1 (Annuah	BDL(DI) 4.2
	Lead (as Po)	Surrey ground	USENHIO 5.4, Jane		BDL(00,0,5)
2	Mangenese as Min	micto grivm3	USEPAID 14 JING	(24 Hours)	0.03
6	Nickel as Ni	ng/m3		Not Specified	0.42
: noinle			USEPA/O 1.4 June or their Havemour Zude, ny Ame	20 (Annual)	23.6

Sintement of Conformity

END ...

Diving mon-Employo Characte Authorized Signatory

SQUARTE

Niger.

Care by communication

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the material services to reproduce an experience of the perfection of the post of the services of the services

The first of the property of the first of the part of

Study Carrie (et Cook 7 to A J.C. Alex Place) (cares - 70phys. Valid Carrie, February 11. 19:33 4014)(07/25)(007/7 for 61.5) 22450(0) WHEN WEND ON WELLIN THE PERSON

Address of Branch:

≠,D. Barni Di Kungjuar Orisse 758 035





Searing Forum

Name & Address of Customer:

Title Soul LM, (MSM) Jista West

/ISPs - Jista, Diet. - Knorgiver, Odhsha - / 58534 (1999) Pin

TEST REPORT

Report No.:

Sample No. :

Reference No. & Date :

MakGL/ED/2023-24/005573

27/03/2024

M8KGL/ED2023-2M00/00683

300mm0017/058, (1860 - 15/00/2013)

We havely carry that the following comple Drewn by us has been unalizing with the following results:

Asset Secret Will
Ambierii Air
20de West Item & Mr. Mines (JWIMM) 19/09/2024
Nest Diese d'Otton d'Excellences Chair à carrely

Report No.: MSKISL/ED/2023-04/006573

Sample No.: MSKGUED/2023-24/03/09632

RESULT

SiNe	Paramoire	UOM	Merimon		-
4	Annidow (Netz)	more grows		Linit	Hasutt
2	Carbon Minmede (CO)	marrid	(N 5 (B)2 (Part 25)	400 24 HR	BDL/DL:10.0
1	Nitrogen Dioxida (NO2)	1	(S) 5162 (Pert 10) (C)	2.444	0.44
4		Uning coim	15 I'UZ PS6 61 (U)	80 0 L HR.	20.1
	Dzonii (C3)	mians groups	25 S182 (PMC.9)	1851 HR.	
-	Particulate Metter (<10um)	micro grades)	(8) \$162 (Purt 23) (CI)		BOL(DL;Wix)
0	Parasdoly Moller (<2.5ym)	mass grows	E SIRE (PT 24) ZD18 (O)	100 34 HR	134
T.	Sciphur Dicode (SO2)	matter centility		60 24 MR.	57
-		1 seems around 1	IS: 5182 (Part 2) (D)	801.24 HBS	10

- END -

Report Verified By

filmed Office:



For Mitra S. K. Private Limited

Authorised Signatory

Bissint Committee Facel, 18th Auto, 2006 Rosel, Aphaba - 200018, 70ast Bengal Selba. 196. 9 (20 kit) 45000 (20 th/scale) man 5 (10) (20 th/scale) 1968 - Housel William & Walsolin Work Authority Com.

Page 1 c/1

DOWNE MEKALEWING









Scan for Parts

LILR: TC-096024000006212

Jol - 191 / 794-030120 Email udayardati@mizeus.com

Wes Sengo

Address of Laboratory :

Building No P. 48, Lidayan Industrial Estate. 3, Pagladanga Roant Kolkata 700015

Name & Address of Customer.

Tata Steel Lid.(MGM)_Jode West

AUPo, - Jode, Dist. - Kebninar Ovista - 759034 India

TEST REPORT

Report No. : Date:

Sample No. :

Date of receipt of sample:

Date(a) of performance: Location of performance of Reference No. & Date |

Discipline:

MSKPLJEDVICI23 24M16DKE

35/03/2024

M5KNB/5D/2003-24/04/792777

B/03/2024

18/03/2024 - 26/03/2024

Farmanoni Factory

3000156017/066, Date 16/09/2013

Chamical

We hereby curtify that the solowing sample Drawn by us has been unalized with the intraventy results.

1. Broup 2. Description of sample	Atmokshorte Pollution
1 Unique Identification of sample(if any)	Ambient Air
L Date of nampling	NA .
. Place of sumpling	16/03/2024
Environmental conditions district sempling & Trapsport	Keth Rulling Pump Hoose
Sampling Plan & Meshod tesed	1) Temperature: 19-32 deg C 2) Berometin: Pressure: 715 mm of Hg 3) Rain fat
identification of the personnel performing sampling by MSK. Field Equipments Used	Pratik Mantri
The state of the s	MSK/BB_FIELD/RDS-13

Report No.: MSKPL/ED/2025-24/41809E

Sample No.: MSKVB@D2023-24/03/1/2277

RESULT

Chemical			RESULT		
51 No.	Parameter	UOM	Mathod.		-
4.	Arsenic as (As)	Color		Limit	Result
2	Renzero		USEPA-10 3.4, June	6 (Ansual)	BDL(DL LD)
3	Benzo(a)Fyrene	micro ginima	IS 5182 (Part 1-1)	d (Annua)	BOL(DUA.2)
4		no/m5	IS 5182 (Part 12)	T (Annual)	BOLIDLOS
5	Lead (As Pb.)	Entires exite	USEPA-ID 9.4, Jone	7 (24 Hours)	5DL(DI. 0.01)
	Menganese su Min	En/mg craim	MSEPA IO 3.4. June	601 Specified	
B	Nicke as NI	rg/m3	USEPA-IQ 2.4, June		0.10
ipinian i	Limit an per CPC	B multiparton have re-	10th November 2005 To seve	20 (Amual)	BOL(DL:5.0)

Limit as per CPCB millionitos, have Certic, 18th November 2005, for embers of quality

Statement of Conformity

END

Fillinwid By

Dissignation

Mis. PUM Cargos Decades Criminal Sulfrenzoo Signatory

THE PERSON

The find Depolytic res as represented from in all units of the posterior of Allia & A. Prince Linear.

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Sheeds Carbon Jim Plant, 747, is an illegated to be provided than the season of the se

Facil Indignation Whate were marginated

Page | aff

Address of Branch :

P.O. Samil Dr Knong = Grissa 758 (135

Name & Address of Customer:

Tata Sand Lts.(MGM)_Jotto West





TEST REPORT

Report No. :

MSKGL/ED/2023-24/095574

Dain?

27/03/2024

ASPo. Joda, Dec. Keuniser, Odisha + 758034 India Pin

Sample No.: MSKGLECKTOV3-24/05/00631

Reference No. & Date :

3000 (660) 7/058, Clala - (£/06/202)

We herety curity that the following sample Drawn by the has been analyzed with the following

1. General 2. Beneral philos and company	AIR
Unique Identification of samplaff any	Atrobiant Air
Descripting	Jady West from & Mr. Almes (JAMMM) 19/00/2024
Sempley Nam & Matterd and Sempley E. Transport	Chair & States
, ACOMPANY TRACES RESIDENT INVASA	NA.

Report No.: MSKGL/ED/2023-34/005574

Sample No.: MSKGL/ED/2023-24/03/gl/03/

RESULT

SINo:	Parameter	HOW	46.0	1	
1	America (KHS)		Method	Limit	Result
2	Carlton Monado (CO)	missa gyvina	(\$ 5162 (Part 25)	400 24 HR	BOLIDLING G
2	/Stropen Dinsde (NO2)	mpinta-	15, fiff(2 (Part 10) (D)	2 16 60	0.45
4	Deone (Ca)	TOPO GRANG	/E. 5102 (Part 6) (O)	80 24 HR	15.8
2	Particulata Matter (#10um)	There graves	JS 5182 (FUT II)	1801 NR	BOLIDLAND
R	Particulate Matter (<2,5um)	EN/mp gm/e/3	(IS-\$152 (Part 23) (C))	100.24 HR	166
7		Sibrigued .	15 3 109 (F1-24) 2017 (U)	60'24 HB.	
	Sulpher Drouble (802)	Emines arolin	16 日間 ディン(0)	03 24 HH.	7.8

Report Ventiled By

Hemi Office



For Mitra 5. K. Private Limiteo

- Sip-Authorised Signatory

male: Woodewise





Europ Nr. P. 4E Udayan incustrial Estate 3. Pagradanga No. d. Vulkara 7000 rt Tid +91 7044036126 Empir udayarlob@maraia.com





Scan for Portal

ULR: 1C-6950240000062809

Name & Address of Customer

Tima Steel Ltd (MGM), Jode West

AsPd - Jobs Dat - Keophar Opara - 75603A India

TEST REPORT

Report No.:

Date :

Sample No. :

Date of receipt of sample

Date(s) of performance: Location of performance of

Reference No. E Date:

Discipline:

MEMPILIED/2014-VENHPDS2X

10010413024

SALAGEORIA ESTA ESTA BANKEN

35 55 2154

30/03/2624 - 06/04/352 E

Similared Facility

.00615891799W, Days 1649/2020

Chemical

We lierway cardly that the following sample Drawn by us has been analyzed wan the hallowing results

1/ Group	Almospher Fot men
7. Onscription of sample	Airtignt Ac
1. Geographication of samples (Lany)	NA
C Date of eximplify	27(03/2024
. Place of sampling	Neal Time Office (JANIXA)
Environment Lindalors minig sampling 5 Transport	1) Temperature 19-19 des C 2) Barometro Préserve 100 - et et la 2 des la
Sampling For & Method soul	No S Cold Chart Mantained
Identification of the personnel performing sampling by MEN	Procesy to Seco
Falt Equipments Used	104

Report No.: MSKPUED/202475/HPD52X

Sample No. : MSKNB/ED 0023-04/03/3045AZ

RESULT

51 No.	Parameter	Liam	Method	Limit	Result
1	Atsento as (As)	1295	USEPA-CO 3-4 June	@ jAnnuali	1
1	Berggog	Enling drain	(\$ 5182 (Part 11)	5 (Annual)	BOL(DL + 0)
	BenzasoPyikhe	rig(m)	≤ 5182 (Part 12)	(IAnnual)	BOL(0. 42)
4	(end (as Pb)	тки дена 2	USEPAHO SA June	1 (24 Hours)	BDLD, 0.5
1)	Mangaprise as My	microstyling.	USEPA-IO 3 4 June	Not Specifild	MCLIDL D D1
H	Note as N	ngim3	LISEPA(ID 3 4; Julie	707 (Annual)	904 8040 50

Statement of Comprisity

END -

Spain

NAME.

Alternating man

The field department of the form is said.

The field department of the field of the form is said block of the field of the

Head Office: Would Come the face of the fa

Address of Branch :

R.O. Barrill Dt Kearnheir Orless 758 005





Scan ter Permi

Name & Address of Customer:

Time Steel Ltd.(MGM) Jone West

ALP's, Jode Dist. - Keonjher, Odesha - 758034 Insis Pin

TEST REPORT

Report No.

Date:

Sample No. :

Reference No. & Date :

MSKGL/E0/2024-25/000005

ATTURY 2024

MSKGL/EDG07.3-24/22/01111

100H166017/080, Date : 15/09/2023

We having carrily that the following sample Drewn by its has been attalized with the followers wentle:

1. Group	AIR
2. Dissociption of nample	Ambend Air
1. Unique Montification of samulated any)	Justo Wast Iron & Mn. Almes (JWWM)
4. Date of sampling	27/D3/20/A
5. Place of semining	Marier Thomas Company, Grant Maries
C. Sindramenta conditions delegatemping & Transport	Cissa G. Sharry
1, Sampling Word & Bethod word	IMA:

Report No.: MSKGUED/2024-25000005

Sample No.: MSKGL/ED/2023/24/83/01111

RESULT

281 8642	Parimeter	MOM	Method	Limit	Result
1	Ammonia (Httl3)	micro gmim2	IS 5162 (Part 25)		
8	Garbon Monoside (GO)	DEGREES.	45; 5182 (Fast 10)_(0)	400 24 HR.	16.2
3	Mirrosin Disside (NO2)	mon go'ro	15: 5182 (Peri ti) [CI]	2 BHI).	10.06
4	Drose (CO)	more grand	18:5 (Parti)	80 24 163	72.1
5 -	Fasticulair Matter (<10ten)	Friend Comp		160 1 FM	HDL(DL:20.0)
-6	Partitional Matter (<2.5cm)	Zim mp. comm	10: 0102 (Part 23) (0)	100 24 HFE	548
1	Sulphur Dioxide (SO2)		15 S185 (142-64) 5019 (O)	60 24 HR.	107
-	Supres anime (202)	mizro guirros	(8; 5102) Pert ≥1 (0)	NO 24 16H.	7.3

- PHO ---

Report Verified By



For Mitra S. K. Private Limited

Address of Laboratory :

Sulong No P. 48 Evayan Industria Estate 3. Pegindenga Board, Kalkuta 700016 Anni Rengel Ter 401 7046031120 Email ustryaniap@wwws.com







Scan to Pertail

ULR: TC-590094009906351F

Name & Address of Customer:

Teta Steel bits (MDM)_dular West

AbVo. Jose Dat - Hermiter, Odesna - 758034 India

TEST REPORT

Report No.:

Date :

Sample No.:

Date of receipt of sumple:

Date(s) of performance: to asnemoting to noitesoul

Reference No. & Date

Discipline:

VONFLED 2014 ZIMPPIZW

06/04/2004

MSKNIHT DOUG-DARDS BY4572

V0/03/2024

10:03/2024 - 00/04/2024

Permanent Faculty

condising this, bale - 19/00/00/2

Chertycal

We neverly careful must the following example Dissive by us has been a religious to the following makes

1. Gebup	Almospheric Projection
Resongtion of sample	Abibani Ae
a director to omitication of sampling many)	SIA
L. Date of animpling	27/0//2019
5. Place of sampling	Negr D Quarry Singing Talls (JANAM)
Environmental conditions during sampling & Trainport	1 Terresisance 19-13 deg C 2 Barométra Pressure: 700 enri of He 1: Ramba
Sampling Flan & Mollimorousist	No 6 Cod Chan Manta-set IS-2 BZIP -11-12 -6 DZIPA
Literation of the personnel performing sampling by MSR.	Flanse Id Sery
Field Equipments Used	MBACKRIATE CORRESA

Report No.: MSKPL/ED/2024-25/AFF528V

Sample No.: MSKNB/EU/2029/24/89/8V4672

RESULT

Chemical					
-51 No.	Parameter	UOM	Method	Limit	Result
1	Aisenio as (Asi:	Entern	USEPA-IO 3 A June	5 (Annie)	BDL/DL + Ú/
3	Benzeme	Entire grown	15 5102 (Part 11)	5 (Annua)	BOLIDE 421
1	Henry air	Fig/m3	76.5 (20 (Part Q)	I (Antuel)	BDL/DL 0 St
*	Littled (as Pb)	tricto aming	USEPA-ID 7.4 Jaw	1 (24 Hours)	0.00
3-	Mangaresir as Mn	Cos/mg occurs	USEPA ID 3 4 June	Not Specified	
6	Noul(as Ni	Engel	USEPA/O 3-4 June	20 (Annual)	0.27 BDL(0), 5.0)

Limit us per CPCe nimitication. New Delta: 18th Neverther 2009, for Ampient in muskly

Statement of Conformity

town.

Mi. Par Division E-mark Dreems

The first incoming for the force of limits.

The first flagger of any form the continuous of full according to the first limits of the first limit

Head Office: My of Semantic Fee See A of the Bod A semantic State See Section 19 (1997) The Section See Section 1997 The Section See Section 1997 The Section Section 1997 The S

Address of Branch :

P.O. Bartis Dt Keombar (Visco 756 th):





Name & Address of Customer:

Tota Sivel Ltd (MSM: Jose West

AtPo - Jose But - Newsjeer, Odisha - 758034 Inclu Fin

TEST REPORT

Report No. :

Dain !

Sample No.:

Reference No. & Date :

03/04/2024

MSKGL/ED/2023-24/05/7112

WSKGL/ED/2024-25/000009

5000156017(658, Date - 15/09/2020

We haveby carely that the following namely: Drawn by us has be

1. Graup	AR	
2, Description of Remple	Ambignt Air	
3. Unique (dentification of accuploid any)	Jorda Wrist Inon & Mr. Shroes (JWIMM)	
4. Date of sampling	27/03/2024	
5. Place of sampling	Neur Di-County Sweeping Yang, (UMNOSM).	_
5 Environmental communes during sampling & Transport	Clase & Surve	-
7. Sampling Plan & Mothed court	NA	

Roport No.: MSKOL/ED/2024-25/000009

Sample No.: MSKGL/ED/2023-24/03/01112

RESULT

SINE	Baranstac	UOM	Method	Henri	Result
- 1	Arresena (NHS)	mao gn/ed	IS 5182 (Part 25)	400 24 HR.	13.9
1	Cathon Monocide (GD)	Empor	(5. 5182 (Part 10) (O)	2 BHR.	0.54
. 2	Nibogan South (NO2)	mary annia	ISC 5182 (Part B) (O)	80 24 HR	22.0
4	Cather (03)	micro gm/mili	16.5782 (Pact9)	180 1166	BDL(D1:20.0
Б	Parliculate Metter (+10in/)	Environ graven	(E. 5:002 (See 25) (D)	100 24 HR	
8	Particulars Macar (52 from)	muro gm/mil	45 5102 (FF-01)/2019 (O)	50 24 HR.	102
7	Subtur Dioxida (802)	miero gm/mO	Bit 6182 (Part 2) (D)	90 24 HR	7,4

Report Verified By



For Mitra S. K. Private Limited

Address of Laboratory:

Busing No. P. 46, Useyor Industrial Estate
3. Pagedangs Road, Ruhata 700015 West Bengal 2nd +91 7244839120 Email udayanlab@minasa com







Scan for Portal

ULR: TC-6950040000000004544F

DISTRIBUTED VALUE

Name & Address of Customer

Time State Ltd (MCM), Joda Wast

navo Loss Sist Kemphan Dauna 198054 Indu.

TEST REPORT

Report No.:

Date

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date |

Discipline:

MSRFLED/2024-25/V/5822

6504/2024

ASKNEEDOWN SALDVANDANIV

MARKETOWA !

10/03/24/04 | 08/04/2024

Permanent Facility

IODERSON CHE TERRITORY

We needly centry dual the forcewing districts Displaying his housewest analyzed with the following results

1, Group	Atomyphere Polatich
Z. Description of sample	Amissent Asr
Unique Identification of sample(if any)	(4)
A. Date of sampling	27/05/2024
5. Place of sampling	Near Ci-County Screen (JAIMM)
Environmenta conditions during sampling & Transpart	To Temperature: 10:30 dag G IV (basemetric Pressure) 706 mm of Hig II) Roun fa No 6 Cold Chair Marriagnet
T. Sampling Fran & Method used	18 5 187 (T-11 (2) & UBERR
E. Identification of the personnel performing sampling by MSV	Prantsy for Sietti
Field Equipments Usett	MSHIBBUFIELD RUS-II

Report No.: MSKPL/ED/2024/25/V76629

Sample No.: MSKNB/E0/7073-24/03/M045//

RESULT

Chemical					
SI No.	Parameter	NOM	Method	Limit	Result
1	Arsenio as (As)	ngims	UEEPA-IO 3-4 June	5 (Annial)	BO((5) 1 ()
2	Bertzinn	micro gmind	15 5152 (Port 11)	E (Annual/I	BD1(D1.47)
2	Bienzola Pyrene	mpmå	S 5162 (Pan 17)	1 (Annual)	ECLIDE 0.5
4	Lead (as Pb.)	тисте диута	USEPAID 3.4 June	1(24Hours)	80L/bL 0 01
5	Manganese as Mrs	tricro gm/m/)	USEPA-IO 14 June	Not Specified	0.23
0	Trickel as No	ng/m0	USEPAID 3 4 June	20 (Armus)	BOLICK 5 0

Opinion:

I that as pur CPCB restruction. New Delhy, 18th November 2009, for Ambient air quality

Stidement of Conformity

END -

Free Charle

The part of the control of the contr

Head Office: State Carte on Fact and Edit State Process 70000 West Survey of Carte of the Carte

Page toft

Address of Branch :

P.O. Bertal Di Kassaher Onesa 758 635





Scinitic Cortain

Name & Address of Customer:

Tale Shiel Ltd.(MGN), Jode West

AsFc. - Jods Dist - Keorijter, Odisha - 758034 Inde Pin

TEST REPORT

Report No. 1

M5KGL/ED/2024-25/000016

Date:

(CVT01172024

Sample No.:

MSKGL/ED/2023-24/03/01113

Reference No. & Date : 3000156017/056, Onto - 15/09/2023

We harsby certify that the following sample Orage by us has been assigned will the following results

1, Sroup	AIR
2. Description of sample	Aerosianti Aur
2. Unique Identification of sampling any)	Joda West kon & Mr. Mines (JWMM)
4. Onte of sampling	27/03/2024
9. Place of sampling	Mace D. Cource Street problems
C. Environmental nondeates during complete & Transport	Clear & Sumy
7. Sampling Plant's Mentou used	TNA

Report No.: MSKQL/UD/2924-25/000415

Sample No.: MSKGL/ED/2023-24/03/01113

RESULT

91140.	Printeredito	HOM	Ministract	Limit	Result
1	Жинова (ЧН2)	more grayma.	18 5182 (Part 25)	400 24 HR	15.6
2	Carbon Monoxide (CO)	mgans	18: 5162 (Part 10) (O)	2 846	0.54
3	hamager Dioxela (HOS)	TENTO GITTING	rac strice (Part 8) (C)	80 34 HR.	20,2
4	Oznno (D3)	Emissing explain	IS NYB2 (Fayth)	180 4 141	BSL(DL 20.0)
5	Portinuate Manue (<10um)	mine ymin0	15 5 52 Pm, 23)_(D)	100 24 HR	206
41	Phyliniania Blatter (<2.5um)	unies greeks	Spirit (17-24), 2019 (D)	60 74 HR	98
1	Suithir Dooce (SO2)	Daling malm	(8: 3162)(File 2) (O)	30 24 HR.	- 7.3

- Elitt

Report Verified By (89



For Mitra S. K. Private Limited

DUTY MINISTRALL





Builting No. P. 48. Udayan Industrial Estate. 2 Pagradanga Roan Kolasta 700015 West Barry of Tel: *91 7944/136/20 Email: catalyamints@mimasa con-







Scan for Postal

ULR: TC 595024000005263F

Name & Address of Customer:

Tata Steel Ltd (MGN)_Joda West

ASPO Joda Diel (Kimnyra) Odena 758034 Hinn

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of namelo-Date(s) of performance: Location of performance of

Reference No. & Date

Discipline:

M3KF1/ET/17024-05/61/1524

D5/04/2624

MRKNEED/2023 24/15/0,64504

10/11/2024

30/03/7074 - 00/04/2024

Plantanett Facility

300015(017)056 Deta - 10103/2923

Chemical

We revely carry that the following semple Drawn by us has been analyzed with the following

1. Group	Amaginary Paragram	
I Directipation of sample	Ambiest Ap	
1. Uruque blantification of sample any)	PIA PIA	
4. Ovilly of sampling	27:03/202×	
Place of sampling	Material Quarry Rest Shorter LIWOMMY	
Environmental conditions turing sampling & Transport	1) Telegrature 15-30 deg C. 7) Barranding Pressure: 700 mer of log 3) Flan	
Sampling Plan & Melajod used	Mt. 6. Chit Chan Maintailed (6.5182) P. 11. (7) & USEY4	
identification of the personnel performing sumpling by MSK	Pranav Kil Belt.	
Field Equipments Uses	MSK/98L/FIELD PDS.1	

Report No.: MSRPLEDG024-25/AY752A

Sample No.: MSk/dsicopogs-24/05/A4S64

RESULT

SI No.	Parameter	LION	Method	4 lants	
1	Arstonic as (As)	Emign	7/15	Limit	Result
2	Benzene	The second second	USEPA-KO 3.4 June	& (Annual)	ROLIDL 10
3		cascia Grant 2	19 5162 (Part 11)	5 (Annual)	BOLIOL 47
-	Destora Pyrene	Hom.1	15 5162 (Part 12)	(LoAnnair)	image os
	sweet (see Pir)	micro grivins	USEPAID 3.4 June	1 (24 Hours)	
*	Manualuse as Mrs	Imple onlinia	DISEPAND 24 June		SELEN DAY
6	PASSED on No.	rigim I		Not Specified	0.4%
Spreign		a nomeaton flow bar	USERA-IO 1-4 June Tem November 2009 for Ame	20 (Annuyi)	F3

Statement or Costamily

EMP.

Mr. Hum Germann

Departury Decide Cherch

The second of the party of of the p

Head Office: On the Contract of Auril Institute Auril 1999 (Auril 1999) (Auril 1999



P.O. Backli Dt Kuchener Orean 758 date

Name & Address of Customer:

AliPo - Joda, Durt - Seonmur, Odisha - 758034 India Pin

Titto Rheal Ltd (MGM), Josep Wort





Sens her Persal

TEST REPORT

Report No. :

Date:

MSKGL/ED/2024-25/000000

95/04/2924

Sample No.:

W5KGL/ED/2023-24/05/01114

Reference No. & Date :

1000159017/056, Ohr -15/09/2023

Will hereby centify that the following sample Drown by us has been prodygon with the following results:

1. Group	AIR
2. Description of sample	Ambient Air
3; Urugus Identification of sample(8 ang)	Jode West Into & Mr. Mines (JWMM)
4, Date of sampling	27/03/2024
5, Place of sampling	Name 14 Quarty Front Employ (19/08/M)
6. Emilyotamental consistance during pumpiles & Frameport	Close & Tairny
T. Sampring Plan & Mothou used	NA.

Report No.: WSKGL/ED/2024-25/000000

Sample No. ; MSKGL/ED/2023-24/03/01114

RESULT

III His	Parameter	HOM	Sinthon	Limit	Result
4	Ammenia (NPD)	interp grains	IS 5 No. (Part 26)	400 24 HR	17.0
-2	Caman Monowife (CO)	hightili	S: 5182 (Part 10) (O)	2 DHR	0.64
15	Minster Double (NCZ)	maagmma	(5: 5:82 (Psn f)_(0)	80.24 HR	20,1
of .	Ottone (D3)	there goving	IS STAZ (PVM S)	100/1393	BDUDL:00.0
5	Particulate Matter (~10mm)	Dishery come	15: 5182 (Pint 23), (O)	100.24 HR	216
10	Remodelo Matter (<2,0um)	Transprond	(B 3 (B) (PT-24), 20 (8 (O)	mi 24 rus.	103
7	Suph Diox de (SO2)	chinto gravina	(S; 5)(82 (Part 2), (O)	00 24 HR	7.4

- END-

Report Varilled By (1819)

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Securi Code (SA Phon) PMI, A.J.C. Securition) K-Sura - 100016 Wast English Selfs (Sa 1872) Attachment Selfs (Sa 1872) Attachment

Page Loff

Address of Laboratory :

Rode gree P-48, Useyan (Startler) Lines 1, Pegladenga Road Youals 700015 West Decuga fel - si 75Hizas izu

Emili udayor shift whitek por







DISTRICT MERCEL VILLEY

Scall for Forfal

ULR: TIC-695024000008264F

Name & Address of Customer:

Teta Steel Ltd (MGM), Joda Wett

ALPO Juda DH - Kessey ti Cosska - 755034 bdus

TEST REPORT

Report No. Date:

Sample No. =

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date .

Discipline:

MSKFLIED/2024 25 MX 052

06/04/2024

MSKNBEEG/023-74/03/X7450G

30/0//7074

30/07/2024 - 05/04/2024

Parmanent Fashing

XXXXX55017/056, Data - 75/00/2023

Chamming

We thereply partity that the indowing partition District by us has been analysis

Description of a simple Unique to militration of a simple (a section) Date of a simpling Place of a simpling	Alemanus Poliusian Robbin Air NA 27/00/2014
Environmental conditions deling sampling & Transport Sampling Plan & Method used Userphication of the pursonnel performing sampling by MSK . Post Equipments Uses	Num Findway Storing LAMMM] 1) Temperature violated day (2.3) Eurometric Pressure: 709 mm of Hg 3) Rom (a 16 & Cold Chair Mentalmed 15 04) are 11 32) & USEPA Printy IV Settle MSN/BBUFFF (DISTIN.)

Report No.: MSKPL/EDGG24-25/MX552Y

Sample No. 1 MS/015/ED/2023-24/03/9/24660

RESULT

SI No.	Parameter	UOM	1 14-12-		
3 1	Argenic as (As)		Mathod	Limit	Result
2	Bantane	ngms	USEP4-10 1.4 Ame	6 (Aresun)	
3		Micop general	15.5182 (Part 11)	5 (Annual)	BOUDE LO
4	Detizacia/Myrene	(C)(4)	(5.5183 (Piak 12)	1.16nmusic	BOLIER 4 ()
5	Level (as Por)	micm qm mi	LISEPANO 34 June	1 (24 February)	BOLIDE 0.5)
10	Manijameni as Me	PD0 30%3	EISEPA D 3 & June	Not Specified	DOS
	Nickel as &	rg/m3	USEPA-IO 3 & June		0.31
ninlan:		ing/e/E	USEPA-IO 3 4 June 18th November 2009 for Asse	20 (Annual)	72

Stell or ser CPCh represent New Delta 18th November 2009, for Assured or sounds

Statement of Conformity 1944

END

Herman Taxas Commit

Action in Company

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the distribution for the party of the last time of the forest and the first or proceedings and the forest time of the first time of the forest time of the forest time of the first time of Head Office:

Septimental Company of the State of the Stat

Page 1 of 1

Address of Branch :

P.O. Bartel Di Keonmar Orises 750 (11)





SCREETS PARTIE

Name & Address of Customer:

Tito See LIG/ARSM) John West

ANPO, - John Dec. - Recorptor, Odistre - 758034 worm into

TEST REPORT

Report No.

Date:

Sample No. :

Reference No. & Date :

MSKGL/ED/2024-23/000013

03/04/2024

WSKGL/EDQQ/3-24/00/01/15

3000156017/055, Daw - 15/09(2023)

We have by candy that the following sample Drown by us has been analyzed with my kniesom more to

1, Group 2. Description of sample	AIR	
	Ambient Air	
7, Unique Mercification of sample(if any)	Joda West from & Mr. Marses (1976AN)	
4. Data of sampling	27/03/20/4	
D. Placy of swinging	Main Germany Sident, (ANYOM)	
6. Environmenta hundrente suring sampling & Transport	Class & Survey	
7. Sampling Plan & Mathad steet	TM	

Report No.: MSKGL/ED/2024-25/000013

Sample No.: MSKGL/ED/2023-24/03/01115

RESULT

RF Mo	Distribution	DOM	Meshod	Limit	Result
7	Annena (NH3)	comp gmim3	IS-5182 (Part 25)	450 24 HR.	24,6
2	Garbon Municiple (CO)	Entrore	(5; 6182 (Part 10), (O)	2 mm.	0.55
2	Hirages Dioxide (NO2)	mean dumera	45: 5182 (Pet 6) (O)	80 24 HR.	22.8
4	Q200 (03)	Corlege outen	IS STAZ (Part 9)	180 1 HR.	Bouldback
	Perioscale Matter (<10um)	militio graind	(S: 5169 (Part 23) (U)	100 24 FBC.	210
IF.	Ferros (nor Matter (<2 film)	micro graded	(5) 150 (FT-14),2018 (O)	60 26 NR.	102
7	Suplus Thoods (\$02)	Cin/mg orann	15: 518# (Part 2) (O)	80 24 HR.	7.9

-END-

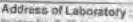
Report Veriffed By

For Mitra S. K. Private Limited

Authorised Signatory

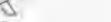
House Office: Standard Control (Standard Annual Systematical Access - 2000) Georgia (India India - In

Page 1 off



Burging No. P. 48, Danyan Indisebat Exists. 3 Разрамина пони комин приче West Burger Tel: +91 7044836120 Emilia utaya Differenza con-







Board for Prottal

ULR: TC-095024000006765F

Name & Address of Customer:

Title Steel I.M (MISM)_Jode Worl

AVPn - Joda Dall - Kechhai, Odena - 756034 Irms

TEST REPORT

Report No. -

Date: Sample No. :

Dale of receipt of sample.

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2024-25/00332D

DMCD4-2024

M5KNB/ED/2/23-24/13/2N4580

20020000

30/03/2024 - 95/04/2024

Perhand Facility

2000100017656 Date - 15/09/2023

€/letmicari

We hereby could the knowing sample Down by ut has blain workered with the furning leaves.

Group Description of sample Unique Mannification of annigeron may Date of sampling Place of sampling	Ambert AV (44 - 27/05/2024
Environmental conditions sharing sampling & Transport Sampling Plan & Method used identification of the paragram performing sampling by MSP. Plant Equipments Used	New Congressia Fri (Anthon) 1) Temperature 19-10 why C 21 thromotic Pressure 709 mm of Fig.3) Rain fail (6-2-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-

Report No. : MSKPLEDQ024 25/800520

Sample No.: MSKNIDEDI2023-24/03/ZN45/02

RESULT

hemical					-
51740	Parameter	UOM	Method	Plant.	
1	Arsenic as (As)	naind		Limit	Result
2	Decoins		USEPA10 3 4. June	-0 (Annual)	BOURL 10
3	BentujziPynnia	mam quand	(\$5)(82 (Part 17)	5 Annual	80 L(BL 4.7)
4	Lipad say Ptr y	hymi	15 5162 (Part 12)	1 (Aresus)	30L(0).6.5
5		mon paries	MEEPA ID 3 4 Aune	1 (24 Hours)	504
	Manquirose as for	micro du/mit	USEPAID 14 June	Not Specified	
pinkin :	Nickel og Mi	ng Hr3	LISEPA-IO 3.4 June 1 Tillii November 2009 for Ann	30 diamento	7.5

Limit as any CPTOs notificarent, frew Certal 1886 Navember 2009, for Airchiest avi quality

Statement of Contorney

END

Harm

Ass of the Charge In **Imagnatur**

Event Date

Avenue have

The manufacture of the best of the process of the p Head Office: The State of the S

Page 1 of 1



P.O. Bartal Di Hooritan Orissa 750 055





M6KGL/ED/2024-25/000007.

TEST REPORT

Name & Address of Customer: Report No. :

Data

True Street Lini (MGM), June Wood

AbPo. - Jods, Dist. - Keorghar, Odisha - 758004 India Pin

III/04/2025

Sample No.: MGKGL/ED/2023-24/03/01116

3800158017/855 Date +15/80/20723 Reference No. & Date :

We hereby centry that the following electric Drawn by us have been analyzed with the following results:

1. Group	AIR
2. Description of sample	Ambient Air
5: Unique Identification of sample(ffamy)	Jose West tree & Mr. Minns (JWWM)
v. Date of sampling	27/03/2024
Citans of sampling	Neuer Georganistantin PN LTMIMIM)
). Enverymental approximations thering sampling & Tourspart	Clear & Barry
7. Sempling Plan & Mathod used	NA

Report No.: MSNGL/ED/2024-25/000007

Sample No.: MSKGL/ED/2023-24/03/01/16

RESULT

SP No.	Parameter	DOM	Metros	Limit	Result
1	Ammortié (NH3)	misms goviena	IS DEC (Prot.2b)	400 24 HR.	18.7
-2	Carbon Morkmitte (CD)	mgmd	15: 5162 Fee 101 (O)	2 000.	0.47
3 1	rvaniges Engada (NGZ)	migg gmima	is, alice (Farin)_(0)	60 14 HR.	28.3
4.	Ozona (D3)	Emarting prisons	(5.5182 (Part 9)	140 1196	BDL(DL-2010
5	Pastinian Mater (#10pm)	Critima protect	(S: 5182 Puv(29L(0)	100 24 HR.	200
- Li	Province Matter (<2 family	Disking analysis	(S. E182 (PP. 24) (2018 (CS)	80 24 HR	90
2	Suphur Dioxete (SCG)	micro gre/m3	(S: 5182 (Port 2), (O)	80 24 HR	7.4

END

Wepart Varilled By

Haved Officer

For Mitra S. K. Private Limited

Address of Laboratory:

District No. 1: Alt. Usayan indicand Extate. 3. Paglidanga Indao, mosana 70001 April Resign! Tal. +51.7044038120 Emby uday white It is wask of m







Scan for Portin

ULA: 1/2/66034000000771F

DATE VOCESHIEF

Name & Address of Customer :

Tale Street Ltd (M/GM), Joda West

AsPo - oda Qui - Keonfar Odena - / mega mea

TEST REPORT

Report No. 1 Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date

Discipline:

MIKPLE0/2024-25/M0052M

66/04/7024

W8KNH/ED/2073-24/03/ND4567

30030024

30/03/2024 - 06/04/2024

Permanent Facility

MGB+56017/056, Cate - 16/09/2023

Chemical

rally that the Johnson grample Drawn by us has been analyzed with the following results

the freezy coursy that the Additionally survives browning	Approphase Proteins
1. Group	Ambient Ad
2. Description of samelé	NA.
3. Unique identification of semple(s any)	26/03/2020
à Date of sampling	Fight Gargeguits Pro(JMMM)
5. Place of sampling	1) Terror state 16-34 org C 2) Barometric Pressure. 707 mm of Hg 2) Rain (n)
6. Environmental conditions during sampling & Transport	No B Cole Chan Mentanes
7. Sampling Plan & Wethod used	IS STATE AT THE A DISEPA
B identification of the personnel performing bempling by Man	Parrial Hr Maharis
9. Fiers insugments Uses	MSKRBUFIELD FUS-I

Report No.: MEMPLIED 2024 25 MD042M

Sample No. 1 MSHIB-EDIGUS-24-03-NG45B1

RESULT

hemical					
SI No	Parameter	:UOM:	Method	Limit	Result
2 110	Aipeno as (As)	engles.d	USEPAIO 3 4 June	é (Annual)	BDL(DLT,0)
-		wiprogram/m3	15 5112 (Part 71)	5 (Assissit)	BOLIDL 4.2)
2	Benzene	m/m)	(5.51k2 (Part 12)	Airmat	80,00,05
3	Banacia System	moo primiti	USEPA-D34 June	1 (24 Hours)	2.02
4	Lend Lin Pb	mieto atrito.	HSEPAJO 3-4 JUNI	Not Specified	6.17
3	Vanganese as Mn Nakel as No	reg/mcl	LISEPA-10 3 A. June	23 (Anh(sill)	90L0L60

Cainion:

Limit as per CPCB well-cutor, New Date, 18th November 2009 for Ambient or spatial

Statement of Conformity

- END -

Immored By

Paradox Chemid

The fact that had not be the production of a result to person the product of the

Head Office, The Property of the Committee of the Committ

Page 7 of 1



Address of Branch:

P.O. Bartil Dt rosoopher Driess 758 835

Name & Address of Customer :

Time Steer Lat. (MCGO) _ code West



Scan for Portal

TEST REPORT

Report No. :

MEKGL/FD/2024-25/000011

Date

Q UM/2024

/d/Po. - Jook Disi - Keonjhar, Odieka - 758034 India Pin

Sample No. ARRIGATED 2023-24/03/01125

Reference No. & Date

:000156017/056, Date - 15/08/2025

We havely confly that the following strough Dyourn by us not been analyzed with the following result:

1. Group	AIR
2. Description of sample	Ambieni Air
3. Unique foortification of sample if any	Joda Wasi Iron & Wr. Misru (JWWW)
4. Date of sampling	28/03/2024
1. Plane of semoling	Neir Gargiguda Pit (JWMM)
6. Environmental appointment within a semplate & in amount	Charle Sunny
7. Sampling Plan & Mulfood used	(NA

Report No. : MSKGL/EDIADA-25/00/011

Sample No. : MSKGLED/2023-24/03/01/22

RESULT

SR NO.	Parameter	HOW	Managed-	Linit	Result
1	Ammonia (NH3)	misso gmints	(5 5 (52 (Pun 25)	400 24 HR.	1/4/8
6	Cartion Monorode (CO)	mg/m3	IS 5182 (Pwr. 10) (O)	2 040	0.58
3	Nitroger Dissort (NUZ)	man grima	(5: 5162 (Part 4), (O)	80.24 HR	22.6
4	Danne (Ga)	núcro giolytů	(III STIEL (Dart II)	1903 T. FER.	BDL[DL-20,0]
	Participale Motion (=10um)	micro dmirrid	(S. S.H.2 (Part 27) (C)	100 24 142	210
p.	Perfecuels Motter (<2.com)	mine-gmins	18 8182 (PT-94)(2018_(5))	60.24 HR.	102
+	Sudemor Diametro (SO2)	Printing arrang	15: 5162 (Per 2) (O)	80 24 HFL	7.7

END -

Report Verified By

Head Office:

For Mitra S. K. Privata Limited

Address of Laboratory :

Sunding No. Ft All. Coayun (Atlantus Polisio 5. Fugladanga Hrund Kokune (1996) West Bengal

Tel +91.7044036520 Естри и-бирастараризация изп





Scan for Fortal

ULR: TO 635024000095370F

DICKS MERCENSTERS

Name & Address of Customer:

Tech Steel Ltd (MSM) JOSE Viest

REPO Loads Dist - Keimeler, Opena - 750004 Hose

TEST REPORT

Report No.

Date:

Sample No.:

Date of receipt of campile:

Date(s) of performance: Location of performance of

Reference No. & Tista :

Discipline:

MSKPL/60/2024-257A7525

00/04/2024

MIKNB/EDDIZZSZATOWES45CH

5003/002A

3503/2074 - DEKNA/2024

Harmanurt Facility

2600156017/056 Date - 16/09/2023

Chemical

it'd hereby awith that the following sumple Drawn by its past falen analyzes with the following resides

he hesely and ty that are no only sent in a time by the (the	patrosphera Patalina
Grpup	Ambielt Air
Description of sample	NA .
Unique Mentification of sample III any	25/03/2924
Cate of sampling	Hinar Railway Sirling, CHWMMI
Place of sampling	1) Temperature 18-34 day C 2) Byromenn: Pressure 707 mon of Hg 3; Rac full
S. Environmental conditions during sampling & Transport	No & Cold Chair Mactaines
C Sampling Plan & Mathon used	IS STANP 11 1216 HEPPA
L complication of the personnel performing assenting by MSM.	Photos Ki Alaharda
2. Frein Equipments Uses	MSK/BBLFELSRIS-1

Report No.; MINFLEDTOX 25/747575

Sample No.: MSKN9/ED/2023/24/03/MS45CH

RESULT

Chemical					A STATE
St No.	Pairweilston	NON	Method	Limit	Result
2011	American (Ac)	hglm1	USEPA-10/1.4 JUNE	E (Amroal)	BDL(DL1,0)
-	Bargary	iucis grim's	(6.5(82 (Parl 11)	1 (Annual)	BDLDL 47
3		now.3	15 9182 (Part 12)	1 (Annual)	BOLD: 0.1
3	Bankera)Pyrene	recepmin3	USEPA IO 3 4 June	1 (24 Hours)	0.04
4	Lead (as Po -		USEPAID 34 July	Not Spenified	0.20
2	Marganese as Mn	micro (prom2)		20 (Annual)	30.3
	PROPERTY AND PRO	Fights2	USEPAID 24 June	-20 (emiliar)	

Opinion.

I mit zu per CPCR multication. New Detro Item November 2009, for Ambient dis quality

Statement of Conformity NA

END .

NO MICH

Artemitical Students

The course restrictive of the first is an expensive of the course of the

to TANTE Man Barrier Service The plantage of the property of the plantage o Head Office:

Page 1 of 1



Address of Branch :

P.O. Barbi Dt Keonitan Drissus 758 006



Scan las Bosto

TEST REPORT

Name & Address of Customer;

Total (Sleet Ltd.(MKSM)_Joga 9Yest

Anthri - Joda Tasz. Keonthal, Odisha (16603) Innia Per-

Report No.:

Date:

Sample No. 1

Reference No. & Date :

MBKGL/ED/2024-25/000012

HKD4/2024

MSKGL/FD/2023-24/03/01 F21

3000160017/058, Dale - 15/09/9003

the hands made me too following sample Draw; by us has been made and the following results

1. Group	AIR
Description of sample	Acritiment Air
L Unique Identification of sample(III noy)	Jesta West from S. Mr., Mines (JWWW)
Dide of sampling	26/03/00/4
Carlotte 1 - Carlotte Marie	Nate Rolling Siding (DVBMM)
Environmental considerer during sampling & Transport	Cear & Sunty
7. Sampling Plan & Method used	NA .

Report No.: MSKGL/ED/2004-26/09/09/2

Sample No. : MSKGUED/2023-24/09/01121

RESULT

Analysis Result of Ambient Air					
SING.	Parameter	yow:	Michou	Limit	Result
1	Amnieria (MHI)	mions growns	85 5102 (Part 25)	480, 24 HR	15.2
9	Curpon Monande (CC)	mgieth	IB. 5182 (Part 10) (O)	2 SHILL	25.46
3	Nitrogen Dioxido (NO2)	micro gravau	15: 5182 (Part 6) (C)	90 24 MR.	23.6
4	(320m) ((33)	inum property	ES T(IIIL (Perf II)	180 f HR.	0.00L(01:20.0
5.	Participano Minter (<10am)	minn gmino	(E-5100 Phr 25) (O)	100 24 HR.	218
2	Parinamen Resear (52.5mm)	mana smma	16-9162 (PT-24) 2010 (CO	HXC24.3 (F)	7003
T	Surgical Disserter (802)	cream amints	IS: 5182 (Pel 2) (D)	80 24 FFL	7.8

- END -

Report Verified By

Hasel Difflior

For Mitre S. K. Private Limitec



Burding his 2 46. (mayon freitigting Estate 3. Physidangs Road, novata 700015 Wint Drimper

Tel 491 7044939120 Binar utayunab@mliar com





Scan for Portal

OLA: YC 49502400000000000

- No MERCENNINE

Name & Address of Customer:

Take Step Liu (MGM) Joda Wirol

ALPO - Jude Diet - Keigner Odigne - Februik milite

TEST REPORT

Report No. -

Date:

Sample No. 1

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MOVPL/CD/2024-257/5U52G

DE-D4/2024

MISKNEY ED 2013 JAHRAMICALAS

MHQ3/2024

00/03/2024 - 06/04/2524

Parmament Facility

30001ER017/056 Date 16/09/2023

Chemical

who servery deletes that the following sample Drawn by its new been analyzed with the following results

he terrest saidly that the following striples province by 40 mm	Almospherio Folkiem
1. Gring	Arritains Air
z. Description of sample	NA .
Unique Identification of sarpsin(ff any)	26032024
f Date of sampling	and the second of the second o
5 Place of sampling	1) Temperature 18-34 seq C 2) flavorature Pressure. IDT miss of Hig 2: Rain to
8: Finy-commental conditions during sampling \$ Transport	Tria & Cold Ethiro Mandarres
7, Sampling Plan & Rethod years	IS STREET TO IT IS HEEPE
B. Genification of the personnel performing securing by MSK. 2. Figure Equipments described.	MSAdSUJF \$1,0 RDs 1

Report No. : MSIPUED 2024-25/HBL52G

Sample No.: MSKNB/ED/2021-24/03-MC45AB

RESULT

Chemical					Result
20 844	Pargmeter	MOU	Method	Limit	1103.5
at my	An are builded	noim3	(SEFAIQ) 4 June	B (Atriosal)	BOL(DL1,0
1	Arrent to Asi	Entrep grows	IS 5102 (Part 11)	£ (Annual)	#DUD: 42
2	Centrum		(5.51A2 (Part 17)	V (Armodi)	BOLDLOS
3	SenzolatP//www	rig incl		1 (24 Hours)	0.02
4	Lead (as Pb.)	in and grants	LISEPA 10 3 4 June		0.20
4:	(Aarcantenicus M/s	MACES (\$PERTIL)	USEPA-ID 3 4 June	14st Specified	
N	Nickel de Na	Limites .	LIGERA 40.3 4, June	20 (Annum)	EDLIDE S D

Opinion I

Limit as per CPX18 matrication. New Daths. 15th November 2005; for Ambunit or quality

Statement of Conformity

END-

Spinner

1 1000 13

liming on on

Longitude Course

Authorities and her aims

Described on the property of the second of the property of the

The of \$1 and \$100 (20000) had to \$100,000 (20000) Head Office:

Page 1 of 1



Address of Branch:

P.O. Bartis D. Knogton Orama 758 CO.



Sean for Persu

TEST REPORT

Name & Address of Customer:

Talla Steel LM, (MCIM) _inch Weel

AVPo - Jasa Dist. - Kerniner Ddena - 758834 India Pm

Report No. :

Date:

Sample No. : Reference No. & Date . MRX.GL/ED/2024-25/0000001

U3/MI2025

MSKGL/ED/2023-24/03/01120

3800158017/056, Date: 15/06/2023

entry contry shar the following comple Down by us has been invitived with the following installs:

Centup	AIFT
7. Description of sample	Archiert Air
Librique (dentification of sample)(il any)	Justia West from & Mrs. Minuse (JWWM)
A. Date of sampling	20/03/2024
	Maar H-Curary Rest Swifter LWMMI
Environmental conditions during an paring it. Transport	Clear & Scotty
7. Sampling Plan & Method used	NA NA

Report No.

/ASK/SL/ED/202+ 85/000000

Sample No.: MSKGL/ED/2823-24/03/01/20

RESULT

malysis Result of Ambient Air					
5d No.	Parameter	DOM	Mestyod -	Limit	Result
A	Aintroois (8H3)	micro gminis	≥ 5162 (Furt.20)	400 24 IHL	10/1
7	Carbon Munusian (CO)	. Cmigar	(5-5162 (Pw) 10)_(D)	2 SHR.	0.52
9	Nitrogen Ditxide (NO2)	micro dynus	18 3162 (Paris) (O)	80 24 HR	21.0
A	Oriena (CD)	miczn griwsa	19 5182 (Part fl)	190 1 162	BELIEF-SEG
	Particulate Watter (=(Dom))	mino gmino	IS 0102 Par (23) (0)	100.9A HR.	211
5	Parienau Milian (~2.00m)	Lanting graphs	G 6182 (PT 24) 2000 (/1)	DO 24 HR:	101
	Scattoner Discordo (802)	String proper	(S: 5182 (Part 2) (D)	80 24 HR	7.2

DID.

Report Verified By

Head Diffipe.

For Mitra S. K. Private Limited

Address of Laboratory :

Huilding top F- 41. Ubuyan equal of Estine 3. Pagoutanga Risid Koyasa Yusuri Vivet Berg# TH +91 F341035130 Limited to Black of the Later.







ULK, TC-89500400000000000

South MANGEMENT

Name & Address of Customer :

Tella Steel Liu (NGN) Jode West

At/Po - John Dill - Aborytor, Olisha - 755034 (total

TEST REPORT

Report Nu. :

Date:

Sample No.:

Date of receipt of camples Date(s) of performance

Location of performance of

Reference No. & Plate

Discipline:

MAKPUED 7004 75 LMASS.

GE104/2024

MSKNB/EDI207.524/03/KM45/0

30012024

MHD3/2024 - 00/04/2024

semanent Facility

1000156017/056 Date - 15/09/0073

Chemical

aby exectly that the following sample Drawn by ut had path analyzed with the following manus-

He receive clothly that the following signals Drawn by its near your way, or 1. Group 2. Description of swimple	Amterial Arr
Unique committation of sample(if any) Oats of sampling Place of sampling	Page O-Guary Science (M:NMI) 1) Temperature: 18-34 deg C 2) Belometric Pressure: 707 mm of Hg 3) Plain tall
Environmental conditions during sampling & Transport	tig a Cod Chan Martaned a 5152-7-11 13 a dEEP*
Sampling Plan & Mirthod used Sampling Plan & Mirthod used Sampling by MSs. Find Equipments Used	Markey 10 Martin

Report No. MAKPL/ED/2024-25-LMAS/L

Sample No.: MSKNB:ED/2023-24/23/MIS74

RESULT

hemical				Charle .	Result
St No.	Paramater	MOD	Mespod	Limit	261.11
20.7111	and the second second	ins/m3	USEPA 1034 June	E (Annual)	BOTIDE 1 0
1	Animal se (As)		IS 5182 (Part 11)	3 (AAmual)	POLOL42
2	Balgens	men gram)		1 (AAngall)	BDL/DL05
2	Markettillyate	ng(m)	15 513G (FW) 12		0.02
8	Sept (pe Pb)	माध्यम् कुर्वश्राच्ये	USEPA-ICI 3 4, Jupe	1 (2419049)	
	Mariganese us Mh	Emilia Games	MEEPA-IO 3 A June	Not Specified	G 47
6	Neset at 14	rigire3	UBERALIQ 3.4 Aum	10 (Anyual)	BOUDL 1-0

Odinion.

Limit as per CPCB relations to the Desti. 18th November 2009, for Ambent or makey

Statement of Conformity

- END-

Innovated by

Transfers Charles

Emmission Survey

The property of the property o

Head Office:

Page Left



Address of Branch:

P.O. Bartal Dt Neokher Dress 759 00%



TEST REPORT

Name & Address of Customer:

Tata Steel Ltd (MGM), Noth West

At Po: Jose Oks. - Keppitar Oktabe - 758834 India Ph

Report No. :

Sample No. 1

Reference No. & Date

MSKGL/ED/2024-25/000014

ECUDAV2/02A

MSKGL/ED0023-24/03/01/19

\$000106017/056 Date 16/09/2023

We have by careful that the tribaning sample Drawn by us has been analyzed with the following resture:

A Material	AFI
1, Group	Andrient Air
2. Description of sample	Joda West fron & New Menus (JWHMA)
3. Unique laentification of summirell any	28/00/2024
4. Date of sampling	- Park Control of the
5. Mart of symphism	Name Di-County Scoom (JWWW)
6. Environmental accordance guring sampling & Transport	Glynn & Swiny
7 Sampling Plan & Method used	NA .

Report No.: MSKGULDQRQ4-25000014

Sample No. : MSK8L/ED/2023-24/03/01119

RESULT

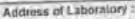
enlysis Result of Ambient Air						
St No.	Paramillar	MOM	Method	Limit	Result	
an President	America (NPO)	marc univid	(\$5)62 (Part 25)	400 24 HR	16.5	
3 1	Caution Monocuse (CO)	Corpora	BE 5182 (Part 10)_(O)	2 MHR.	0.50	
7	Mirroget Diceide (NO2)	rotteo gravma	(S. 0108 (Feb 10, 42)	8024HR	22.0	
-	Ozma (Oil	more grows	10.5182 (First 90	38II 1 HR.	BDI (DI:20.0	
- 0	Parinous Matter (Certing around	IS: 5162 (Peri 28), [O]	100 24 HR.	212	
3	Hancuale World (SZdum)	many grades	16 5 482 (PT-04)-X114 (0)	68.24 HR	101	
	Sulph a Disside (BO2)	China manus	(8: 511/2 (Part 2), (1))	88 24 HR.	7.5	

- END

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory



Enidong No. P. ET Catagon Industrial Equals 2 Pagradanya Rouse Rosson 700014 West Bergal Tel +91 7044005120 Einst udbysmab@marask.com





Scan for Portal

DUST: TO GREENWASSOCKERS

See NO MARKET WITH

Name & Address of Customer:

THE SUN LIS INSMITTAGE WITH

MIPO audi Dist - Reproper celesia - TARQOA India

TEST REPORT

Report No ..

Date:

Sample No.:

Date of receipt of exemple.

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

ALSKPL/ED/2024 CS/UKS829

10/04/2024

MINNBED/2023-24/03/MANIM

38/05/202W

3/03/2004 / SE/54/2024

Famoren Family

3000156017/056, Date (16/09/2023)

estly that the following sample Drawn by Us bas been averyond with the hotelining results

the control of the first of the second of th	Acquiptions Partition
1 Group	Arthett Az
Descriptional antiple	/ NA
, Unique Minnification of sumplerif any)	3803334
Copy of sampling	Taxar D. Dinary Spring Yard, (JAMM)
5. Flack of sampling	1) Temperature: 18-34 deg C 2) Baromatos Pressure: 707 mm of rig at reast tem-
6. Environmental conditions during sampling & Treesport	No & Calo Chan Mentained
7. Sumpling Plan & Method useri	(5.5107()*-11,12) & ((5) PA
O. Identification of the personnel performing serving by MSK	Ponkaj Kr Mahanti
a Family Fundamental Danil	MSKRE PULCHOSA

Report No.: MSIGPLEDISSA 25/3X5528

Sample No.: MSKNB@D/2023-24/03/1A45/IT-

RESULT

Chemical					
Bi No.	Pacumular	MON	Method.	Limit	Result
41 He .	Among as (As)	rolm1	USEPAIG 3.4 June	6 (Annual)	EDUDL'10)
1	Ranzana	milya ahrima	(5:5152 (Part 11)	5 (Annual)	BDLGLAZI
7	Benzous/Vonno	cgm2	15 5187 (PWr 12)	1 (Atmuil)	EDLIDLO 5
3	Lasting Pti (micro priving	LISEPARD 14 JUNE	1 (24 Hours)	BOL/D: 0.01
-	Managese as Min	micro smarth	USEPARD 74 Aum	niot Specified	0.10
5	Nickel as No	ngind:	USEPAID 24 Jule	25 (Almual)	BULIOLSE

Optinion :

Limit as our CPCB notification have Detry 18th November 2009 for Ambert or quarry

Statement of Cordonnity

END

Activities Statistics

Lat Statutgii

The count profession of the best better the country of the part of

The transport of the self-bit of the self-bit

Head Office Office of the Taylor of the Section of the Inches

Page 1 of 1



P.O. Barbil Cl. Vaccijnin Drsea 756 ti36

Name & Address of Customer

AbPo. - Jook, Cia. - Keenfrar Omha - 758034 Inda Pri

Fata Steel Ltd (WEM)_Jour West





Seas for Permi

TEST REPORT

Report No. :

Date:

MSKGL/ED/2024-25/000016

110042024

Sample No.

MSKGL/EDI2023-24/03/01118

Reference No. & Date :

3600150017/056, Date -15/09/0020

We havely couldy that the following exemple Drawn by us has been assigned with the following result:

1. Crossp	AR
2. Observation of sample	Aution At
3. Unique identification of sample(# sey)	Joda West Imm & Mr. Misser (3/47MM)
4. Daily of sampling	26/03/2624
2. Place of semaling	Name Chilliamy Sorting Vanit (LIVIIMM)
5. Environmental transministra in any summing & Transport	Clear & Burry
T. Sampling From & Method used	TUA

Report No. . NSKSDED/2024-25000016

Sample No. : MSKGL/ED/2929-24/83/04118

RESULT

analysis Result of Ambient Air						
SING	Parameter	DIDM	Method	Limit	Reguli	
-1	Americana (NR45)	microgramia.	(8/6/62 (Part 25)	400 24 198	14.6	
2	Carbon Monaride (CO)	Company	15: tri82 (Part 10) (O)	2 8HR.	0.43	
1	Nitingen Dioxide (NCV)	macro gravas	(S. C. (SZ. (Fant. 6)_ (U)	80 24 HH.	22.0	
4	Ozone (D3)	Criticing original	(B:6182 (Part 9)	180 THR.	DC# (DL/20-0	
B 1	Pancusiii Minir (<10un)	Conformation in the control of	(S: 5167 (Pin 23)_(O)	100 24 HR	210	
6	Parkpage Motter (42 from)	masymme	(a)	RD 24 HR	103	
7	Supplier Disorde (SO2)	mewgm/m3	(S: 5182 (Part 7)_(0)	60 24 HR.	7.5	

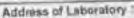
-FMD-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

to at 33 emission (2000) 765 A.J.C. Store Reed, Kokuto (2001), Weet Second, India, in 33 emission (2000) 700 - 01 (0.22000) 6



Statisting No. P. 45. Artegor industrial S. 5. Paylade by hours it work 155016 West Flescraft Tel +81 704/055128 Email umayancac/ffmitrass.com





Scan for Penal

или гонакоминий/края

Brichis Mary Course

Name & Address of Customer:

Talls Stirre Ltd (MCN) Joda West

AtiPs - Jode Dat - Aporpor Cooks - Photos House

TEST REPORT

Report No. :

Date :

Sample No.

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date |

Discipline:

MSKPL/ED/2024-25/9KX120

(00/04/2024)

M5KNB/ECI/7023-74/03/90459J

34/03/2004

10/03/2024 - 06/04/2024

Permanent Facility

(pg)55017/066 Date - 1809/2072

Chimical

the tritedy certify that the following sample Drawn by will have been employed with the fallowing results

1 Group	Acre peners Polision
2. Convenience of summile	Arthient Fir
Unique identification of sample(d day)	NA
6. Date of sampling	28032024
9. Place of sampling	Ninar Time Office. (JWIMM)
6. Environmental conditions during sempling & framepoint	1) Temperature: 18-34 dag C 31 Banometric Pressure: 707 min of Hig 3) Pain No. 5 Cold Chain Machained
1 Sampling Pran & Method used	13.5162(F-1).12.6.(ISEPA
Sentification of the personnel performing sampling by MER 2. Field Equipments Used	Market CHCS-2

Report No. : MSKP_EDIDO24-28/96X526

Sample No.: MSKNB/ED/2023-24/03/904592

RESULT

Chemical					
SI No.	Parameter	HOM	Method	Limit	Result
4	Arsent as (Ac)	medž	USEPAID 3 A June	6(Anhual)	BOLIDE
4	Benzece	morp grows	IS 5182 (Part 11)	5 (Annual)	BOUDL42
2	Purzuoi/Pwene	nom3	65 5412 (Part 19)	f (Annual)	BOLIDE 0.5
A	Lead (as Pb)	Emiraty prosent	USERA10 3 4 Julie	1 (24 mins)	BOL/DL 6:01
4	Manganese as Mn	revolution/m3	LISEPAND J.A. June	Nat Specified	0.22
0	Suckel as No	down	LISENANO 3 4 June	20 (Artitud)	BOLOL50

Opinian:

Limit as per CPCB notification. New Dutts. 18th November 2009 In: Amount or duality

Statement of Conformity

一 正规的一

Exemples Chemist **Illingsteam**

The first Meyers Must have been been supported by the property of the property of the first Meyers Must be the first Meyers Must be the first Meyers Must be the first Meyers for the first Meyers for

The result of part of the contract of the cont

First and the or West and Tolk /or

Page 7 of 1

At Po. Jose, Dat - Keonina, Odera - 199034 India Phi



P.O. Barbi Di Keorafasi Orlesa 759 015

Name & Address of Dustomer:

Tata Sheet CIT. (MISN) Journ West





Scat for Fresid.

TEST REPORT

Report No. :

MSKGL/CD/2024-25/0002107

Date:

/0/45412024

Sample No. :

MSKGLAED/2023-24/03/01/17

Reference No. & Date :

2000166017/058 Dete -15/09/2023

We nomby carry that the following carryse Drewn by us has been analysisd with the following result:

1. Draup	AIR
2. Description of sample	Ambient Air
3. Unique Identification of sample(if may)	Joda West Iron & Mr. Misso (399MM)
A. Date of sarepiling	25/09/2004
s. Proce of sampling	Mase Time Office (JAMMI)
6. Environmental conditions staring sampling & Transport	Cloud Suvry
7. Samueling Plan & Method used	NA.

Report No. 1 MSKGL/ED/2/(2/12/9000010

Sample No. : MSKGL/ED/2023-24/09/01117

RESULT

mulysis Result of Ambient Air						
≅ Hio.	Parameter	UOW	aleshuo.	A.limit	Result	
1	Ammania IMH3)	Fm/mg grane	is 8182 (Puri 25)	400 24 HR	19.7	
9	Carpon Monoride (CO)	inglind	(5: 5982 (Pad 18)_(D)	2 000	0.57	
9	Neopin Diordo (NOZ)	mino griving:	ay mitti (Part o), (G)	80 24 108.	23.6	
4	Oznne (CCI)	micro grand	E 2302 (Cart D)	180 t HR	SOL(31-20,0)	
	Pariculain Water (*10am)	micro grown	is piec (Piet 93) (O)	100 24 HR	224	
ō.	transparation Manual 4-52, county	menu grama	48 3 Mar (PT-54),0010_(0)	60 24 HR	110	
7	Salmer Disease (BOS)	imitra (milina)	(S-5187 (Peri 7)_(0)	80 24 HR.	1.2	

--- END ----

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Address of Branch :

P.O. Septil Ex Knowphan Cossa 759 035





Semples Perul

Name & Address of Customer:

Tata Stori Litz (MGM)_Jitzla West

AniPo. - Joda Dini, - Reoritur, Odisha - 758034 India Pin

TEST REPORT

Report No.:

Date

Sample No.: Reference No. & Date : 291/2/2024

MSHI3L/ETX2023-24/0900619

MSKGE/ED/2023-24/005517

3000108017/056, Dido - (500000)

Me hardly carely that the lakewing murple Drawn by its has been analyzed with the following results.

I, Group 2. Osseription of sample	AIR
S. Unique Edunification of assupple(if see)	Fugitive Air
5 Deto pi sampling	Joseph Prints From & Mr. Maries (JW/MMI)
5 Phace of sumpling	20/03/2024
triving a fall confident divisit sampling & Transport	Out of Group Plant (IWHW)
Sanning Plant, stational part	Class & Stemy
Sentand Park & Markey (1994)	NA .

Report No.: MSKG-//D00023-24/M66817

Sample No. : MSKGL/ED/2023-24/03/03619

RESULT

SI No.	Parameter	LION .	Method	17/2	1
1	Filtrogal) Dissedre (mi ND2)	michi dalam)		Lina	Result
2	PANINFIPA	mium growing	(5:5152 (Part 6) (0)		24.2
3	PN2.5	to an extraction with	S-5116: Part 21:3005 (Reaff, 2013) (D)		251
4	Respirable Suspender Perticulate Matter (RSPM)	IMPO GINIO	(E 5182 (Part 24)		124
3	Solphur Dineide pas SG(2)	more grance	IS SHE Part 2 (D)		251
W.	Surpended Parliculate Matter (SPM)	Entire prave	THYWENENV(AP)(04/01 Issue no-lin Issue Data April (III, 2018		448

- END -

Report Vantied By

Head Office:



For Mitra S. K. Private Limited

Address of Branch:

P.O. Bartil DJ Knonitht Cross 758 (dp.





Scin les Fortil

Name & Aridress of Customer:

Tette Steel LNI (MGM) Jame Weint

AtiPic - Jode, Olst - Kesemer, Oristia - 755034 Inch Per

TEST REPORT

Report No :

Date:

Sample No.: Reference No. & Date : #ISKGL/ED/2023-24005616 #SIUW2024

- DIOGRAM

MSKGL/ED/2021-24/03/00816

3000156017/056, Date - 1/4/9/01/23

We hereby certify met the following sample Drawn by us has been analyzed with the following presum:

1. Group	AIR
2. Description of sample	Figitiva Air
If tinique identification of sample/if any)	The state of the s
4. Date of sampling	Joča West Imo & Nr. Mines (JWMM)
A Flore el sampling	20/03/2024
n. s. retrommental are a does during campling a Transport	Gungelgodo Pri J.Mirkey
T. Samuellas Pro- A transport	Clear & Europy
T. Sampling Plan & Minthey used	NA .

Report No.: MSKGLIED/9023-24/005016

Sample No.: MSKGLIED/2023-24/B3/00818

RESULT

SINO.	Parameter	liou	The state of the s		
3	Nimpan Doisday (28 NO2)		Method	Limit	Result
2	PMINRPM	area desert	IS: 5182 (Fat 6) (O)		22.8
2	PM2.5	mana group)	5 5152 Put 21,2006 (Huntt: 2012), (0)		266
	Rasperatrie Suspenderi Particulate Manny	ners smina	IS 5182 (P91.24)		129
-	IRSPMI	mide grows	5-5182 Part 23/2006 (Real 2011) (0)		266
3	Sulpher bloode (as at A)	micro-provint	48-5182; Part 2, (0)		-
п	Suspended Particulate Master (SPM)	trino grillino	THINMSKIENV(AP)/OUR! ISSUE NO. (1) ISSUE Diss. April 02 2/018		BA 504

-- EMD --

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Sharat-Corne (Sel Flori), F4R A.J.C. Base Food, Joseph. (00016, Wolf Bergal India Tel. 1913) «Oxform (2010) (000) (or 1813) (000) (or 1813) Cress / programme and Oxford (when others)

Page Lait

STARTECH LABS PVT. LTD.

2" Floor, SMR Chembers, N.No.: 1-56/7, Medinelpuda, Hydraubad - 500 050, T.S., TYCRA, Tel. +91-40 23041900, 23041905, 40215094 E-mail, reghavendre y@sterlechlabs.com







D. Comments	Test Repor	1	
Name of the Industry Address	TATA Steel Limited Mn Group of Mines JOLIA, Odispa- India Name of the Mines Joda West Iron & Mn Mines Through:	Date of Monitoring Sample Received on Date of Reporting Report No.	27/03/2024 30/03/2024 06/04/2024 STL/IIH/C30/062/24
	Mitra SK Pw Lto AT/PO-Bavoil Barbir – Keenmor- 758035 mula	Standard Lin Respirable Dust 3 mg// Content is < 5 %	nit (DGMS) III If Free Silica

Sampler Details	Method of Analysis	Sampling	Sampling
SKC Make Sideklok Pump Sr. No.	(ST/IH/IGTP 001-05)	Flow Rate	Time
22553363, 22553359, 22553180	Respirable Dust : NIOSH 600	2.2 lpm	481 to 487
22553181 & 22553360	Free Silica : NIOSH 7602		Mints

S.	Date	Location / Sample ID	Activity	Employee Name, Designation & Employee 10	Equipment ID	Respirable Dust (mg/m³)	Respirable Dust TWA (mg/m³)	Free Silier Content
T		Sorting yard	Foreman	Mr. Subash Topno (196144)	+	2.03	2.05	(%) N.D
+0		Dumping yard \$1-130	Tipper Operator	Mr. Sarjan Kelai (TSP/970691/1) 23)	Tipper OD09K8642	2:52	2.55	N,D
3	March 2024	H-Quarry main gate \$1-140	Security	Mr. Ranjii Bodra (TSP/109645/0124)	- 1	2,65	2 68	N.D
a		Oangaiguita Pit batting yard \$1-141	Worker	Mr. Ranjan Munda (TSP/072881/0124)		2:13	2.18	N.D
5-		D-Quarry Surling yard ST-142 I Condition Tempe	Supervisor	Mr. Rijaykumur Das (TSP/988/60/123)		=,50	2.56	N.D

Environmental Condition Temperature - (4.6 T & R4) - More than 80 %, Il freezion (Level - 0.0005 %) N. D.; Not Detected

CONCLUSION: From the above results it can be concluded that Respirable Dust I WA results for all the Personal samples are within the prescribed limit as per DGMS guidelines. Free Silica Content is not detected in all five samples.

	Compiled By	Authorised By	
Name	S. Nagaraju	Y. Raghavendra Char	
Signature	S. Ayani	VB1	
Date	coloniany sino	06/04/2024	

Format No.: ST/IH G 001-T-27-02. Effective Dates

STARTECH LABS PVT. LTD.

2th Floor, SMR Chambers, H.No.: 1-56/7, Manineg Ma, Hyderabad 500 050, T.S., INCAS. El. +61-40-23041900, 23041905, 40215094 E-mail rachavandra y@startochlabs.com





NIOSH 7602



N .		Test Report				
Name of the in		mited	Date of Mor	nitorino	23/03/2024	
	Mn Group of	Mines JODA, Odjsha-	Sample Rei	the state of the s	30/03/2024	
	40.1146.64	Name of the Mine: Khontond Iron &		orting	06/04/2024 STL/IH/C30/061/24	
Address	Mn Mines,	mues emoliticand little &	Report No.			
Address Through: Mitra SK Pvt Li AT/PO-Barbii Barbii – Keonji India.		and the same of th	Respirable i Content is s	andard Lim Dust 3 mg/n 5 %	it (DGMS)	
Sampler Details SKC Make Sidekick Pump St. No. 22553363, 22553359, 22553180, 22553360		Method of An	alvsis	Samplin	g Sampling	
		(ST/IH/GTP to Respirable Dust ; N	77-05)	Flow Ra	5704- IDE	

o.	Date	Location / Sample ID	Activity	Employee Name, Designation & Employee 1D	Equipment 10	Respirable Dust (mg/m²)	Respirable Dust TWA	Free Silica Content (%)
1		Siming yard \$1 133	Supervisor	Ms. Deanty Naik (TSP/912168/1023)	11-	2.58	(mg/m²) 2,59	0.0007
		Khonoond Mn mines Surring yard \$7-134	gisbassizin	Mr. Kirtimgum, tenk (TSP/912314/1023)	1=	2.14	2.16	N.D.
	23th March	Khonbornt Mn mines Sorting yard 57-135	Worker	Mr Ramash Singh (TSP/012204/2023)		2.22	2.22	N.D
	3004	String yard \$7-136		Mr. Bhimeson Nag (TSP/886Wi6/1023)	Dumper OE091/5269	2.84	2.85	N.D.
	Streaming Plant Area / ST-137	Tipper Operator	Mr. Tribolius Pinta (TSP-912398/1023)	Гірреі ОДО97/6469	2.06	2.08	ND	

Environmental Conflictions Lengarature 21.7 St. A. 181 - Store than co % plateation Level = 0.0005 % N. D. Nat Elebected CONCI DISION: From the above results it can be concluded that Respirable Dust TWA results for all the Personal samples are within the prescribed limit as per DGMS guidelines. Free Silica Coment is detected in one sample but within the limit.

-	Compiled By	Authorised By	
Name	S. Nagaraju	Y. Raghavendra Char	
Signature	Sudyany	Pa	
Date	06/04/2024	06/04/2024	

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Elenger

Tel 1+91 7044036120

Email: udayanlab@miliask.com





Scan for Portal

ULR: TC-6950248000002263F

blockic/ Makkanyinatri

TC-8950

Name & Address of Customer:

Tata Sinel Lid (MGM) Joda West

AUPs, - Joda, Dist. - Keonjiher. Odisha - 758034. India

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

M5KPL/ED/2023-24/312791

12/02/2024

MSKNB/ED/2023-24/02/83G18K

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facility

3000156017/056; Date - 16/09/2023

Chemical

We hereby centify that the following stample Drewn by us has been analyzed with the following results:

1. Group	Almospheric Pallation
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	01/02/2024
5. Place of sampling	Near Time Office JWIMM
6. Environmental conditions during sampling & Transport	Temperature :10-28 deg C 2) Renometric Pressure: 712 mm of Hg 3) Rein fail No & Gold Chain Maintained
7. Sampling Plan & Method used	(S:5162(P-11,12) & USEPA
identification of the personnel performing sampling by MSK	Akash Kumar Setty
9. Flaid Equipments Used	MSK/BBLIFIELD/RDS-2

Report No.: MSKPL/ED/2023-24/312791

Sample No. : MSKNB/ED/2023-24/02/63/G18K

RESULT

Chemical					
SI Wa.	Parameter	MOU	Method	Limit	Result
1	Arsenic se (As)	ng/m3	USEPA-IO 3.4, June	5 (Apriust)	BDL(C). (1.0)
2	Senzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4.3)
3	Bertzoja)Pyrene	Emign	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)
4	Lend (as Pb.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02
5	Manganese as Mn	Initro grains	USEPA IO 3.4; Jung	Not Specified	0.49
6	Nickel as N	ng/m3	USEPA-IO 3.4, June	20 (Annual)	8.5

Opinion:

Lintt as per CPCB notification, New Defit, 18th Nevember 2009, for Ambient air quality

Statement of Conformity NA.

END

Name and By

Mill. Pluf Garnaly.

Dresignation

Extraine Operate

Authorized Signatory

Sound

Desgration

The residue and the or by to the surrous Assured

This Ties Report shall not be reportationd except in Fig. is along the permission of Many S. K. Private Language for 15 days from the third of sources (in Fig. 1) the Permission Section and Private Permission Associated Associated

The preserved part of surrounds for chemical applying (Shif, Solid & Liquie Washe) and be reserved by 15 days to one CPCS guidance & Mart 1 trends from the case of issues of the Responsible part of surrounds in the State of su

Shadel Carrie (Str Floor), 749, A.J.C. Boss Road, Kolluta - 700010, West tierros, https://doi.org/10.0001/20000007 Fax: 31.53.22550000. Total: arts@misses.com/yesteste.com/yestestes.com/ Head Office:



Address of Branch :

P.O. Barbil Dt Keoniter Orises 758 f035





Name & Address of Customer :

Teta Stee Ltd.(MGM) Joda West

AtPo, - Joss, Dist. - Kecopar, Odsha - 758034 India Pin

TEST REPORT

Reference No. & Date :

Report No. :

Date :

MSKC2/ED/2023-24/004786

13/02/2024

Sample No. 7

MBKGL/ED/2023-24/02/00/02/

30001n6017/056, Date - 15/09/2023

We namely cardly that the Edowing sample Drewn by us has been analyzed with the following results:

1, Group	AJR
2. Description of sample	Ambient Air
5. Limigue Identification of sample(if any)	Joda West Iron & Mr. Mines JWMM
4. Diate of sampling	01/05/2024
5. Place of sampling	Noar Time Office JWIMM
6. Environmental conditions during sampling & Transport	Clear & Scienty
7. Sampling Plan & Method used	NA

Report No.: MSKGL/ED/2023-24/004786

Sample No.: MSKGL/ED/2023-24/02/00021

RESULT

analysis i	nalysis Result of Ambient Air						
St No.	Parameter	UCM	Method	Limit	Result		
1	Ammonia (NFG)	maro gm/m3	15 5182 (Part 25)	400 24 HR.	15.6		
2	Carbon Monorede (CO)	Emigen	1S 5182 : Plut 10 :1999 (Realf.2014) (NDR) (D)	2.8140	0.40		
31.	Nitrogen Dioxide (NO2)	miero gmim3	IS 5182 : Part 6:2008 (Reaff 2012) _(D)	80 24 HR.	19.7		
4	Ozone (O3)	mitto grn/m3	85 5182 (Part 9)	180 1 HR	BDL(DL:20.0)		
4	Particulate Matter (<10um)	micro gm/m3.	IS 5182: Part 23:2006 (Rould: 2012) (O)	100 24 HR.	180		
6	Particulate (<2.5um)	Emirag croim	IS S182 (FT-24),2019 (O)	60.24 HR	977		
7	Sulphur Dioxide (SO2)	Emirry ordina	(5 5162 : Part 2 3001 (RestL2012) (O)	86 24 HR	8.0		

- END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate: J. Pagladangs Road, flokats 700015

Wint Bengal

Tel ...+917044036120 Email: udayeniao@mtrass.com





Scan for Portal

ULR: TC-69502400000/2264F

Die No.: MERCENVISKT

TESTING-WERECTION

TC-8950

Name & Address of Customer:

Tale Steel Ltd. (MGM)_Joda West

AliPo - Joda Dist - Keonjhar Odaha - 758034 India

TEST REPORT

Report No.:

Date:

Sample No. :

MSKNB/ED/2023-24/02/E7517D

03/02/2024 Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

03/02/2024 - 12/02/2024 Fermaneni Facility

MSKPL/ED/2023-24/912AAK

3000156017/056, Date - 16/09/2023

Chermical

12/02/2024

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution	
2. Description of sample	Ambient Air	
Unique Identification of sample(if any)	NA.	
4. Date of sampling	01/02/2024	
5. Place of sampling	Near D-Quarry Sorting Yard JWIMM	
5. Environmental conditions during asymptotic & Transport	Temperature :10-28 dog C 2) Barometrik: Pressure: 712 mm of Hg 3) Rain fall No & Cold Chain Maintained	
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA	
6. Identification of the personnel performing sampling by MSK	Akash Kumar Satty	
9. Field Equipments Used	MSK/BBL/FIELD/RDS-6	

Report No : MSKPL/ED/2023-24/912AAK Sample No.: MSKNB/ED/2023-24/02/E7517D

RESULT

Chemical Che						
\$1 No.	Parameter	NOM	Militad	Limit	Result	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	8DL(DL:1,0)	
2	Banzene	micro gw/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4.2)	
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 17)	1 (Annia)	BDL(DL:0.8)	
4	Lette (as Ph.)	micro gra/md	USEPA-IO 3.4, June	1 (24 Hours)	BOL(DL:0.01)	
5	Manganese us Mn	Em/mg cnoting	USEPA-IO 3.4: June	Not Specified	0.09	
6	Nickel as Ni	ng/m3	USEPA-IO 3.4. June	20 (Annual)	BDL(DL:5.0)	

Opinion 7

Limit as per CPCB notification, New Delhi, 18th November 2008, for Ambient air quality

Stallment of Conformity

NA

END

Signisser

FARTH

Mit. Prof. Complete

Designation. SHOURH CHANGE Scientifica Science V.

Agricum

Designature

Late of charge

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This Test Report shad not be reproduced except in fail, whicat the particulation of Minn S.J.C. Projets is insect.
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The reserved part of samples for Microbiological synthes (Mon-prentise) Foot, Sesses Water, Bossed Gold, shall be related to 15 days from the date of legal Centre.



P.O. Barbil Di Kaomhar Drissa 758 035





Scen for Portal

TEST REPORT

Reference No. & Date :

Sample No.:

Report No. : Name & Address of Customer:

Date: 13/02/2024

Tata Steel Ltd.(MGM)_Jode Weel

AtiPo. - Joda, Dist. - Keonikar, Odisha - 755034 India Pin

MSKGL/ED/2023-24/02/00025 3000156017/008; Date - 15/09/2023

MEKGL/ED/2023-24/004789

We hereby certify that the following sample Drawn by us has been enalyzed with the following results:

1, Group	AIR	
2. Coscription of sample	Arribient Air	
3. Unique Identification of sample(if any)	Jode West Iron & Mn. Mines JWHMM	
4. Date of sampling	01/02/2024	
5. Place of sampling	Near D-Quarry Sorting Yard JWIMM	
6. Environmental conditions theirty sampling & Transport	Clear & Sunny	
7. Sampling Plan & Method used	NA NA	

Report No.: MSKGL/ED/2023-24/004789

Sample No.: MSKGL/ED/2/23-24/02/00022

RESULT

Anadysis f	nalysis Result of Ambient Air						
Si No.	Paramoter	HOM	Mailed	Limit	Result		
1	Ammonia (NH3)	micm gm/m3	IS-5182 (Pert 25)	100 24 HR.	14.3		
2	Carbon Manoxida (OD)	Ea/ga	(S 5162 : Port 10 :1969 (Reelf, 2014) (NOR) _(C)	2 BHR	0.56		
3	Nitrogen Dioxide (NO2).	micro groins	[S 5182 : Part 6 : 2006 (Roaff, 2012) _(O)	80 24 HR.	20.6		
4	Ozone (CO)	micro grotm3	15 5182 (Part 9)	180 T HR.	BDL(DL:20.0)		
5	Particulate Matter (<10um)	micro gm/m3	(S 5182: Part 23 2006 (Realf, 2012)_(O)	100 24 HR.	174		
6	Particulate Matter (<2.5cm)	micro gm/m3	IS 5182 (PT-24),2019_(O)	60 24 HR.	81		
7	Sulphur Dioxide (BO2)	Emising-onsim3	IS 5182 : Pari 2: 2001 (Real 2012) _(0)	80 24 HR	7.6		

-END -

Report Verified By

For Mitra S, K. Private Limited

Authorised Signatory

Drawn Corps (do: Flory), SAR, A.J.C. Rose Road, Robbins, THRESE West Roads and Titl., by 30 Africanol. (2008) Sar | 45 30 32 9000000. Exam info@missed.com/Websits/ server-setted.com/ Hand Office:

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladangs Road, Kolkala 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com





MSKPL/ED/2023-24/112AAD

MSKNB/ED/2023-24/02/k7F157



ULR: TC-695024000002205F

DECMS. MERCEPHISHT

TESTING . HEFECTION

TC-6950

Name & Address of Customer:

Teta Steel Lid (MGM)_Joda West

AVPa - Joda, Dist - Keoninar, Odisna - 756034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

12/02/2024

03/02/2024

3000156017/056; Date - 15/08/2023

03/02/2024 - 12/02/2024

Permanent Facility

Chemical

We hereby certify that the following sample Drawn by us has been enalyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique (destification of sample(If any)	NA NA
4. Date of sampling	01/02/2/024
5. Place of sampling	Near D-Quarry Screen JWMMI
6. Environmental conditions during sampling & Transport	 Temperature: 10-28 deg C 2) Barometric Pressure: 712 mm of Hg 3) Rain fail No & Cold Chain Maintained
7. Sampling Plan & Method used	(8:5182(P-11,12) & USEPA
5. Identification of the personnel performing sampling by MSK	Akash Kumar Setty
9. Field Equipments Used	MSK/BBL/FIELD/RDS-8

Report No.: MSKPL/ED/2023/24/112AAD

Sample No.: MSKNB/ED/2023-24/02/K7F157

RESULT

Chemical					
5) No.	Paritovisi	MON	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL/1.0)
2	Benzons	micro gra/nd	15 5182 (Part 11)	5 (Annual)	BDE(DL:4.2)
3	Berizo(a)Pyrane	ng/m3	65 5 (82 (Fad 17)	1 (Annual)	BDL(DL:0.5)
4	Lead (so Ptr)	micro gra/m3	USEPA-JO 3,4, June	1 (24 Hours)	0.04
5	Manganase es Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.18
ū	Nickel as hi	Cm/gn	USEPA-ID 3.4, June	20 (Annual)	8DL(DL:5.0)

Opinion

Limit as per CPCB notification. New Dellie, 18th November 2009, for Ambient air quality

Statement of Conformity NA

END

Heymyou Sy

Signature

D-storoldrine Executive Observial Authoritish Sciences

Signature

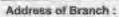
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The reserved part of surpties for the Sod Spice & Legic Wilder South Spice Food. Sealed Wilder South State Secretaries for 15 days from the date of loads of the Test Sepont.



P.O. Baroli Dt Knorijner Orisan 758 855





TEST REPORT

Reference No. & Date :

Sample No. 1

Name & Address of Customer : Report No. :

Date :

Total Stinet List (MGM) Jods West

13/02/2024

Ai/Po. - Jodn. Cipi. - Kvorijiw. Odisha - 758034. India Pin

MSKGL/ED/2023-24/02/00023 3000156017/056, Date - 15/09/2023

MSKGL/ED/2023-24/004790

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	AIR
2. Description of sample	Antiset Air
3. Unique Identification of sample(if any)	Joda West from & Mr. Milnes JWIMM
4. Date of sampling	01/02/2024
5. Place of sampling	Neer D-Querry Screen JWIMM
8. Environmental conditions during sampling & Transport	Clear & Sunny
7. Sampling Plan & Method used	NA NA

Report No.: MSKGUED/2023-24/004790

Sample No.: MSKGL/ED/2023-24/02/00023

RESULT

Analysis I	natysis Result of Ambient Air						
SI No.	Facemeter	DOM	Method	Limi	Result		
1	Amenonia (MH3)	micro-gré/m3	15 5182 (Part 25)	400 24 HR.	17.2		
2	Carbon Monowide (CO)	mg/m3	IS 5182 : Part 10 :1999 (Realf.2014) (NDIR) (O)	2 8HR.	0.44		
3	Nitrogen Dioxide (NO2)	micro gtr/m3.	iS 5182 : Parl 6 :2006 (Rouff 2012) _(D)	BD 24 HFL	19.6		
4	Ozione (O3)	micro gin/ro3	15:5182 (Part 9)	180 1 HFL	BDL(DL-20.0)		
- 5	Particulate Matter (<10an)	micro gm/m3	(8 5182: Part 23:2006 (Realf, 2012)_(0)	100 24 HA	136		
Ti I	Particulate Watter (<2.5um)	micro gmin3.	IS \$182 (PT-24),2019 (O)	00,24 HFL	64		
7	Sulphur Dioxide (SO2)	micro gmim3	18 5182 Part 2 (2001 (Result (2012) (O)	80 24 HR.	6.6		

END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel:: +91 7044036120 Email: udeyanlab@mirask.com





ULR: TC-695024000002266F

INVINCEMENTS OF THE PARTY OF TH

LESTING WINSPECTIO



Name & Address of Customer:

Tata Stee Ltd.(MSM)_Joda Weel

AliPo: - Joda, Dist. - Keonihar, Odisha - 758034 India

TEST REPORT

Report No. 1

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/N12AB1

12/02/2024

MSKNB/ED/2023-24/02/LD319W

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facury

3000156017/055; Date - 15/09/2023

Chemical

We hareby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
Unique Identification of sample(if any)	NA .		
4. Date of sampling	01/02/2024		
5. Place of sampling	Near H-Quarry Rest Sheltor JWMM		
6. Environmental conditions during sampling & Transport	1) Temperature :10-28 deg C 2) Burometric Pressure: 712 mm of Hg 3) Rah fall: No & Cold Chain Meintained		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
8. Identification of the personnel performing sampling by MSK	Akash Kumar Setty		
9. Field Equipments Used	MSK/BBL/FIELD/ROS-1		

Report No.: MSKPL/ED/2023-24/N12AB1 Sample No.: MSKN8/E0/2023-24/02/LD319W

RESULT

Chemical	hemical					
51 No.	Fortmette	UOW	Method	Limit	Residt	
1	Arsenia as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annuali	BDL(DL-1.4)	
2	Denzena	micro gm/m3	18 5182 (Part 11)	5 (Annual)	8DL(DL:4.2)	
3	Hentm(#)Fyrene	ing/m3	IS 5162 (Part 12)	1 (Annual)	8DL(DL-0.5)	
0	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	T (24 Hours)	BOL(DL:0.01)	
5	Manganese as Mn	micro gm/m3	USEPARO 3.4: June	Not Specified	0.39	
6	Nickel as Ni	ng/m3	USEPA-IO 34, June	20 (Annual)	6.9	

Opinion T.

Limit as per GPCB notification, New Delhi, 18th November 2009, for Ambient er quality

Statement of Conformity

NA

END

FINAL POST SIL

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Excess Owner

National Squares

Signature

Descention

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At/Pa, Joda, Dist. - Keorghar, Odelin - 758034 India Ph.



P.O. Barbit Dt Keonjitur Crissa 758 035

Name & Address of Customer :

Teta Start List (MCM) Josta West





Semi for Portal

TEST REPORT

Report No.:

MSKGL/ED/2023-24/IXI4793

Date :

13/02/2024

Sample No. :

MSKGL/ED/2023-24/02/00024

Reference No. & Date :

3000156017/056, Date - 15/09/2022

We needly cardly that the following sample Drawn by us has been analyzed with the Ribowing results:

1, Group	AIR
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	Joda West iron & Mn. Minos JAMM
4. Date of sampling	01/02/2024
5. Place of sampling	Near H-Quarry Rest Shellor JWIMM
6. Environmental conditions during sampling & Transport	Clear & Sunny
7, Sampling Plan & Mathod used	NA .

Report No.; MSKGLIED/2023-24/00/793

Sample No.: MSKGL/ED/2023-24/02/00024

RESULT

column Darrolt of Ambient Air							
Parameter	LECON	Militad	Limit	Result			
Ammonia (NH3)	mioro gm/ris3	IS 5182 (Part 25)	400 34 HR.	BDL(DL:15J			
Caroon Monoxida (CCI)	mg/md	(8 5182 : Fart 10 :1999 (Redff.2014) (NOR), (D)	2 MH.	(1.88)			
Nitrogen Dioxide (NO2)	micro gmim3	IS 5182 - Part 6 -2005 (Real (2012) _(D)	80 24 HR	21.4			
Ozona (C3)	micro gmim3	15 5182 (Part 9)	180 1 HR.	BDL(DL:20.0			
Proticulate Matter (<10um)	micro gnim3	\$5 9162: Part 23 2006 (Read, 2012) (O)	100 24 HR.	201			
Particulare Matter (<2.5cm)	Emirro graimi	IB 5182 (PT-24),2019_(O)	60 24 HR	94			
Sulphur Dioxide (SO2)	micra gram3	IS 5182 : Part 2 :2001 (Reaft 2012) _(O)	80.24 HR.	12			
	Americia (NR3) Carcon Monocole (CO) Sittogen Dioxide (NO2) Ozone (CS) Protocoles Matter (<10mm) Particulare Matter (<2.5mm)	Parameter IJGM America (NH3) mioro gmini3 Carbon Monoxide (CO) mighti3 Sitrogan Dioxide (NO2) micro gmini3 Ozona (OS) micro gmini3 Particulare Matter (<10um) mioro gmini3 Particulare Matter (<2.5um) mioro gmini3	Parameter DOM Minthed	Parameter UOM Minthest Limit			

- END

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48, Lidayen Industrial Estate, 3, Pagiadanga Road, Kolkata 700015 West Bengal

Tel.:+917044036120 Email: udayanlab@mbrask.com







Scan for Portal

ULR: TC-6950240000002287F

Discribe: MANDGGMHG07

Name & Address of Customer:

Tata Steel (.10 (MGM)_Joda Wool

At/Po - loda, Dist. - Keonities, Odishe - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/212ABG

12/02/2024

MSKNB/ED/2023-24/02/LME16J

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Almospheric Poliution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA
4, Date of sampling	01/02/2024
5. Place of smopling	Near Railway Siding JWMMI
6. Environmental conditions during sampling & Transport	Temperature: 10-26 dag C 2) Barometric Pressure: 712 mm of Hg 3) Rain fall No 8, Cold Chain Maintained
7. Sampling Plan & Method used	(S:5182(P-11,12) & USEPA
B. Identification of the pareonnel performing sampling by MSK.	Akash Kumar Setty
B. Finid Equipments Used	MSK/BBL/FIELD/RDS-3

MSKPL/ED/2023-24/Z12ABG Report No.:

Sample No.: MSKNB/ED/2023-24/02/LME16J

RESULT

hemical						
STNo	Paramilier	DOM	Mathod	Limit	Fire vill	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, Juna	® (Annual)	BDL(DL:10)	
2	Benzene	micro gravm3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4,2)	
3	Sonzo(s)Pyréné	Emilgo	(S 5182 (Part 12)	'1 (Amnual)'	BDL(DL:0.5)	
4	Lead (as Pb.)	micro gravim3	USEPA IO 3 4, June	1 (24 Hours)	0.01	
6	Manganiese as Mr.	micro gen/m2	USEPA-IO 3.4: June	Not Specified	0.60	
6.	Nickel as Ni	ng/mili	USEPA40 3.4, June	20 (Annual)	11.0	

Opinion:

Limit as per CPCB notification, New Definit 18th November 2009, for Ambient air quality.

Stalament of Conformity

END

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Street & Centra (Str Floor), 745, A.J.C. Bose Fourt, Roberts - 7002411, Veni Resign, India Twi 91 33 451 43000 / 22660007 Fram 91 33 22500000

From Informations com Waterley was infreed com-

Address of Branch:

P.O. Burbil Di Keonjtub Drisss 756 035





Sean for Portal

Name & Address of Customer:

Talin Steel Ltd.(MGM) _locks West

At/Po. - Joda: Dist. - Keorghar, Odisha - 758004. India Pin

TEST REPORT

Report No. 7

Date :

Sample No. : Reference No. & Date : MSKGL/FD/2023-24/004788

13/02/2024

MSKGL/ED/2023-24/02/00025

3000156017/056, Date - 16/09/2023

We hamby could that the following sample Drawn by us has been newborld with the Edward sample.

1. Group	AIR	
Z. Description of sample	Ambient Air	_
Unique identification of sample(if any)	Joda Wast Iron & Mn. Mines JWMM	
4. Date of eampling	01/02/2024	
5. Place of sampling	Near Fuilway Siding JWIMM	
6. Environmental conditions during sampling & Transport	Clear & Sunny	
7. Sampling Plan & Method used	NA .	_

Report No.: MSKGUED/2023-24004788

Sample No.: MSKGL/ED/2023-24/02/00025

RESULT

SI No.	Partimeter	UCIM	Method	Limit	Result
1	Aramonia (NH3)	micro gravima	15 5182 (Part 25)	400 24 HR	16,4
2	Carbon Menovide (CO)	Enskynt	(S.5182 : Part 10 :1999 (Resit 2014) (NDR) (O)	2 BHR.	0.46
3	Nitrogan Dicode (NO2)	micro gm/m3	(S-5182 : Part 6 :2005 (Reaff.2012) _(O)	80 24 HR	.20.3
4	Ozone (O3)	Enling ordin	(\$ 5182 (Part 9)	180 1 HPL	BDL/DL 20.0
-5	Particulate Maltar (<10um)	iniono-gm/ini3	IS 5182: Part 23:2008 (Realf: 2012)_(D)	100 24 HFL	168
6	Particulate Matter (<2.5um)	midm gm/m3.	IS 5152 (PT-24),2019 (O)	60 24 193	78
7	Sulphur Dloxide (802)	micro govin3	IS 6182 - Part 2 (2001 (Real (2012) (D)	80 24 HFL	8.2

- END -

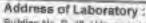
Report Verified By



For Mitra S. K. Private Limited

Drinke ABSING AHOUT





Building No. F. 48, Udayan industrial Estate. 3. Pagladanga Road, Kolkala 700015 West Bangal Tel: *91 7044036120 Email: udayanlab@mitrask.com





Scan for Portal

I/LR: TC-695024000002268F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Pg. - Joda, Dist. - Keormar, Ocisha - 758034 India

TEST REPORT

Report No.:

Date :

Sample No.:

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/E12AB3

12/02/2024

MSKNB/ED/2023-24/02/M8214Q

03/02/2024

03/02/2024 - 12/02/2024

Permanent Facility

3000156017/056, Date 15/05/2023

Chemical

We hereby cortily that the following sample Crawn by ull has been analyzed with the following results:

1. Group	
2. Description of sample	Almospheric Polluban
3. Unique Identification of sample(If any)	Ambient Air
4. Date of sampling	NA:
5. Place of sampling	01/02/2024
	Near Gengelguda Pit JWMMM
5. Environmental conditions during eampling & Transport	1) Temperature :10-28 deg C 2) Barometric Pressure: 713 eve of the 24 Eve Co.
. Sampling Plan & Method used	The Windows County at Birth and County Count
I Identification of the present and	(S.5182(P-11,12) & USEPA
I. Identification of the personnel performing sampling by MSK I. Field Equipments Used	Akash Kumm Setty
n. Proto Catalpinanas used	MSK/B8L/FIELD/RDS-4

Report No.: MSKPL/ED/2023-24/E12AB3

Sample No.: MSKNB/ED/2023-24/02/M82140

RESULT

Chemical					
BI Nin.	Paramidar	NOM	Muthod	Limit	1
1	Arsenic as (As)	ng/m3	USEFA-IO 5-4, June		Rasult
2	Denzana	micro gm/m3	IS 5182 (Part 11)	S (Annual)	BOL(DL1 II)
3	Benzo(s)Pyrene	ng/m3	IS 6182 (Part 12)	5 (Annum)	BDL(DL.4.Z)
4	Lead (as Pb)	micro gratin3		1 (Annyai)	BDL(DL:0.5)
5	Mangariese as Min		USEPA-IO 3.4, June	T (24 Hours)	0.02
		micro gm/m3	USEPARD 3.4: June	Not Specified	0.40
i nelniq	Nickel as Ni	ng/m3	USEPA-40 3.4, June	20 (Annual)	9.5

Limit so per CPOR nonlication, New Delhi, 18th November 2009, for Archient air quality

Statement of Conformity NA

END -

Hestman By:

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Executive Countries

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Page 1 of 9



P.O. Barba Dt Kackyhir Orissa 758 835





Scot for Portal

Name & Address of Customer :

Tela Steel Ltd (MGM) Joda West

AtPo. - Joda, Dist. - Keorgher, Odisha - 758034 Antin Priv

TEST REPORT

Report No.:

Date :

MSKGL/ED/2023-24/6/4794

15/00/2024

Sample No.:

MSKGL/ED/2023-24/02/00006

Reference No. & Date :

3000158017/056, Oate - 15/09/2023

We hereby certify that the following comple Diaws by us has been analyzed with the following results:

1. Group	AIFE	
2. Description of sample	Ambient Air	
Unique Identification of sample(if any)	Joda West Iron & Mr. Minzs JWMM	
4. Date of sampling	01/02/2024	
5. Place of sampling	Near Gargeigures Pt. JWIMM	
6. Environmental conditions during surrating & Transport	Clear & Sunny	
7. Sampling Plan 8. Method used	NA .	

Report No.: MSKGL/ED/2023-24/004794

Sample No.; MSKGL/ED/2023-24/02/00026

RESULT

tualysis Result of Ambient Air						
SI No.	Paramoter	DOM	Mathed	Limit	Result	
1 Ammonia (MH3)		imore groles	IS 5182 (Part 25)	400 24 HR	BOL(DL-10.0	
2	Carbon Minexide (CO)	mg/m3	(S 5182 ; Fwrt 10 :1999 (Reaff 2014) (ND(R) (O)	2 848	0.67	
3	Ninogen Digaria (NO2)	Enimp proint	IS 5182 : Part 6: 2008 (Realf-2012) (0)	90 24 HR.	19.3	
4	Ozone (Ož)	micro gravni3	IS 5182 (Part 9)	180 1 HR.	BDUDL:20:01	
5	Particulate Matter (<10mm)	micro gra/m3	S-5182 Part 23:2006 (Reut: 2012) (O)	100 24 HR	140	
6	Purocutate Matter (42, fam)	Imprognims	IS 5182 (PT-24),2019 (O)	60 24 HR	154	
7	Sulprur Dioxide (SO2)	Emung orani	IS 9182 : Part 2: 2001 (Reself 2012) [O]	80 24 HR.	86	

END-

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 48, Udayan industrial Estate. 3, Pagladanga Road, Kolkata 700015 Wast Bengal

Tel.: +91 7044039120 Entell udayanlab@rnitrask.com





MSKPL/ED/2023-24/51311L

10/02/2024 - 27/03/2024

MSKNB/ED/2023-24/02/X6105S



ULR: TC-595024000003048F

Dackin MSNGGEIMINN

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda Wasi

AtrPn Joda Dist. - Keonthar Odlaha - 758034 India

TEST REPORT

Report No. :

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

Permanent Facility

27/02/2024

10/02/2024

3000158017/056, Date - 16/09/2022

Chemical

We hereby comb that the following semple Drawn by us has been analysed win the following results:

1. Gmup	Almospheric Pollution
2. Description of sample	Ambient Air
Unique Identification of sample(if any)	NA
4, Date of sampling	08/02/2024
5. Place of sampling	Near Gangeiguda Ph-JWIMM
5. Environmental conditions during sampling & Transport	Temperature: 13-28 deg C 2) Barometric Pressure: 712 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
9, Identification of the personnel performing sampling by MSK	Pranab Kumar Sathi
9. Field Equipments Used	MSK/BBL/FIELD/RDS-4

Report No.: MSKPL/ED/2023-24/S1311L

Sample No.: MSKNB/ED/2023-24/02/X8105S

RESULT

Chemical						
Parameter	NOW	Wathod	Limit	Result		
Arsanic es (As)	ng/m3	USEPA-IO 3.4, June	6 (Armust)	BDL(DLH 0)		
Benzene	micro gm/m3	18 5182 (Part 11)	fi (Anneal)	BDL(DL:4:2)		
Benzo(a)Pyrane	emign .	IS 5182 (Parl 12)	1 (Annual)	BDL(DL:0.5)		
Lead (as Pb.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.03		
Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.23		
Nickei an Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	7.8		
	Arsenic es (As). Benzene Benzo(a)Pyrane Lead (as Po.) Mempanese as Mn	Arsenic es (As). ng/m3 Benzene micro gm/m3 Benzo(a)Pyrane ng/m3 Lead (as Po.) micro gm/m3 Manganese as Mn micro gm/m3	Arsenic es (As).	Arsenic es (As) ng/m9 (JBEPA-IO 3.4, June 6 (Annual) Benzene micro gm/m3 IS 5182 (Part 11) 5 (Annual) Benzo(a)Pyrane ng/m3 IS 5182 (Part 12) 1 (Annual) Lead (as Pb.) micro gm/m3 USEPA-IO 3.4, June 1 (24 Hours) Manganese as Mn micro gm/m3 USEPA-IO 3.4 June Not Specified		

Opinion:

Limit as per CPCB multication, New Order, 18th November 2009, for Amount or quality.

Statement of Conformity

END-

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Struture

None.

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Head Office:

Shapir Cente (Str Pisor), 740 A.J.C. Gore Road, William 700016, Vinet Beogle, India. Tel.: 91 39 40143000 / 33950007 Fee: 91 33 22950005 Tyrani intatteritrash tura Wittenin i sawa minasi dom

Page 1 of 1

Address of Branch:

P.O. Barbii Di Kereybar Orissa 758 035





Sees for Portal

Name & Address of Customer :

Talu Eteel Led (MGM) Joda West

AliPu - Jodu, Dist. - Koonjaar, Odeha - 750034 India Pin

TEST REPORT

Reference No. & Date :

Report No.:

Date:

M3KGL/FD/2023-94/004897

19/02/2024

Sample No.:

MSKGL/ED/2023-24/02/00068

3000156017/056; Date - 15/09/2023

We hereby certify that the following example Drawn by as less been analyzed with the following remain:

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(it any)	Joda Wasi Iron & Manganese Minos	
4. Date of sampling	08/02/2024	
5. Place of sampling	Near Sanceigude Fit	
8. Environmental conditions during sampling & Transport	Clear & Surrey	
7. Sampling Plan & Muthod uned	NA .	

Report No.: MSKGL/ED/2023-24/00/897

Sample No.: MSKGL/ED/2023-24/02/00/268

RESULT

Analysis	lysie Result of Ambient Air					
SI No.	Parameter	UDM	Method	Limit	Result	
1	America (NrS)	micra grom3	IS 5182 (Part 25)	400 24 HR.	19.2	
-2	Carbon Monoxide (CO)	mpintä	IS: 5162 (Pert 10) (D)	2 8/90	0.66	
3	Nitrogen Disoide (NG2)	mara gro/m3	18: 5182 (Part 6) (O)	90 24 HR	20,4	
4	Gzone (03)	micro gman3	19 5182 (Part 9)	180 1 HPL	BUL(DL 20,0)	
.5	Particulate Mother (<10um)	mioru yminiā	IS: 5182 (Part 23) (O)	100 24 HR.	155	
6	Particulate Matter (<2.5um)	maa gm/m3	IS 5182 (PT-24) 2019 (D)	80 24 HR	88	
7	Sulphur Dicode (SO2)	micro grama	(S: 5182 (Part 2), (O)	80 24 HR.	7,3	

- END -

Report Verified By

Hond Office:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48 Udayan Industrial Estate, 3, Pegladanga Road, Kolkata 700015

West Bengal Tel.: +91 7044036120

Email: udayanlab@mitrask.com







Seen for Portal

ULR: TC-695024000003047F

Inche. MSKASEN/1907

TESTINE & ASPECTION

Name & Address of Customer:

Tata Steel Ltd (MGM)_Jode West

AVPo. - Jode, Dist. - Keonihar, Ocisha - 758034 India

TEST REPORT

Report No. :

Date: Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

Chemical

27/02/2024

10/02/2024

10/02/2024 - 27/02/2024

MSKPL/ED/2023-24/H1311K

MSKNB/ED/2023-24/02/VG1074

Permanent Facility

3000156017/056, Oate - 16/09/2023

We hareby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pellution		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(if any)	NA NA		
4. Date of sampling	08/02/2024		
5. Place of sampling	Neer Railwey Siding-JA/IMM		
6. Environmental conditions during sampling & Transport	 Temperature: 13-28 deg C 2) Barometric Pressure: 712 mm of Mg 3) Rsin fel No & Cold Chain Maintained 		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
E. Identification of the personnel performing sampling by MSK	Pranab Kumar Sethi		
9, Field Equipments Used	MSWBBL/FIELD/RDS-3		

Report No.: MSKPL/ED/2023-24/H1311K

Sample No.: MSKNB/ED/2023-24/02/VG1074

RESULT

Chemical							
\$1 No.	Parameter	LIOM	Method	Limit	Result		
1	Arsienic as (As)	ng/m3	USEPA-IO 3.4, June	B (Annual)	BDL(DL1.0)		
2	Benzare	micro gm/m3	(5.5182 (Part 11)	5 (Annual)	BOL(DL:4.2)		
5	Benzo(a)Pyrana	ng/m2	IS 5182 (Part 12)	1 (Annual)	BDL(DLTL5)		
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0,02		
5	Manganese as Mn	пёста динтіЗ	USEPA-IO 3.4: June	Not Specified	0.37		
6	Nickel as Ni	ng/m3	USEPA40 3.4, June	20 (Annual)	6.1		

Opinion:

Statement of Conformity

END

Designation

Emparism Chartain

Authorized Signatory

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Address of Branch:

P.O. Barbil Di Keonthar Onicks 758 035





Scan for Postal

Name & Address of Customer:

Tata Steel Ltd. (MGM)_Juda West

AbPo. - Josta Clat. - Kennihar, Odsha - 758034 India Pri

TEST REPORT

Report No. :

Date:

Sample No.:

Reference No. & Date :

WBKGL/ED/2023-24/004864

19/02/2024

MSKGL/ED/2023-24/02/00267

3000156017/055, Date - 15/05/2023

We hereby contify that the following sample Drawn by us loss been analyzed with the individual matrix

t. Group	AIR
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	Joda Wast Iron & Mangenese Minos
4. Date of sampling	08/02/2024
5. Place of sampling	Near Railway Sitting
Environmental conditions during sampling & Transport Sampling Plan & Method used	Cear & Surrey
1. Sandaud Little o madical meta	NA NA

Report No.: MSKGL/ED/2023-24/004004

Sample No.; MSKGL/ED/2023 24/02/00287

RESULT

SI No.	Parameter	UCM	Method	Limit	Burnit
1	Ammocya (NH3)	micro gm/m3	(S 5182 (Part 25)	400 24 HR	Result
2	Carbon Manaride (CO)	Dinlogen	18: 5182 (Part 10), (O)		16.6
3	Mitrogen Diaxidii (NO2)	micro gm/m3	(S: 5182 (Part 6) (O)	2 8HR. 80 24 HR.	0.53
6	Ozore (O3)	micro gmana	IS 5182 (Part 9)	100 1 HF.	211
5	Particulate Matter (<10um)	mice ge/m3	IS: \$182 (Part 23), (O)	100 24 HR	BOL(OL-20,0
6.	Particulate Matter (<2.5um)	micro gmim3	IS 5182 (FT-Q4) 2018 (O)		203
7	Bulphur Diaxide (SO2)	micro gmints	IS: 5182 (Part 2) (O)	60 24 HR. 80 24 HR.	7.9

-FMD-

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Wast Communists Note: No. 8 J.C. Some Road A. Aven 1706/16 Visit Ea Tel. 61 St 40140803 / 20020007 nav 101 33 20020000 Deat: 10020000000 com Website seem to track com





Building No. F- 48, Udayan Industrial Estate. 3, Pagiedanga Road, Koltata 700015 West Bengal

Tel.: #91 7044038120 Email: Udayanlab@mitrask.com





Scan for Portal

MSKPL/E0/2023/24/E1311E

MSKNWED/2023-24/02/Q8108T

ULA: TC-685024000003045F TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPa - Jode, Dist - Keonihar, Odişlar - 758034 mılta

Report No. : Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

10/02/2024

27/02/2024

10/02/2024 - 27/02/2024 Parmanent Facility

3000158017/058, Date - 16/09/2023

Chamical

We hereby certify that the following sample Orewin by us has been analyzed with the following results:

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(If any)	NA NA		
4. Date of sampling	08/02/2024		
5. Place of sempling	Near H-Quarry Rest Shallor-JWMM		
6. Environmental coodinons during sampling & Transport	1) Temperature 13-28 deg C 2) Barometer Pressure 212 error of Mr. 2: Do. 15-2		
7, Sampling Plan & Method used	NO & LOIG LINEM MATTARIES		
6. Identification of the personnel performing sampling by MSH	IS:6187(F-11,12) & USEPA		
9. Field Equipments Used	Prensb Kumar Semi MSK/BBL/FIELD/RDS-1		

Report No.: MSKPL/ED/2023-24/E1311E

Sample No.: MSKNB/ED/2023-24/02/091087

RESULT

hemical					
SI No.:	Parameter	LICIM	Wethod	Limit	Result
1	Arsenic as (As)	rig/m3	USEPA-ID 3.4, June	& (Amnual)	
2	Benzens	Emiring grains	IS 5182 (Part 11)	5 (Annual)	BDL(DL:1.0)
1	Banzn(a)Pyrane	ng/w3	IS 5182 (Part 12)	1 (Annual)	
4	‡aed (as Pb.)	mitro gm/m3	USEPA-IO 3.4. June	1 (24 Hours)	BDL(DL:0.01)
5	Menganese as Mn	micro gm/m5	USEPA40 3.4: June	Not Specified	
6	Nickel as Ni	ng/m3	USEPA-IO 3-1, June	20 (Annual)	6.2

Land as per CPCB restriction, New Dethi. 18th November 2009, for Ambrent air quality

Statement of Conformity NA

END

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The metals read that you be control account in full, without the pervision of Mana S.K. Physics Leader.
The following the first do reproduced account in full, without the pervision of Manager S.K. Physics Leader.
The reperiod paid of paragetry for charmon weapons (Non-parameter employs) Food. Weight study by relatived for 15 days from the date of each of the Test Report. Periodic committee of except 2 days.

The reserved part of surrogated by chemical encrysis (Sett School Wester) and be reserved for 15 days as per CPCB guidalize 8 (Art 1 recent from the rote of each of the Test Report. The reserved part of surrogated for 15 days surrogated annuals (Non - porteroble surrogated for Section White Section Residue) and the reserved for 15 days surrogated annuals (Non - porteroble surrogated for Section White Section Residue) and the reserved for 15 days surrogated for 15 days surrogate

Stylicit Centre (St) Flori), TAS, A.J.C. Bloss Road, Kolkele - /CDC/IG. Virol Bergal, India. The 191 35 401430001 / 22850007 Fee: Irl 33 226500000. Front Virol Strategic Com Worldon - Income antique Com Head Office:

Page (of)

Address of Branch:

P.O. Barbii Di Kecemar Drissa 758 (GS

Name & Address of Customer :

AMPo. Joda Dist - Keonthay, Odisha - 758034 India Pri-

Taxa Steer Ltd.(MGM)_Jodin West





Scan for Portal

TEST REPORT

Report No. t

MSKGL/ED/2023-24/004903

Date :

19/02/2024

Sample No. :

MSKGL/ED/2023-24/02/00266

Reference No. & Date :

3000156017/856, Date - 18/99/2023

We havely certify that the following sample Drawn by us has been embyond with the following resolu-

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(If any)	Joda West Injo & Minganese Mines	
4. Date of sampling	08/02/2024	-
5. Place of sampling	Near H-Quany Rest Shelter	
8. Environmental conditions during sampling & Transport	Clear & Sunny	
7, Samoling Plan & Method used	10A	

Report No.: MSKGL/ED/2023-24/004903

Sample No.: MSKGL/ED/2023-24/02/00266

RESULT

SI No.	Parameter	NOM	Mothod	Linux	Result
1	Actimotina (NH3)	micro gm/m3	(\$ 5182 (Part 25)	400 24 HR	15.3
2	Carton Monorisis (CO)	mg/m3	IS: 9162 (Part 10) (O)	2 8HR	0.51
3	Nitrogen Disside (NO2)	micro gm/m3	13: 5182 (Part 61_(O)	80 24 HR.	21.6
4	Ozone (O3)	micro gm/m3	(5 5182 (Part 9).	180 1 HR.	BDLIDE 20.0
. 5	Perilcipate Matter (<10um)	micro gm/m3.	18: 5182 (Part 23) (O)	100 24 HR	158
Œ	Particulate Matter (<2.5ijm)	micro grown3	IS SHIZ (PT-24),2819 (O)	60 24 HR	98
7	Sulpres Dinxide (SO2)	micto comimis	US: 5187 (Pari 2) (O)	80 24 MR.	6.9

- END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladange Road, Kolkata 700015 West Barros

Tel.: +61 7044036120 Email: udayanlab@witrask.com







Scan for Portal

ULR: TC-895024000003048F

THIS NO. MISKCHIMMANUT

TERTING + INSPECTION

Name & Address of Customer:

Teta Steel Ltd.(MGM)_Joda West

At/Po - Joda, Diel - Keonhar, Coisha - 758034 Ingis

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/V13111

27/02/2024

MSKNB/ED/2023-24/02/7F10A/I

10/02/2024

10/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date + 16/09/2023

Chemical

We hereby peritly that the following samule Drawn by us has been evulyzed with the following results.

1, Group	Atmospheric Politifion
2. Description of sample	Ambient Ar
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	08/02/2024
5. Place of sampling	Near D- Quarry Screen Plant-JWIMM
6. Environmental conditions during sampling & Transport	7) Temperature: 13-28 deg C 2) Barometric Pressure: 712 mm of Ho 3) Perio Fell
7, Sampling Plan & Method used	No. & Cold Chein Malotained (S:5182(P-11,12) & USEPA
8. Identification of the personnel parlomning sampling by MSK	Prenab Kumar Sethi
9. Field Equipments Used	MSK/BBL/FIELD/RDS-8

MSKPL/ED/2023-24/V13111 Report No. :

Sample No.: MSKNB/ED/2023-24/02/7F10AA

RESULT

Chemical						
SI No.	Parameter	DOM	Mathod	Limit	Resurt	
-1	Arsenic as (As)	ing/m3	USEPA-ID 3.4, June	6 (Annual)	BDL(DL1.0)	
2	Bertzerle	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BOL(DL:4.2)	
3	Banzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	T (Annuar)	BOL(DL-0.6)	
4	Lead (se Ph)	micra gm/m3	USEPA-10-3.4, June	1 (24 Hours)	BDL(DL:0.01)	
5	Manganese as Mn	Emiring oralim	LISEPA-IO 3 4: June	Not Specified	0.37.	
6	Nickel 8s Ni	ng/m3	USEPA-IO 3.4 June	20 (Annual)	BDL(DL 5.0)	

Opinion-

Land as per CPCS notification. New Deris, 18th November 2009, for Ambient air quality

Statement of Conformity

END

Designation

Emmily Circuit

Authorises Bigues at

Standard

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Orregnesser Laborator transport

The results raised only to the device) senses
The Trust Report shall not be reproduced excent in full, welfore the permanent of Mary S.e. Private Landed.
The resource part of semples that despite a regime (Non - perhaps complete) had Making shall be resourced by 15 days from the date of fore that Report resourced in the resourced part of semples (See September 1) and Report resourced (See September 1) and Report resourced part of semples (See Sept

Smach/Care's (Str. Feor), 748, A.J.C. Scool Revol, Kolosta - 100016, Visual Sampat, India Tol.: 91 30-44140001 / 20160007 Feor. 91-33 20160009. Times - Interface Season Completes in plant scientific com Head Office:

Address of Branch:

P.O. Simbil Di Kurminer Dresse 758 035





Scan for Portal

Name & Address of Customer:

Tata Stool Ltd (MGM) Joda West

ANPlu - Jack Dist. - Kuccijser, Odletiz - 758039 India Pin

TEST REPORT

Reference No. & Date :

Report No. :

MBKG2 /ED/2023-24/00/49/02

Date:

19/02/2024

Sample No.:

MSKGL/ED/2023-24/02/00265

3000156017/056, Date - 15/06/2023

We hereby confly that the following sample Drawn by us has been analyzed with the following sample:

1, Group	AIR
2. Description of sample	Ambient Ali
3. Unique Identification of sample(if any)	Joda West Iron & Manganese Micros
4. Date of sampling	0802/2024
5. Place of sampling	Near D-Quarry Screen
6. Environmental conditions during sampling & Tomoport	Clenr & Sunny
7. Sampling Plan & Method used	NA NA

Report No. : MSKGL/ED/2023-24/004902

Sample No.: MSKGL/ED/2023-24/02/00285

RESULT

SI No.	Parameter	MON	Mothod	Christ	Result
1	Ammonia (NH3)	Emirry orders	IS 5182 (Part 25)	400 24 HR.	
2	Carbon Monorade (CD)	tmg/m3	15: 5182 (Part 10) (O)	2 BHR.	15.1
3	Nithujan (Noode (NO2)	mioro gmilera	(S: 5162 (Part 6) (O)	80-24 HR.	20.2
4	Ozone (D3)	micro grains	(5 5162 (Part 9)	180.1168	BDL(DL:20.0)
25	Particulate Matter (<10um)	minn gm/m3	IS: 5182 (Part 23) (O)	100 24 HR	-
6	Particulate Matter (<2.5um)	micsu gm/m3	IS 5182 (PT-24),2018_(O)	80 24 HR	163
7	Supriur Dioxide (SD2)	micra gm/m3	IS 5162 (Part 2) (D)	80.24 HR	8,4

END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 45. Udayan Industrial Estate 3, Paglacange Road, Kolkata 700015 West Bengal Tel.: +91 7044038120 Email: udayanlab@mirrask.com







Our No. IMPROSEMYDAY

Scan for Portal

ULR: 1C-695024000003044F

Name & Address of Customer:

Tala Steel Ltd.(MGM)_Joda West

ANPa - Joda List - Keoninar, Odisha 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date 1

Disciplina:

10/02/2024 - 27/02/2024

MSXPL/ED/2023-24/R13112

MSKNB/ED/2023-24/02/6A106F

Permaneni Facility

3000156017/066; Date - 16/09/2023

Chamicsi

27/02/2024

10/02/2024

We havenly certify that the following sample Drawn by us has been emplosed with the following results:

1. Group	Alternative Park III		
2. Description of sample	Atmospheric Potlutjon		
Unique Identification of sample(if any)	Amblent Air		
6. Date of sampling	NA.		
5. Place of sampling	QB/02/2024		
5. Environmental conditions during sampling & Transport	Neer D-Quarry Shorting Vard-JMMM 1) Temperature: 13-28 deg C 2) Barometric Pressure: 712 mm of Hg 3) Rain No. 8, Codd Charle March 2018		
, Sempling Plan & Method used	hio & Cold Chair Maintained (5:5182(P-11,12) & USEPA		
3. Identification of the personnel performing sampling by MSK	Praintb Kumar-Sathi		
5. Field Equipments Used	MSK/BBL/FIELD/RDS-6		

Report No.: MSKPL/ED/2023-24/R13112

Sample No.: MSKNE/ED/2023-24/02/6A10SP

RESULT

Shemical State of the state of						
Si Na:	Personetay	DOM	Mothrod	Limit	Result	
1	Arsenic as (As)	ng/m3	UBSPA-10 3.4, June	6 (Annual)	-	
2	Eenzene	roloro gravim3	IS 5162 (Parl 11)	5 (Annual)	BDL(DL:1.0)	
3	Benzo(a)Pyrene	Eurige	IS 5182 (Part 12)		BDL(DL:4.2)	
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (Annual)	BDL(Dt. 9.5)	
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	1 (24 Hours)	BDL(DL:0.01)	
6	Nickel as Ni			Not Specified	0.13	
Industrian -	(1410)(0) (0) (41)	ng/m3	USEPA-IO 3.4, June	20 (Annuai)	BDL/DL:5.0)	

Limit as per CPCB nontestion, New Delhi, 18th November 2009, for Ambient at-quality

Statement of Confirmity

END

Maire

Cletigration

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Shrech Cover odd Floor), 748, A J.C. Bown Rose, Kokate - 700016, West Bergal, System Feb., 91 St voi 43000 / 23950007 Floor, 81 St 23950008 Floori of Ordinariosis com Probate - International com Houd Office:



P.O. Bathi Di Keoninar Crista 758 635





Scop for Portal

TEST REPORT

Name & Address of Customer :

At/Po. - Joda, Dist. - Kwonjihar, Odjetni - 258034. India Phi

Tata Steel Ltd (MGM)_Joint Wasi Date :

Report No.: MSKGL/ED/2023-24/004906

19/02/2024

Sample No. : M8KGL/ED/2023-24/02/00284

Reference No. & Date: 3000156017/056, Date: 19/09/2023

We hereby certry that the following sample Drawn by us has been arratized with the following results:

1, Group	AIR		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(if any)	Jode West Iron & Mangainese Mines		
4. Date of sampling	08/00/2004		
5. Place of sampling	Near D-Grany Sorting Yard,		
6. Environmental conditions during sampling & Transport	Chair & Surery		
7. Sampling Plan & Method used	NA .		

Report No. 1 MSKGL/ED/2023-24/004906

Sample No.: MSKGL/ED/2023-24/02/00284

RESULT

malysis Result of Ambient Air					
SI No.	Parameter	UOW	Melhod	Almit	Result
1	Aminonia (NH3)	mem gm/m3	IS 5182 (Part 25)	400 24 HR.	14.9
2	Carbon Monocide (CO)	mg/m3	18: 5182 (Part 10), (O)	2 8HR.	0.61
3	Nitragen Dioxide (NO2)	micro gm/m3	IS: 5162 (Part 5)_(O)	80.24 HR.	19.9
4	Ozone (Cd)	micro gmim3.	(S 5182 (Part 9)	2847 08¢	BOL(BL-20 U
5	Particulate Marter (<10um)	micro.gm/m3	IB: 5182 (Part 23) (O)	100 24 HR.	179
ñ	Particulate Wester (<2.5um)	mioro grolm3	IS 5182 (PT-24),2019 (O)	60 24 HR.	88
7	Sulphur Dipoide (SO2)	micro grains	(3: 5182 (Pan 2) (O)	80 24 HR.	5.1

___ FN7) ____

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48. Lidayan Industrial Estate. 3, Pagladengs Road, Kokata 700015. Wast Benga

Tel. #91 7044036120 Email udayardab@mitraak.com







Scan for Portal

ULR: TC-695024000003043F

District MENCENTERY

Name & Address of Customer:

Tata Steel Ltd. MGMI Joda West

AVPa. - Juda, Dist. - Keonjihar, Odisha - 788034 India

TEST REPORT

Report No. :

Date: Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

10/02/2024 - 27/02/2024 Parmenent Facility

M5KPL/ED/2023-24/F1311/L

MSKNB/ED/2023-24/02/4M logit

3000156017/058 Clate - 16/09/2023

Chemical

27/02/2024

10/02/2024

We hereby cornly that the following sample Drawn by us has been analyzed with the following results:

1. Group	Almospheric Pollution
2. Description of sample	Aintisent Air
Unique Identification of sample((f apy)	NA NA
4. Date of sempling	08/02/2024
5. Place of sampling	Near Time Office-JWMM
5. Environmental conditions during sampling & Transport	1) Temperature :13-29 deg C 2) Basomolric Pressure: 712 mm of He 3) Rem ful
7. Sampling Plan & Method used	No & Cold Chein Mainteined IS:5182(P-11,12) & USEPA
I. Identification of the personnel performing sampling by MSK	Pranab Kumar Seihi
Fleid Equipments Used	MSK/SBL/FIELD/RDS-2

Report No.: MSKPL/ED/2023-24/F1311L

Sample No.: MSKNB/ED/2023-24/02/4/41091

RESULT

hemical						
SIND.	Parameter	NOM	Method	Limit	Result	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	£ (Annus)	BOL(OL:1.0)	
2	Senzane	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4.2)	
3	Benzo(a)Pyrene	ng/m3	(5 5182 (Part 12)	1 (Annual)	BDL(DL-0.5)	
4	Load (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL-0.01)	
5	Mangenese as Mn	micro gm/m3	USEPA-ID 3.4: June	Not Specified	0.30	
6	Nickel as Ni	mg/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL-5.0)	

Opinion:

Limit as per SPCG notaceagn, New Delhi, 18th November 2008, for Ambient air quality

Statement of Conformity NA

END -

Daugestion

Executes Charact

Lab in creation

The reliable relate only to the energy upday:
The Feet Report shall not be respectived accept in full, entered the permention of Altino S.K. Physics Emission
The reserved part of pumpings for preserved analysis (Non-) parallels complete Constitute returned for 15 days from the clear of mass of the Tiest Report. Permittable completes complete complete complete completes complete complete completes complete completes.

from the data of source of the Yest Report. This reserves, part of surrapings) for others:

The reserved part of sense(s) for character entering another (See, Balat & Local Wester) shall be reserved by 15 days on part CPCB guideline & (As)) senses from the State of laster of the Trail Report.
The reserved part of sense(s) for Microbiological entering (Non-permitte sense) in the State Part Report.

Shilathi Carles (Dih Floor), 749, A.J.C. dase Rosci, 6:8km - 700015, West Bergel, Irela fee: \$1.30-40143000 / 23450007 Fee: 91-33 2365000 Fersil - rifeditatessa.com WebSite Fersil referant.com Head Office:

Address of Branch:

P.O. Barbii Di Konnfun Orașa 758 035





Scan for Portal

Name & Address of Customer:

Tista Streil Ltd (MOM)_Jode West

AtPo. - Jadii Diet. - Keonjaar, Odishi - 758034 India Pin

TEST REPORT

Reference No. & Date :

Report No.:

Date :

Sample No.:

MSRGL/ED/2023-24/104896

19/02/2024

HOROL WHILE

MSKGL/ED/2023-24/02/00263

2000156017/056, Date - 15/09/2023

We hereby certify that the following sample Drawn by us last been analyzed with the following results:

1. Group	AR	
2. Description of sample	Ambient Air	
3. Unique identification of sample(if any)	Joda West von & Manganese Miess	
4. Date of sampling	08/02/2004	
9. Place of sampling	Near Time Office	
6. Environmental conditions during sampling & Transport	Clear & Sunny	
7. Sampling Plan & Method used	NA.	

Report No.: MSKGL/ED/2023-24/004896

Sample No.: MSKGL/ED/2023-24/02/09263

RESULT

Analysis Result of Ambient Air					
51 No.	Parameter	DOM	Method	Limit	Result
1	Amimonia (NF3)	meters gen/m3	15 5182 (Parl 25)	400 24 HR	14.7
2	Carbon Monagda (CO)	mganti	15: 5182 (Perl 10)_(D)	2.898	0.52
1	Nitrogan Dioxide (NO2)	micro gm/m3	IS: 5782 (Part 6) (O)	8024 HR.	21.5
4	Ozone (C3)	mitro greina	IS 5182 (Plet 9)	180 1 HR.	BDL(DC:20X)
5	Particulate Matter (<10um)	mlaro gru/m3	IS: 6182 (Part 23) (O)	100 24 HR.	201
0	Particular Matter (<2.5um)	micro gmin/3	15 STB2 (PT-24),2019 (O)	60 24 HR.	99
2	Bulphur Dioxete (SO2)	mare grims	(3: 5182 (Part 2) (O)	80 24 HR.	8.2

END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Tax No.: MSAVCATATEMEN









Scan for Portal

ULR: TC-695024000003054F

Name & Address of Customer:

Tata Steel Ltd (MGM) Jode West

Address of Laboratory :

West Bangai Tel.: +91 7044036120 Emzil udayanlab@mitrask.com

Building No. P- 48, Urteyan Industrial Estate. 3, Pagladanga Road, Kolketa 700015

At/Fit - Joda, Dist. - Resonhar, Odisha - 758034 Veille

TEST REPORT

Report No.: Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/21311D

27/02/2024

MSKNB/ED/2023-24/02/NB108E

12/02/2024

12/02/2024 - 27/02/2024

Permanent Facility

3000156017/055, Date | 15/09/2023

Chemical

We hereby carrify that the following sample Drawn by us has been analyzed with the following results:

Group			
2. Description of sample	Atmospheric Pollution		
J. Unique identification of sample(if any)	Ambient Air		
4. Date of sampling	NA .		
5. Place of sampling	09/02/2024		
	Near H-Quarry Rest Sheltor-JWMM		
f. Environmental conditions during sampling & Transport	1) Temperature :13-24 dag C 2) Barrametric Descripto 212 mon of U. A. D.		
Sampling Plan & Method used	The Residence Court Manual Med		
I. Identification of the personnel performing sampling by MSK	IS:6182(P-11,12) & USEPA		
Field Equipments Used	Latin Kumar Naik, Fratik kumar manhi		
	MSK/BBL/FIELD/RDS-1		

Report No.: MSKPL/ED/2023-24/21311D

Sample No.: MSKNE/ED/2023-24/02/NE 106E

RESULT

31 No.	Parameter	NOW	Method	1460	1
1.	Araenic as (As)	ng/m3		Limit	Result
2	Benzene		USEPA-ID 3.4. June	8 (Annual)	BDL(DL1.0)
3	Bonzo(a)Pyrene	micra gin/m3	IS 5182 (Part 11)	5 (Annual)	BDL/DL 4.2)
4	Lead (at Pb.)	Entities	IS 5182 (Part 12)	1 (Annual)	SOL(DL:0.5)
5		micro genim3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL-0.01)
6	Manganese as Mn	micro gro/m3	USEPA-10 3,4' June	Not Specified	0.14
plaion :	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BOL(DL 5 0)

Limit as per CPCB redification, New Joshi, 16th November 2009, for Ambient air quality

Statement of Conformity NA

END -

Revenue By

Dispresion

Executive Charles

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This Tipe Report shall not be reproduced except in the service of the permanent of May S.K. Private Library.

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P.O. Biathii Di Keorgher Onssu 758 035





TEST REPORT

Name & Address of Customer:

Tota Sine(Ltd.(MCM) Jods West

AbPo. - Joda Dist - Keorghar, Odesta - 758034 India Pin

Report No.:

Date:

Sample No.: Reference No. & Date : MSKGL/ED/2023-24/004900

19/02/2024

MSKGL/ED/2023/24/02/90272

3000158017/056, Date - 15/00/2023

We hereby earthy that the following armole Drawn by up has been analyzed with the indimens require

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique identification of sample(if any)	Jode West iron & Manganese Minos	
4. Date of sampling	09/02/2024	
5. Place of sampling	Near H-Quarry Rest Sheller	
8. Environmental conditions during sampling & Transport	Clear & Survey	
7. Sampling Plan & Method used	NA NA	

Report No.: MSKGL/ED/2023-24/004900

Sample No.: MSKGL/ED/2023-24/02/00272

RESULT

malysis Result of Ambient Air					
SI No.	Parameter	HOM.	Method	Limit	Result
1	Ammonia (NH3)	tekno gmle3	15 5182 (Part 25)	400 24 HR.	15.8
2	Cerbon Minnovide (CO)	mg/m3	45, 5182 (Part 10)_(O)	2 6HR.	51.47
3.	Nitrogen Oxoxide (NO2)	micro gnum3	IS: 5182 (Part 6), (O)	80 24 HR.	20.8
4	Dzone (CG)	micro gm/m3	IS 5182 (Part 9)	180 1 HR.	BDL(DL:20.0
5	Particulate Mottor (<10cm)	Celling arount	(8: 5182 (Part 23)_(O)	100 24 HR.	212
Ð	Particulate Mateir (<2.5um)	micro grum3	IS 5182 (PT-24),2519 (O)	60 24 HR.	164
1	Bulghur Diaxide (SG2)	mittro amim3	(8: 5182 (Part 2)_(O)	80 24 HR	7.3:

END

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estates, 3, Pagladangs Road, Kolkata 700015 Wast Bengal

Tel: +91 7044038120 Email: udayanlab@mitrask.com



TC-6950



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ULR: TC-6950240000030825

DOO NO. MISCOSTATISTIC

ESTING WINEPERTIN

Name & Address of Customer:

Tate Steel Ltd.(MGM)_/ode (Vest

At/Fit - Jode Dist - Keon/rar, Odishe - 758034 India

TEST REPORT

Report No. : Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/B1311C

27/02/2024

MSKNB/ED/2023-24/02/2010AV

12/02/2024

12/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 18/09/2023

Chemics

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Alinaspheric Pollution
2. Description of sample	Ambient Air
Unique Identification of sample(If any)	PM.
4. Date of sampling	09/02/2024
5. Place of sampling	Near D-Quany Shurting Yard-JWIMM
6. Environmental conditions during sampling & Transport	Temperature :13-24 dag C 2) Barometric Pressure: 712 mm of Hg 3) Rain fall No 8 Cold Chair Maintained
7. Sampling Plan & Method used	S:5182(P-11,12) & USEPA
6. Identification of the personnel performing sampling by MSK	Leliy Romar Naik, Prelii kumat mantri
9, Field Equipments Used	MSK/BBLIFIELD/RDS-6

Report No. 1 MSKPUED/2023-24/81311C

Sample No.: MSKNB/ED/2023-24/02/2N10AV

RESULT

Chemical						
Parameter	UDM	Method	Limit	Résult		
Arsenic as (As)	žm/gn	USEPA40 3.4, June	5 (Annual)	BOL/DL:103		
Bénzene	micro gm/m3			BDL(DL 4.2)		
Benzo(a)Pyrene	Em/gri	15 5182 (Part 12)		BDL(DL:0.5)		
Lead (es Pb.)	micro gm/m3	USEPA-IO 3.4, June	7.1.7.7	BOL(DL:0.01)		
Mangarrese as Mn	mioro gmim3	USEPA-IO 3.4: June	The state of the s	0.13		
Nickel as Ni	ng/m3	USEPA-IO 3.4, June		BDL(DL:5.0)		
	Arsenic as (As) Benzene Benzo(a)Pyrene Lead (as Pb.) Meoganese as Mn	Arsenic as (As) ng/m3 Benzene micro gm/m3 Benzo(a)Pyrene ng/m3 Lead (ex Pb.) micro gm/m3 Menganese as Mn micro gm/m3	Arsenic as (As) ng/m3 USEPA-IO 3.4, June Benzene micro gm/m3 IS 5182 (Part 11) Benzo(a)Pyrene ng/m3 I6 5182 (Part 12) Lead (as Pb.) micro gm/m3 USEPA-IO 3.4, June Mengariese as Mn micro gm/m3 USEPA-IO 3.4, June	Arsenic as (Aq) ng/m3 USEPA-IO 3.4, June 5 (Annual) Benzere micro gm/m3 IS 5182 (Part 11) 5 (Annual) Benzo(a)Pyrene ng/m3 IS 5182 (Part 12) 1 (Annual) Lead (ex Pb.) micro gm/m3 USEPA-IO 3.4, June 1 (24 Hours) Mengariese as Min micro gm/m3 USEPA-IO 3.4, June Not Specified		

Opinion (

Limit as per CPCs millication, New Desty, 18th November 2009; for Ambient air quality

Statement of Conformity NA.

END :

Revenued by

Tigrette

Designation Executive Counsit Authorized Secretary

Egmin

Designation.

Lad trichway

Tree remarks reliable carry to five learning bleshoot.

This Test Report shall not be reportabled except in but, without the personnel of filter 6.6. Phone Extrem?
The removed cost of exception for the model analysis (Non-perforable secretary) Food, Whiten shall be recovered by 5 days from the date of time Test Report. Personnel sample(s) shall be retirement? days from the Dest Report.

The intervent part of complete) for chemical destyles (Seet, Seet & Linear) Wildow, shall be returned for 15 cases as per CPCE guidaline & (Au) 4 month from the data of lance of the Two Report.
The intervent part of completely for Management and Microsophism an

Streets Cardin (2017 Foot), 74B. A.J. C. Boss Roset, Krabets - 700016, West Barget, Inclin Tel.: 91-33-40143000 / 2569007 Fee: 91-33-2010038

Ereal: Widginstrust-curr Vitroite: reversibilities: Head Office:

Address of Branch:

P.O. Barbii Di Keoninar Orissa 758 035

Name & Address of Customer:

Tuta Shed Ltd (MGM)_Jode West





Scan fee Portal

TEST REPORT

Report No. :

Sample No.:

MSKGL/ED/2023-24/004898

Date :

19/02/2024

AAPe, - Jode, Dist. Keorgher, Odssha - 758034 India Pyr.

190041200

MSKGL/ED/2023-24/02/00270

Reference No. & Date :

3000156017/056, Date - 15/09/2023

We hereby curity that the following sample Drawn by we has been analyzed with the following recruits

1. Group	AIR	_
2. Description of rample	Ambient Air	
3. Unique Identification of sample(if any)	Joda West Iron & Manganese Mines	
4. Date of sampling	09/02/2024	
5. Place of sampling	Near D-Quarry Sorting Yard,	
6. Environmental conditions during sampling & Transport	Clear & Surray	
7. Sampling Plan & Muthad used	NA NA	

Report No.: MSKGL/ED/2021-24/094808

Sample No.: MSKGL/ED/2023-24/02/00270

RESULT

unalysis Result of Ambient Air					
SI No.	Paramoder	UOW	Method	Limit	Result
1	Ammonia (NH3)	micro gm/m3	IS 5182 (Part 25)	400 24 HR.	15.1
2	Cerbon Monoxide (CO)	mg/m/3	IS 5182 (Part 10); (O)	2 8460	0.58
2	Nitrogen Dioxide (NO2)	micro gra/m3	15: 5162 (Pert 6) (O)	80 24 HR.	20.1
4	Ozone (O3)	focus gm/m3	18 5182 (Part 9)	180 1 HR.	BDL(DL:20.0)
6	Perticulate Matter (<100m)	micro gm/m3	15: 5182 (Part 23), (O)	100 24 HR.	182
.6	Particulate Matter (<2.5um)	micro gm/ma	IS 5182 (PT-24) 2019 (O)	80 24 HR	87
7	Sulprist Dioxide (SO2).	таго дтіта	IS: 5182 (Part 2)_(O)	90'24 HR.	7.3

iner:

Report Verified By

For Mitra S, K. Private Limited

Address of Laboratory:

Building No. P. 48, Lidayan Industrial Estate, 3, Pagladanga Road, Kolivata 700015 West Bangal

Tel.: +91 7044036120 Email: udayarlab@mitrask.com







Scan for Portal

ULR: TC-695024000003053F

Doc His. MEXCREMITARY

TESTING - INSPECTION

Name & Address of Customer:

Tata Steel Ltd [MGM]_Joda Wasi

Al/Po. Joda, Dist - Reonihar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Disciplina:

MSKPL/ED/2023-24/613110

27/02/2024

MSKNB/ED/2023-24/02/LV408V

12/02/2024

12/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the tollowing sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
Unique Identification of sample(if any)	NA NA
4. Date of sampling	09/02/2024
5. Place of sampling	Near D-Quarry Screen Plans-JWIMM
6. Environmental conditions during sampling & Transport	1) Temperature :13-24 deg C 2) Baremetric Pressure: 712 mm of Hz 3) Pain for
7. Sampling Plan & Method used	No & Cold Chain Maintained IS:5182(P-11, 12) & USEPA
5. Identification of the personnel performing sampling by MBK	Latin Komar Naik, Pratik kumar mantir
9. Field Equipments Used	MSK8BLFIELDRDS-8

MSKPL/ED/2023-24/613110 Report No. :

Sample No. : MSKNB/ED/2023-24/02/LV108V

RESULT

Chemical					
SI No.	Parameter	UDM	Method	Limit	Result
1	Arsenic as (As)	fm/gn	USEPA-10 5.4, June	6 (Annual)	BOL(DL 1.0)
2	Benzene	Em/mg croim	IS 5182 (Part 11).	5 (Annual)	BOL(DL 4.2)
3	Senzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	T (Annual)	BOL(DL:D:5)
4	Lead (as Pb)	micro gmim3	USEPA-IO 3.4, June	1 (24 Hours)	0.03
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.26
8	Nickel as Ni	ng/m3	USEPA-10 3.4, June	20 (Annual)	8.6

Opinion:

Limit as per CPCR notification, New Dails, 18th November 2008, for Amount or quality

Statement of Conformity NA

END

PARTITION OF THE

Signmen

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The president misses only to the second temporal

The Test Report was not be reproduced except in fig., whice the percentage of Mitte 8 K. Primate Lineaus.
The resident part of sempley) the obstrate destroys (Non-performance) Associated (Podd, Make) shall be interest for 15 class from the case of house of the Test Report. Pursuance samplests shall be case with the date of insure of the Test Report.

The reserved part of semplets) for chemical energies (See, Salet & Lapud Wester) and to intermed to be septiment to days as per CPCS guarantee & (Ar.) I month from the date of sause of the Tiest Hoper.
The reserved part of semplets) to Microbiological sessions (Non - potentials semplets) food, Sasion Moor, Session flood; shall be retained for 15 days from the date of source for the Tiest Hagain.

Shrachi Corso (bin Picer), 74B. A. J. C. Bose Rose, Kokala - 700016, West Bergal, India. 7st : 91.33 40140000 / 2080000 Fee: 91.23 20850000. Eyest : vitografications: Western : www.mikiath.com Head Office:

Page 1 nf F

NOT MANYOR

Address of Branch:

P.O. Barbil Di Kennihar Ovesa 758 035





Scan for Portal

Name & Address of Customer:

Table Steel Ltd./MGM) Jode West

AirPo. - Joda, Dist. - Keonyrar, Odsha - 758934 Indie Pin

TEST REPORT

Report No.:

Date :

Sample No.: Reference No. & Date : MEKGL/ED/2023-24/004899

19/02/0024

MSKGL/ED/2023-24/02/00/271

9000166017/066, Date - 15/09/2023

We hereby cartify that the following swraps: Drawn by us has been analyzed with the

I. Group	AIR
2. Description of sample	Ambert Air
S. Unique Identification of sample(if any) L. Date of sampling	Joda West Iron & Mangamese Mines
Place of sampling	09/02/2024
	Near B-Guarry Screen
Environmental conditions during sampling & Transport Sampling Plan & Method used	Clear & Sunny
Constant of method fized	INA

Report No.: MSKGL/ED/2023-24/004890

Sample No.: MSKGL/ED/2023-24/02/00271

RESULT

SiNo	Parameter	HOM	Method	To a second	10000
1	Americania (NH3)	micro gravita	IS 5182 (Part 25)	Limit	Rosuit
2	Carbon Monoxide (CD)	moted		400 24 HR.	15.3
3	Mingen Dioxide (NO2)		IS: 5182 (Part 10) (O)	2 8HR	0,47
	Ozone (O3)	micro groino micro groino	IS: 5182 (Part 6) (O)	80 24 HR.	19.7
5	Presidente Matter (<10am)	micro grovas	IS 5162 (Part 9)	180 T HR.	BDL(DL-20,0
6	Parliculate Malter (<2.5um)		IS: 5182 (Part 23)_(D)	100 24 HR.	149
7	Sulphur Dioxide (SO2)	mens grains	IS 5182 (PT-24),2019 (D)	00 24 HR.	71
-	empriss cadade (502)	micro griemà	15: 5182 (Part 2) (D)	80 24 HR	7.1

END-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Head Office:

Sheet I Close (St. Floor) 749, K.J.C. Sow-Rood, Kolens - 2000 F. Most Florigal by for For: 41) 33 articlock (Scholing: Flor. 31-32 scholod) Seed: singlimited-con Visionia: www.phinoscom

DOLMA, MSKIGEWING









Scan for Portal

ULR: TC-695024000003051F

Name & Address of Customer :

Tata Steet Lin (MGM) Joda West

Address of Laboratory :

West Bengal Tel: +91 7044638120 Email udayaniab@mitrask.com

Building No. F- 48, Udayan Industrial Estate, 3, Paglinfenga Road, Kolkata 700015

AUPo. Jody, Dist. Kecninar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/R13115

27/02/2024

MSKNB/ED/2023-24/02/0V1095

12/02/2024

12/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Chemical

We hareby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group			
2. Description of sample	Almospheric Pollution		
3. Unique Identification of sample(if any)	Ambient Air		
4. Date of sampling	NA .		
5. Flace of sampling	09/02/2024		
	Near Time Office-JWIMM		
5. Environmental conditions during sampling & Transport.	1) Temperature :13-24 deg C 2) Barometric Pressure: 712 mm of Fig 3) Ram fall		
7. Sampling Plan & Method used	Track of Cody Craim Attentioned		
	IS:5182(P-11,12) & USEPA		
8. Identification of the personnal performing sampling by MSK	Léfin Kumar Nsik, Pratik Kumar mentri		
9. Field Equipments Used	MSK/BBL/FIELD/RDS-2		

Report No.: MSKPUED/2023-24/R13115

Sample No.: MSKNB/ED/2023-24/02/07/1095

RESULT

Chemical					
S1 /kg.	Parameter	UOM	Mathon	Limit	1 6-1
1	Arsenic as (As)	ng/m3	USEPA-IO 3,4, Ame		Result
2	Sensons	micro gm/m3	IS 5182 (Part 11)	fi (Annual)	BOL(DL/1 II)
3	Benzo(a)Pyrene	ng/nx3	IS 5182 (Part 12)	5 (Arinual)	BDL(DL/4.2)
4	Load (as Pb)	Emiling oralm	USEPA-IO 3.4, Julie	(leunnA) t	BOL(DL-0.6)
8	Mangenese as Mn	Cmimp oraim	LISEPA IO 3 4: June	I (24 Hours)	0.02
6	Mickel as Mi			Not Specified	0.30
noinig		Inglim3 Is notification. New Dear	USEPA-IO 3.4, June	20 (Ainnual)	BDL(DL:5.0)

Limit as per CPCB notification. New Dear 18th November 2009, for Ambient als quelly

Statument of Conformily NA

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DESCRIPTION

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Observation:

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The recovered part of completes for characterist enabytes (box), Salto 6. Legar Vessels) short be income at for 15 days as per CPCS; published 6 (Air) 5 recomes the later of cause of the Text Husbott The recovered part of energiage) for Management analysis (Not - personance are played) Food, Shelon Vessel, Gentle (not) shall be related to 15 days from the case of star Text Report

Strands Cortes (Str Floor), 748. A J. C. Bose Rolet, Rollats - 700016, Wast Bange, Intra. Tel. : 91:33 40(43)(07) 20160007 Feb. : 91:33 22550009.

Estal. : r/syglentesis.com Widelian. West militals, Cate Head Office:

Page 1 of f

Address of Branch:

P.O. Bartill Dt Keonther Orassa 758 035





Name the Person

Name & Address of Customer:

Talu Steel Ltd.(MGM) Joda West

AMPo. - Joda, Dist. - Keonthor, Odisha - 758034 Water Fin

TEST REPORT

Report No.:

Date : Sample No. :

W.1

Reference No. & Date |

MSKGL/E0/2023-24/094905

18/02/2024

MSKGL/ED/2023-24/02/00289

8000156017/056, Date - 15/09/2023

We benefy centry that the reliewing sumple Drawn by us loss been analyzed with the following results

1. Group	AIR
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	Joda West Iron & Mangatiose Mines
4. Date of sampling	09/02/2024
5. Place of sampling	Negr Time Office.
6. Environmental conditions during sampling & Fransport	Churt If Strony
7. Sampling Plan & Method used	NA NA

Report No.: MSKCII/ED/2023-24/804905

Sample No.: MSKGL/ED/2023-24/02/00269

RESULT

SI No.	Paramoter	LIDM	Method	Livil	Result
1	Armene (NH3)	micro grums	IS 5182 (Parl 25)	400 24 HR.	
-2	Darton Monoide (CO)	(Selgm	IS: 5182 (Part 10)_(O)	2 BHR.	15.1
3	Mitrogen Dioxide (ND2)	Emicro gm/m3	IS: 5182 (Part 6) (O)	50 24 HR	0.43
4	Ozorei (O3)	micro gm/w3	18 5182 (Part 9)	180 1 HR.	18.6 BDLDL-20.0
5	Particulate Motter (<10um)	micro gm/m3	(S: 5182 (Part 23) (O)	100 24 HR.	
.0	Participate Matter (<2.5um)	micro gm/m3	IS 5102 (PT-24) 2019 (O)	60 24 HR.	196
1	Sulphur Dioxidu (SCQ)	tricocign/m3	(S: 5182 (Part 2) (O)	80 24 HR	7.9

END -

Report Verified By

friead Office:



For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 48. Udayan Industrial Estate. 3, Pagladangs Read, Kolkets 7000 15 West Bangal

Fel: +91 7044036120 Email udayantao@mitrask.com





TEST REPORT



Scan for Portal

ULR: TC-695024000003055F

DOCKE MINOGENISHES

Name & Address of Customer :

Take Steel Ltd. (MGM), Joda West

AliFix - Joda, Day Keonjhar, Odiska - 758034 India

Report No. :

Date:

Sample No. 1

Date of receipt of sample:

Date(s) of performance; Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/Y13112

27/02/2024

MSKNB/ED/2023-24/02/SY1052

12/02/2024

12/02/2074 - 27/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Dhemical

We hereby certify that the following sample Drawn by us has book analyzed with the following results:

1. Group	Almospheric Polittion	
2. Description of sample		
3. Unique Identification of sample(if eny)	Ambiere Air	
t. Date of sampling	NA Philosophia	
5. Place of sampling	09/02/2024	
5. Environmental conditions during sampling & Transport	Near Reshway Sidnig-JWMM 1) Temperature: 13-24 dag C 2) Barometric Pressure: 712 mm of Hg 3) Rain fell No. 5 Cold Characteristics	
. Sampling Plan & Method used	No & Cold Chain Maintained IS:5182(P-11, 12) & USEPA	
I. identification of the personnel performing sampling by MSK I. Field Equipments Used	Lefin Kumar Naik, Pratit Aumar mantel MSK/BBL/FIELD/RDS-3	

Report No. : MSKPUE0/2023-24/Y13112

Sample No.: MSKNB/ED/2023-24/02/SY1052

RESULT

SI No.	Passender	NOW	Mathod	Lime	T manua
1	Arsenic as (As)	ng/m3	USEPA-10 3.4, Juna	6 (Annual)	Result
2	Berizpen	Intideo gmVni3	IS 5182 (Part 11)	5 (Amual)	BOL(DL-1.0)
3	Benzo(a)Pyrene	ng/m3	15 5182 (Part 12)	1 (Annual)	BDL(DL-42)
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	2DL(DL:0.5)
5	Manganese as Mir	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.03
6	Nicker as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	323

Limit as per CPCB politication. New Deshi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

END.

Symmetry

Synan

Dissipation. Decaye Dwid Authorited Signaley

Signature.

Mirro.

Overgreners

AND ALL DRIVERS

The heads pido only is the heads) based
This Test Report shall not be reported except in full, without the portunency of Migo 8 K. Private Lement
They mainted part of semploty for character maybe (Non-periodde complete) Food, visited by mission for this cape from the date of lease of times in the Test Report.

They may be cate of lease of the Test Report.

The reserved part of sample(s) for the reserved ordered problem (Social Scientific Legaci Waters) most be reserved for 15 days at part CATCH gualative & [Arr. 1 moves from the code or seaso of the Text Report.
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Email: #Endbrises.com (Website: Website: Webs Head Office:

Page Toll



P.O. Bothil Dt Keonjistr Orissa 758 035

Name & Address of Gustomer :

Tata Steel Ltd.(MGM)_Jode West





Scientific Process.

TEST REPORT

Report No. 1

MBKGL/ED/2023-24/004901

Date :

(9/02/2024

APPo. - Jodn. Det. - Keonihar Odaha - 758034 India Ptr. Sample No. ;

MSKGL/E0/2023-24/02/00273

3000156017/056, Date - 15/09/2023

We haraby cardly that the following sample Drawn by us has been analyzed with the following results:

1. Group	AIR
2. Description of sample	Arriburg Air
Unique Identification of sample(If any)	Joda West Iron & Manganese Mines
4. Date of sampling	09/02/2024
5. Place of sampling	Negr Railway Siding.
6. Environmental conditions during aumpling & Transport	Clear & Surary
7. Sampling Plan & Method used	NA:

Reference No. & Date :

Report No.: MSKGUED/2023-24/004901

Sample No.; MSKGL/ED/2023-24/02/00273

RESULT

Analysis Result of Ambient Air						
BINO.	Parameter	MOM	Method	Limit	Result	
1	Ammonia (NH3)	micro gmim3	. 15 5182 (Part 25)	400. 24 HR:	16,1	
2	Carbon Monoside (CO)	mg/m3	(S: 5182 (Part 10), (D)	2 8HR.	0.51	
3	Nitrogen Dioxide (NOZ)	micto gm/m3	IS: 0182 (Part 6) (O)	80 24 HR.	21.6	
4	Ozone (O3)	micro gm/m3	IS 5182 (Part 9)	180 1 HR.	BDL(DL-20.0)	
0	Particulate Mutter (+10pm)	micro gmim2	IB: 5182 (Part 23)_(O)	100 24 HR	212	
8	Puriculate Matter (<2.5um)	micro graim3	IS 5182 (P1-24), 2019 (O)	60 24 HR	102	
7	Sulphur Dioxide (SO2)	micro gmm3	IS: 5162 (Part 2) (O)	80.24 HK.	5.1	

-END-

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48, Lidayan Industrial Estate, 3, Pagledanga Road, Kolhele 700015 West Bengal

AMPo. - Jode, Dist. Keonjhar, Odiena - 758034 India

Tel. +91 7044036120 Email: Uduyaniab@milrask.com

Tata Steel Lid (MGM) Joda West







Scan for Portal

ULR: TC-895024000003056F

Tine No.: MSKADEWTRADI

TESTING #INSPECTION

TEST REPORT Name & Address of Customer:

Report No.:

MSKPL/ED/2023-24/D13110 Date: 27/02/2024

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

3000156017/056, Date - 16/09/2023.

MSKNB/ED/2023-24/02/T91079

12/02/2024 - 27/02/2024

Permanent Facility

Chemical

12/02/2024

We heraby certify that the following sample Drawn by us has been enalyzed with the following results:

1, Group	Almospheric Pollution		
2. Description of sample	Ambient Air		
3, Unique identification of sample(if any)	NA NA		
Date of sampling	09/02/2024		
5, Place of sampling	Near Sangeguda Pit-JW/MM		
. Environmental conditions during sampling & Transport	1) Temperature: 13-24 deg C 2) Barometric Pressure: 712 mm of He 3) Plan for		
Sampling Plan & Method used	No & Cold Chain Maintained IS:5182(P-11,12) & USEPA		
I Identification of the personnel performing sampling by MSK	Lalin Kumar Naik, Pratik kumar mantri		
P. Field Equipments Used	MSK/BBL/FIELD/RDS-4		

Report No.: MSKPL/ED/2023-24/D13110

Sample No.: MSKNB/ED/2023-24/02/T91079

RESULT

Chemical							
Si No.	Parameter	DOM	Method	Limit	Result		
- T-	Arsenic as (As)	ng/m3	USEPA-JO 3.4, June	6 (Annual)	BDL(DL 1.0)		
2	Benzese	micro greviniš	(6.5182 (Part 11)	5 (Annual)	BDU(DL-4.2)		
3	Benzo(a)Pyrene	rig/m3	IS 5182 (Part 12)	1 (Annual)	BOL(DL-0.5)		
4	Lead (at Pb.)	micro gmm3	USEPA40 3.4, June	1 (24 Hours)	0.02		
5-	Manganese as Mr.	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.20		
5	Nickel as MI	ng/m3	USEPA4O 3.4, June	20 (Annual)	8DL(DL:5.0)		

Oplnion:

Limit as per CPDB conflortion, New Dalo. 18th November 2009, for Amolest air quality

Statement of Conformity NA

END-

Revenued By-

PARTY

Designation Busine Chapter Asserting Springry

Signature

LEGISTERS.

The name to relate easily to the detect present.

This Test Report shall not be represented assign in full, velocus on pervisors of Mara & K. Phwes Limited.
The results of gave part of year parts for Passage Info. Note: possible were part of year part of year parts for Passage Info. Note: possible were part of year parts for the Test Report. Pershabe sample(s) shall be resulted to remove the time of locus of the Test Report. Pershabe sample(s) shall be resided to draw.

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Head Office: Biracts Covins (St) Floor, 748, K.J.C. Stee Root, Kolenia - 100016, West Bergal, India. Tel: 191 33 00143000 / 20000007 Fau: 91 33 004000000 Essay: Info@contest.com / Violette - rever militage com

Address of Branch:

P.O. Barba Dt Keonyser Onsso 756 035





Seen for Payral

Name & Address of Customer:

Teta Stref Ltd (MGM)_Joda West

At/Po. - Jodn. Diet. - Keonjhat, Oklaha - 758034 India Pin

TEST REPORT

Report No. :

MSKGL/ED/2023-24/04/881

Date :

Reference No. & Date :

19/02/2024

Sample No. :

M8KGL/ED/2023-24/02/00274

3000158017/056; Date - 15/09/2023

We hereby consty that the lokowing sample Dream by its has been analyzed with the following results:

1. Group	AIR	
2. Description of sample	Ambiuni Air	-
3. Unique identification of sample(if any)	Jode West Iron & Manganese Mines (JWIMM)	-
4. Date of sampling	09/02/2024	-
5. Place of sampling	Near Congeiguda Pft	-
8. Environmental conditions turing sampling & Transport	Cloar & Sunny	-
7. Sampling Plan & Method used	NA.	-

Report No.: MSKGUED/2023-24/004881

Sample No.: MSKGL/ED/2923-24/02/90274

RESULT

SINO:	Parameter	MOM	Method	Lies	Résult
1	Ammonia (NH3)	micro gm/m3	15 5182 (Per 25)	400 24 HR	14.6
2	Carbon Monoxide (CO)	mg/m3	(S: 6182 (Part 10), (D)	2.0H()	0.57
3	Nitrogon Dioxide (NCQ)	micro gm/m3	IS: 5182 (Part 5) (O)	80 24 HR.	21.1
4	Daone (Od)	fraces amm3	15 5182 (Part 9)	180 1 HR.	BDL(DL:200)
5	Particulate Matter (<10um)	Criving craim	IS: 5182 (Pwt 23)_(O)	100 24 HR.	142
8	Particulate Matter (<2.5um)	Emittig orbitin	(S \$182 (PT-24),2019_(O)	60 24 HR.	59
7	Sulphur Dioxide (502)	micro grim3	IS: 5182 (Part 2) (O)	80 24 HR	7.6

---- END ----

Report Verified By

For Mitra S. K. Private Limited

DIST NO. MISHOGENATURE









ULR: TC-R95024000003079F

Name & Address of Customer :

Tata Binel Ltd.(MGM)_Jode West.

Address of Laboratory:

West Bennel Tel :+91 7044035120 Email: udayanlab@mitrask.com

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

AVPo. - Jode, Dist. - Knonner, Ocisha - 758034 India

TEST REPORT

TC-6950

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/J13389

27/02/2024

MSKNB/ED/2023-24/02/N82EAH

17/02/2024

17/02/2024 - 27/02/2024

Parmanent Facility

3000158017/056; Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

1. Group	Almospheric Pollution	
2. Description of sample	Ambient Air	
3. Unique identification of sample(If any)	NA NA	
L Data of sampling	15/02/2024	
5. Place of sampling	Near Railway Siding	
5. Environmental conditions during sampling & Transport	1) Temperature: 18-25 deg C 2) Barometric Pressure: 714 mm of Ma 3) Rain:	
J. Sampling Plan & Method used	No & Cold Chain Maintained IS-5182(P-11,12) & USEPA	
3. Identification of the personnel performing sampling by MSK	Mukesn inbury, Lakn Neik	
3. Field Equipments Used	MSK/BSLFIELD/RDS-3	

Report No.: MSKPL/ED/2023-24/J1338B

Sample No. : MSKNB/ED/2023-24/02/N825AH

RESULT

Chemical						
51 Mo.	Parameter	UOM	Method	Limit	Hasaft	
T	Arsenic as (As)	rig/m3	USEPA-IO 3.4, June	6 (Annual)	BOL(DL-1,0)	
2	Berzene:	meero gmim3	IS 5182 (Part 11)	5 (Annual)	BDL(DL-4.2)	
3	Benzo(a)Pyrane	Emitgri	(S 5162 (Part 12)	1 (Annual)	BDL(DL:0.5)	
4	Lead (as Pb.)	mioro.gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02	
5	Manganese sa Mil	miara gm/m3	USEPA-IO 3-#: June	Not Specified	0.40	
6.	Nickel as Ni	ng/m3	USEPA-10 3.4. June	20 (Annual)	BDL(DL-5.0)	

Opinion:

Limit as per CPCB hotification, New Decr., 18th Movember 2009, for Ambient of quanty

Statement of Conformity

END.

Revised By

Mb Plai Dargin

Designation

Employe Change

Authorized Sterman

Dignature

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The results relead only to the havget tasset

The Teach report shall not be represented except in full, without the personance of idea 5.K. Penelle Limited.
The Tea Report shall not be represented except in full, without the personance of idea 5.K. Penelle Limited.
The report of control searches) for Elemented entires (No.1 - personale entereds) Food, Waster) shall be retrieved for 15 caps into the case of lands of the Teal Report. Period entered and the retrieved Entered. from the date of leave of the Test Report.

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Address of Branch :

P.D. Barbii Di Keonthar Orissa 758 035





Scan for Portal

Name & Address of Customer :

Teta Shini Ltd (MCM) Joda West

AbPa, - Joda, Dist. - Koonjuer, Odisha - 755034 India Pin

TEST REPORT

Reference No. & Date:

Report No.: Date:

26/02/2024 Sample No.:

MBKGL/ED/2023-24/02/00751

MSKGL/ED/2023-24/094949

3000156917/056, Date - 15/09/2023

We hereby curry that me tollowing sample Drown by his has been analysisd w

1, Group 2, Description of sample	AIR
2. Unique Identification of sample(# any)	Addison Ali
4. Date of sampling	Joda West hoo & Mr Mines
5. Place of sampling	15/02/2024
f. Enginemental readily and the	Near Railway Sirling
6. Environmental conditions during sampling 6. Transport 7. Sampling Plan & Method used	Class & Surriy
. Sandard Linu d wedled rised	NA

Report No.: MSRGL/ED0003-24004943

Sample No.: MSKGL/ED/2023-24/02/00751

RESULT

Bi No.	Peramole	DOM		-	
7	Amount of the said	- GC-W	Milliod	Limit	Result
2	Ammonia (NFG)	micro gm/m3	IS 5182 (Part 25)	400 24 HR.	
4	Carbon Memovide (CO)	mg/m3	IS: 5182 (Part 10) (O)	9 7 7 7 7 7 7	15.8
3	Minigen Distrible (NG2)	micro gm/m3		Z BHR.	0.59
4	Oznas (Ca)	micro gm/m3	IS: 5182 (Part 6) (O)	80 24 HR.	21.5
5	Particulate Mutter (<10um)		US 5182 (Part 8)	380 1 HR.	BOLIDL 20 (I)
6		micru gmim3	IS: 5182 (Part 23)_(O)	100 24 HR	220
-	Personale Matter (<2.5um)	maro gmins	IS 5482 (PT-24)(2019 (O)		
	Sulphui Dimode (SO2)	rmore amind	19: 5182 (Part 2) (O)	60 24 HR.	106
		-	and the second second	30 24 FIR.	8.0

Report Verified By

Head Office:

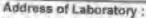


For Mitra S. K. Private Limited

Authorised Signatory

DIE NO MEKISENTIMO





Solding No. P. 46, Udayan Industrial Estate, 3, Pagledanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044038120 Email: udayarisb@mitrasii com





Scan for Portal

ULIC TO-6950240000003080F

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

Al/Po - Inda, Dur. - Recrimar, Oussta - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/R13383

27/02/2024

MSKNB/ED/2023-24/02/XQ2ED2

17/02/2024

17/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hareby certify that the following sample Drawn by us had been energiated with the following results:

1. Group	Atmospheric Poliulian		
2. Description of sample			
3. Unique Identification of sample(if any)	Ambient Air		
4. Date of sampling	NA Japanese		
5. Place of sampling	15/02/2024		
6. Environmental conditions during sampling & Transport	Near Gangeigudu Pit 1) Temperatum (18-26 deg C 2) Borometro Pressure: 714.mm of Fig 3) Rain the 5 Cold Control Manual Control of Fig 3) Rain		
Sampling Plan & Method used	No. & Cold Chain Maintenned IS-9182(P-11,12) & USEPA		
Identification of the personnel performing sampling by MSK Pleid Equipments Used	Mukesh Hiburu, Lafin Nak		
Transfer of the same	MSK/BBLF/ELDR05-4		

Report No. : MSKFL/ED/2023-24/F13383

Sample No.: MSKNB/ED/2023-24/02/XQ2ED2

RESULT

Chemical						
SI Na.	Parameter.	LIONE	Method	Limit	Result	
11	Arsenic as (As)	ng/m3	LISEPA-IO 3.4. June	5 (Annual)		
2	Bentzene	micro gm/m3	(\$ 5182 (Part 11)	5 (Annual)	BDL(DL·1/0)	
3	Benzo(a)Pyrone	mg/m3	15 5182 (Part 12)	1 (Annua)	BDL(DL 4.2)	
- 4	Lead (as Pb.)	micro gm/m3	USEPA-10-3.4. June	1 (24 Hours)	BDL(DL:0.5)	
5	Manganese as Mn	micro gravnia	USEPA/ID 3.4 June	Not Specified	BDL(Dt:0.01)	
8	Nickel as Ni	0g/m3	USEPA-IO 3.4, Juna	20 (Annual)	0.17	
Spinlan :	I lead not need come	er materials when he is	20 17 20 17	and (providing)	BDL(DL:5 0)	

Opinion:

Limit as our CPCB nullfication. New Polity, 18th November 2009, for Ambient air quality

Statement of Conformity NA.

END

Revenues By

Sym

Marin

Designation Drecotive Company Automod Signers

Laid in chierry

The recess enters only to the territory beard.

The Test Report shall not be depreciated except in the velocit the permission of Miller S. K. Private Limited.

The received part of complete, for president energies, floor - persistate permission shall be related by related for the region of the Test Report.

Per involve date of the Test Report.

The resource currently for members is subject (Soc. Societ & Louist Where) shall be recurred for 15 days on sele CPCB grademe & (An 1 interest from the date of assess of the Treit Report.
The resourced curr of exceptable for the order sample (Non - parahophs sample) is cost. Second Water Second Societ Second Society Second Head Office: Sharey Carter (Rh Floor), 748, A.J.C. Bose Road, Kottom -700018, When Sampal, India Tell -Rt 33.40143300 / 20000007 Fee: 91.33.22200001 Ereal: Info@microskir.com V/ctode: Wesk reforms pain

Address of Branch:

P.O. Barbii Di Keonjhir Onssa 758 035





Span for Perral

Name & Address of Customer:

Tata Steel (Jd.;M/SM) Joda Weid

AliPo - Joda Dist. - Keonjhar, Odisha - 758034 India Pin

TEST REPORT

Report No. :

Date :

Sample No.:

Reference No. & Date :

20/02/2024

MBKQL/E0/2023-24/02/00752

MSKGL/ED/2023-24/004989

3000158017/056, Dale - 15/09/2023

We havely carely that the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by us has been implicated with the following sample Drawn by the description of the property of the description of the

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique Identification of sumple(if any)	Joda West Iron & Min Mines	
4. Date of sampling	15/02/2024	
5. Place of sampling	Nior Gange guda Fit	
6. Environmental conditions during sampling & Transport	Clear & Surry	
7. Sampling Plan & Method used	NA.	

Report No.: MSKGL/ED/2023-24/00/839

Sample No.: MSKGL/ED/2023-24/02/00752

RESULT

SI No.	Parameter	UOM	Auto	To the second	_
an mag	C-distances.	UUM	Method	Limit	Result
1	Ammonia (NH3)	(micro gm/m3	IS 5182 (Part 25)	400 24 HRL	15.7
2	Carbon Monoxide (CO)	mg/m3	III: 5162 (Part 10) (O)	2 BHR.	0.54
3	Minogen Dioxide (NO2)	more griving	IS: 5182 (Part 6) (O)	80 24 HR	20,7
4	Ozone (O3)	micro granti3	JS 5182 (Part 9)	180 11/17.	BOL(DI:20.0
3	Particulate Matter (<100m)	Enlarg grown	45: 5182 (Part 25) (O)	100:24 HR	187
- fi	Personate Matter (<2.6um)	man gmm3	IS 5182 (FT-24) 2018 (C)	80 24 HR.	90
7	Sulphur Dioxide (SO2)	mian pmins	15: 5182 (Part 7), (O)	80 24 HR.	7.4

- FIND -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel., #81 7044036120 Email udsyaniab@mitrask.com





Dec No. MSWGENITHWAY



MSKPL/ED/2023-24/91314S

17/02/2024 - 27/02/2024

Permanent Facility

MSKNB/ED/2023-24/02/082EgF

ULR: TC-695024000003076F

Tata Steel Ltd. (MGM) Joda West

Name & Address of Customer:

Al/Fo. - Joda, Dist, Keonjhar, Orlisha - 758034 Unitis

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

3000156017/056, Date - 16/09/2023

Chemical

27/02/2024

17/02/2024

We hereby partify that the following sample Drawn by us has been enalyzed with the following results.

1. Group	Atmospheric Poliution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if arry)	NA NA
4. Date of sampling	15/02/2024
5, Piace of sampling	Naar Time Office.
6. Environmental conditions during sampling & Transport	1) Temperature 18-26 deg C 2) Barometric Pressure: 714 mm of He 3) Page Int
7. Sampling Plan & Method used	No & Cold Chain Maintained IS:5162(P-11,12) & USEPA
 Identification of the personnel performing sampling by MSK 	Mukesh Hiburu, Laiin Naik
9. Finid Equipments Used	MSKIBBL/FIELD/RDS-2

Report No.: MSKPL/ED/2023-24/913145

Sample No. : MSKNE/ED/2023-24/02/082E9F

RESULT

Shemical							
SI-No.	Parameter	UOM	Method	Limit	Result		
1	Americ as (As)	ng/m3	USEPA-IO 3.4, June	8 (Annual)	BDL(DL:1.0)		
2	Benzena	micro gm/m3	(6 5182 (Part 11)	5 (Annual)	BDL(DL:4.2)		
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Parl 12)	1 (Annual)	BOLIDE:0.58		
4	Lead (as Pb.)	Emitro gm/m3	USEPA-IO 34, June	1 (24 Hours)	BDL(DL:0.01)		
5	Manganese as Mn	minro gm/m3	USEPA-IO 3.4: June	Not Specified			
.6	Nickel as Ni	ng/m3	DSEPA-IO 3.4. June	20 (Annual)	0,31 BDL(DL:5.0)		

Opinion :

Limit as per CPCB notification, new Dehr, 18th November 2009, for Ambient air quality

Statement of Conformity MA

END-

Honomal by:

Figrature

Mr. Pol Gargay

Desprising

Elective Charge

SIMPLIN

Designation Kilo in commi

The reserved part of sample(s) by Microbiological analysis (Non., periodicial sample(s) Food. Seased Water, Sealed Society in the Report President Society of the Report Society of the Re

Head Office:

Stand's Cerics (3th Floor) 748 A.J.C. Bose Nond, Koltate, 700016, West Bergal, India Tel. 91 33 40145000 / 2540007 Fee: 91 33 22450008 Front: Inhabiteties.com Websito - www.customic.com

Address of Branch:

P.O. Barbil Di Kenryther Orbsta 758 035





Scan for Forms

Name & Address of Customer :

Tata Sinel Ltd.(MGM)_Jotts West

AliPo, - Jode, Dist. - Keonjhar, Odelhu - 758034, India Pin

TEST REPORT

Reference No. & Date :

Report No. ±

MSKGL/ED/2023-24/004038

Date:

20/02/2024

Sample No.:

MSKGL/ED/2023-24/02/00747

3000156017/056, Date - 15/08/2023

We hereby comity that the following sample Drawn by us has been anything following standard property and the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate that the following sample Drawn by us has been appropriate to the following sample Drawn by us has been appropriate to the following sample Drawn by us has been appropriated to the following sample Drawn by the Drawn

1. Group	AIR
2. Description of sample	Arritherij Air
3. Unique Identification of sample(if any)	Joda West Iron & Mn Mines
4. Date of sampling	15/02/2024
5. Place of sampling	Near Time Offices
6. Environmental conditions during exmelling & Transport	Clear & Suppy
7. Sampling Plan & Mathod used	NA.

Report No.: MSKGL/ED/2023-24/004938

Sample No.: MSKGL/ED/2023-24/02/00747

RESULT

unalysis Result of Ambient Air						
SI No.	Parameter	UOM .	Melhed	Limit	Result	
1	Anemonia (P0-63)	miano gar/m3	15 5182 (Part 25)	400 24 HR	15.2	
2	Cerbon Monusida (CO)	region3	(B: 5182 (Part 10), (O)	2 BHR.	0.85	
3	Nitrogen Dioxide (NCO)	Driving craim	IS 5182 (Part 5) (D)	80 24 HR.	22.7	
4	Ozone (O3)	tricro gm/m3	(\$ 5182 (Part 9)	180 1 HR.	BDL <20.11	
5	Particulate Matter (<10uts)	micro gmm3	(S; 5182 (Part 23) (O)	100 24 HR.	224	
8	Particulate Matter (<2.5cm)	micro gmind:	(S 5182 (FT-24),2019_(O)	60 24 HR	106	
-1	Solphur Dicode (SO2)	Inticro gmilled	IS: 5182 (Part.2) (O)	80 24 HR.	8.4	

END-

Report Verified By (186)

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladange Road, Kolketa 700015 West Benga

Name & Address of Customer:

Tel.: +97 7044030120

Email: udayan/ab@mitrask.com

Teta Steel Ltd (MGM): Joda West







Scan for Portal

ULR: TC-896024000003076F

Decrite. MISKIGITH/UNIT

TERTING + HERECTICA

TEST REPORT

Report No. :

MSKPL/ED/2023-24/E1338Q

27/02/2024

Date: Sample No.:

MSKNB/ED/2023-24/02/DG2EBR

Date of receipt of sample:

17/02/2024

Date(s) of performance:

17/02/2024 - 27/02/2024

Location of performance of

Pannaneni Facility

Reference No. & Date :

3000156017/055, Date - 16/09/2023

Discipline:

Chemical

We hereby carply that the following sample Drawn by us has been energed with the following results:

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique identification of sample(if any)	NA NA		
4. Date of sampling	16/02/2024		
5. Place of sampling	Near D-Quarry Sorting Yard,		
6. Environmental conditions during sampling & Transport	Temperature :18-26 deg C 2) Bardmetric Pressure: 714 mm of Hg 3) Rain I No 5 Cold Chain Maintained		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
8. Identification of the personnel performing sampling by MSK	Mukesh Hiburu, Lalin Naik		
9. Field Equipments Used	MSK/BBL/FIELD/RDS-8		

Report No.: M5KPL/ED/2023-24/E1338Q

NA

Sample No.: MSKNB/ED/2023-24/02/DG2EBR

RESULT

Chamical						
SI No.	Parameter	NOM	Method	Limit	Result	
1	Arsenic as (As)	Em/gn	LISEPA-ID 3.4 June	6 (Annual)	BDL(DL:1.0)	
2	Benzone	mioro gm/m3	15 5182 (Part 11)	5 (Annual)	BDL(DL,4,2)	
5	Sanzo(a)Pyrene	Emilian	(S 5162 (Part 12)	1 (Annual)	BOL(DL:0.0)	
4	Lead (as Pb)	miero gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02	
5	Manganese as Mn	minra gm/m3	LISEPA-10 3.4: June	Not Specified	0.38	
6	Nickel as Ni	ng/m3	USEPA-IO 3.4. June	20 (Annual)	21.5	

Opinian -

Limit as per CPGB not/leation, New Door. 18th November 2009, for Ambient or quality

Statement of Conformity

END

Revelwed By

SASTIFIAN

Daskyrististe

Swedin Owner

Number 2001 Suprement

Squalar

Designation

Ladi by other

The results table and purpo incopy tasket.

The Test Report and not be reproduced except to full, without the permission of Mirrs S. K. Private Liveau.
The reserved part of samples for other construct continue (Non-personal energials) from Vessel serves and the form the date of insure of the Test Report. Perentative lamphous and the recurrent to the date of insure of the Test Report.

This missioned part of sample(a) for discretization treatment (Sot. Solid & Liquid Waters) must be removed for 15 thoys as the CPCS guidalines & (Art 1 march from the code of sample of the Test Report.)
The meaning part of sample(a) for Microbiological contents (Non 1 periodological contents). Food, Sessed Water. Sessed food) shall be retained for 16 days from the code of unique of the Test Report.

AVPo. - Jada, Dist. | Keonihar, Odisha - 758034 India

Minne



P.O. Barbii Dt Keonihar Orisen 758 035





Name & Address of Customer:

Trita Stool Life (MISM)_.loda West

AtrPo. - Jmils. Dies: - Kaonitial, Odesha - 758034 India Pin

TEST REPORT

Report No. :

MSKGL/ED/2023-24/004945 Date: 26/02/2024

Sample No.:

MSKGL/ED/2023-24/02/00748

Reference No. & Date :

3000156017/056, Date - 15/08/2023

We naraty carrily that the following asimple Drawn by us has been

1. Group	AIR	
2. Dengription of sample	Accessori Air	
Unique identification of sample(if any)	Joda West from & Mr Miner	
f. Date of sampling	15/02/2024	
5. Place of sampling	New D-Ouany Sorting Yard	
Environmental conditions during sampling & Transport	Clear & Sunny	
7. Sampling Plan & Mothod used	NA.	

Report No.: MSKGUED/2023-24/004945

Sample No.: MSKGL/ED/2023-24/02/00748

RESULT

SI No.	Perameter	MON	Method	Linut	Rusuit
1	Amenoriu (NH3)	sitiono gravim3	IS 5182 (Part 25)	400 24 HR	14,5
2	Carbon Monmode (CO)	mg/m3	Ec 5182 (Part 10) (O)	2.8HR	0.54
3	Altrogen Dioxide (NO2)	micro gm/m/3:	IS: 5182 (Part 6) (O)	80 24 HR.	21.1
16	Ozone (O3)	micro gmin/3	(S 5182 (Part 9)	180 1 HR.	BCAL <20.0
0	Particulate Motter (<10um)	mioro grovus2	(S: 5182 (Part 23) (O)	100 24 MR	204
9-	Particulain Matter (<2.5um)	micro gm/m3	15 5182 (PT-24),2019 (O)	60 24 HR	98
T	Suphu Okoide (SO2)	Ent/my nesm:	IS: 5182 (Part 2): (O)	80.24 HR	7.4

END.

Report Verified By

For Mitra S. K. Private Limited - 30 -

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estato, 3, Pagladangs Road, Kolkata 700015 West Gengal Tel: +91 7044035120 Email: iidsyantab@mitrask.com







ULR: TC-695024000003077F

DOLNO: MENDEEN/1987

TESTING . HEPECTIO

Name & Address of Customer:

Tata Steel Ltd./MGM)_Jodn West

AliPio. - Joda, Dist. - Keonihar, Ocishe - 758034 India

TEST REPORT

Report No. ::

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUED/2023-24/41338K

27/02/2024

MSKNB/ED/2023-34/02/F02EEF

17/02/2024

17/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Cate - 16/09/2023

Chemical

We hereby cartify that the following sample Drawn by its has been analyzed with the following results.

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	15/02/2024
5. Place of sampling	Near D-Quarry Screen
6. Environmental conditions during sampling & Transport	1) Temperature :18-26 deg C 2) Barometric Pressure: 714 mm of Hg 3) Rain (all
7. Sempling Plan & Method used	No & Cold Chain Maintained IS:5182(P-11,12) & USEPA
B. Identification of the personnel performing sampling by MSK	Mukesh Hiburu, Lalim Nak
9. Field Equipments Usad	MSK/BBL/FELDROS-8

Report No. : MSKPL/ED/2023-24/41338K

Sample No.: MSKNB/ED/2023-24/02/FD2EEP

RESULT

Shemical She							
STNO	Parameter	UOM	Mathod	Limit	Result		
1	Arsenic as (As)	ng/ni5	USEPA-IO 3.4, June	& (Annual)	BDL(DL-1,0)		
2.	Benzerie	micro gm/m3	(8 5182 (Part 11)	5 (Annual)	BDL(DL:4.2)		
3	Benzo(a)Pyrane	rig/m3	IS 6182 (Part 12)	1 (Armuar)	BDL(DL:0.5)		
4	Load (as Pb)	micro gm/m3	USEPA40 3.4, June	1 (24 Hours)	BDL(DL:0.01)		
5	Manganese as Mn	Emiring graim3	DSEPA-IO 3 At June	Not Specified	0.13		
5	frickel as NI	tio/m3	USEPA IO 3 A, June	20 (Annual)	BDL(DC 5 ()		

Opinion:

Limit as per OPCB non cation, New Don, 18th November 2009, for Ambient or quality

Statement of Conformity NA

END

Signature

Designation

Florador Cherké

WHO DISTRIBUTED IN

The Test Report of the Rendo to the Rendo to the section of the restrict of the Report of the Report

The reserved part of sumplays for chamical enables (Soil, Soild & Liquid Visite) shart be reserved for 15 days as per CPCR guisaries & (Ar) if result from the date of source) fac Timi Report.
The reserved part of security for Microscoppial analysis (Mon - perintative samples) from Section (Weter, Section 1000) shall be retained for 15 days from the date of least of the least Report.

Street Corps (Str Floor), 749. A.J.C. Soos Road, Kotomis - 200016, Weet Singel, India. Tel. 197.33 401.03056 / 25550307 Fee: 191.33 52050306 Ethal - 47/98reflast.com Website - www.neimen.com Head Office:

Page 1 el1

Address of Branch:

P.O. Bartel Dt Koormer Orissu 758 005





Sent Bir Pertai.

Name & Address of Customer:

Tata Stew Ltd (MGM) Joon West

At/Po. - Jodn, Diet. - Keonjier. Oderna - 758004. India Pin-

TEST REPORT

Report No.:

MSKGL/ED/2823-24/004842 Date:

26/02/2024

Sample No.: MSKGL/ED/2023-04/02/00749

Reference No. & Date: 3000156017/056, Date - 15/09/2023

We transity certify that the following sample Drewn by us less be

1. Group	AIR	
2. Description of sample	Ambieni Air	
Unique identification of semple(if any)	Joda West iron & Mn Mines	
4. Date of sampling	15/02/2024	
5. Place of sampling	Near D-Guarry Screen	
8. Environmental conditions during sampling & Transport	Chair & Sunny	
7. Sampling Plan & Method used	NA	

Report No.: MSKGL/ED/2023-24004942

Sample No.: MSKGL/ED/2023/24/02/00749

RESULT

SI No.	Parameter	NOM	Method	Limit	Result
1	Ausmonio (NH3)	micro go/m3	19 5182 (Part 25)	400 24 HR	-
2	Carbon Monesette (CO)	mg/mB	IS: 5182 (Part 19), (O)		14.0
3	Nitrogen Dioxide (NO2)	/more gm/m3	IS: 5182 (Part 6) (D)	2 6HR.	0.61
4	Extens (C3)	micro gra/m3	IS STR2 (Part S)	80 24 HR	20.1
6	Porticulate Mutter (<10um)	micro graints	18: 5182 (Part 23)_(O)	100 1 HR	BDF(DC:5040)
B	Perficulate Matter (<2.5cm)	micro grama	The state of the s	100 24 HR.	152
7	Sulphui Dioxida (SO2)	En/mg mains	IS 8182 (PT-24),2019 (O)	60.24 HR.	13
	- The state of the	L Down Butter	IS: 5182 (Part 2) (O)	80 24 HR.	6.3

Report Verilied By

Head Office:

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48: Udayan Industrial Estate 3, Pegladanga Road, Kolkata 700015 West Bengal

Tell :+91 7044036120 Email: udayan/ab@mitrask.com







Soun for Portal

ULR: TC-695024000003078F

One No.: MAKKSEN 1950

I ESTING - INSPECTION

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda Weel

AnPo. - Joda Dist. - Keomhar, Ddinha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/Z1338H

27/02/2024

MSKN6/ED/2023-24/02/MQ2EC4

17/02/2024

17/02/2024 - 27/02/2024 Permanent Facility

3000156017/056, Date - 16/09/2023

Chemica

We havely certify that the Islaming sample Drewn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA .
4. Date of sampling	15/02/2024
5. Place of sampling	Near H-Quarry Rest Shaller
6. Environmental conditions during sampling & Transport	Temperature: (8-25 dag C, Z) Barometric Pressure: 714 mm of Hg 3) Rain fall No & Gold Chein Maintained
7. Sampling Plan & Method used	15:5182(P-11,12) & USEPA
B. Identification of the personnel performing sampling by MSF.	Mukesh Hiburu, Lalin Neik
B. Fleld Equipments Used	MSK/BBL/FIELD/RDS-1

Report No.: MSKPL/ED/2023-24/Z1338H

NW

Sample No.: MSKNB/ED/2023-24/02/MQ2EC4

RESULT

Chemical						
Silio.	Pacamelor	now	Mothod	Limit	Result	
4	Arsanic os (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL 1.0)	
2	Benzene	mioro grevim3	IS 5182 (Part 11)	5 (Annual)	BDL(01:4.2)	
1	Benzo(ir)Pyrene	mg/m3	(\$ 5182 (Part 12)	1 (Annual)	BOL(DL:0.5)	
4	Lead (as Pb.)	micro gm/m3	USEPA/ID 3.4; June	1 (24 Houts)	90.0	
5	Manganese as Mr	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.27	
8	Nickel as Ni	ng/m3	USEPA-ID 3.4, June	20 (Annual)	BOL(DL:6.0)	

Opinion:

Link as per CPCB notification, New Delhi, 18th November 2009, for Ambient or quality

Statument of Conformity

END

Mr. Print Construit

Davigration

Emprison Chemin

Authorized Signature

Signiore

PARTIO

Спладишеся

The results relate only to the average treated

This Tiest Report shed that be interferenced discopt to full, without the permission of Mike 8 K. Private Limited.

The resourced part of exempla(b), for character analysis (falls - pinetrality services) Food, Weise) shall be returned by 15 tags from the date of linear of the flat (fall poor). Protestoire services) that be returned from from the date of laws of the Test Report.

The interval part of exception is for shaked analysis (Scr., Sold & Liquid Wasse) et all to commod by 15 tags as per CPCB guaraine & (AV) 1 munti literal to the of true of true Scr. Report.
The interval part of exception in Microsological analysis (Man. - perintable samples)) hood, Seeled Wasse, Symbol Wasse, Symbol Inc. of the Complete of the Comp

Bhack Cares (Sh. Fiber), 749, A.J.C. Sone Road, Kotone -700040, When Berryal, Widell Tel. (9): 33.4014(000) 22980007 has 191.33.20000000 fiber | btoppedimention, Whiteley, www.hybees.com

Page 1 of t



Address of Branch :

P.O. Barne Dr. Knonihar Chessa 756 085



TEST REPORT

Name & Address of Customer:

Tota Steel Ltd./MGM)_Joga West.

ASPo. - Jose Dist. - Keonfrar, Odiene - 788084 India Pin

Report No. :

MSKGL/ED/2023-24/004946

26/02/2024 Date:

MBKGL/ED/2023-24/02/00750 Sample No.:

2000156017/055, Oate - 15/09/2023 Reference No. & Date :

wing sample Drawn by us hav been analyzed with the fullawing results:

he herapy county how the regowing sample contain by its imposition	AIR
1. Group	Ambient Air
2. Description of sample	Jode West York & Mn Minas
3. Unique Identification of sample(if any)	15/02/2024
4. Date of sampling	Near H-Guarry Reel Shotter
5. Piece of sampling	Clour & Surmy
Environmental conditions during sampling & Transport	NA:
7. Sampling Plan & Method used	193

Report No.; MSKGL/ED/2023-24/00/48/6

Sample No.: MSKGL/ED/2023-94/02/90750

RESULT

State Particulate Matter Matter	nalysis i	Result of Ambient Air	7	10 m a	Limit	Result
Aminoral (NH3) micro graha3 ES 5162 (Part 25) 400 24 MPL	SI No.	Parameter	UOM	Method	The state of the s	1000000
2 Carbon Monorada (GO) mg/m3 IS: 5182 (Part 10) (O) 2 8HR. 3 Nihogan Dioxide (NO2) micro gm/m3 IS: 5182 (Part 6) (O) 80 24 HR. 4 Coone (O3) micro gm/m3 IS: 5182 (Part 9) 180 1 HR. 5 Purticulate Martar (<10 m) micro gm/m3 IS: 5182 (Part 2)) (O) 100 24 HR. 6 Particulate Martar (<2,0 m) micro gm/m3 IS: 5182 (Part 2)) (O) 50 24 HR.	21,000	Ammunia (MAIS)	micro molen3	ES 5162 (Part 25)	400 24 MFL	14.8
2 Carpon Mondation (CO)	3			18: 5182 (Part 10) (O)	2 8HR	0.59
3 Nerogan Debree (NCV)	2				80:24 HR.	21.7
6 Coone (CO) micro grates (cr. 5/15c (Fart 2)) (CI) 100 24 HFI. 5 Particulate Matter (<10 ms) micro grates (s. 5/182 (Fart 2)) (CI) 100 24 HFI. 6 Particulate Matter (<2,5 ms) micro grates (s. 5/102 (F1-24),2018 (CI) 50 24 HFI.	3	Nitrogan Dioxide (NO2)			180 1 FFE	BDL/DL:2000
5 Particulate Matter (<10am) micro grains 18.5102 (PT-24) 2018 (O) 50 24 HR. 6 Particulate Matter (<2,0am) micro prints 18.5102 (PT-24) 2018 (O) 80 24 HR.	- 6	Cuone (C3)	micro gm/mil			204
6 Parsoviani Matter (<2,5um) mizru prima IS 5192 (PT-24),2018 (C) 90 24 HR.	6	Purticulate Matter (<10cm)	micro gm/m3			-
6 Paradian results (1-2-2011) 10 80 24 HFL		- The state of the	micro unim3	IS 5102 (PT-24),2019 (O)	50 24 HR.	99
	0	Sulviur Herriste (SOZ)	micro gm/m3	IS: 5182 (Part 7) (O)	88 24 HFL	7.2

END

Report Verified By

Head Officer



For Mitra S. K. Private Limited



Address of Laboratory :

Burding No. P. 45: Udayan Industrial Estate. 3, Fagladanga Road, Kelkata 700015 West Burgai

Name & Address of Customer:

At/Po. - Jodg, Dai. - Recojest, Odisha - 758034 India

Tata Slee Ltd.(MGM)_Joda West





TC-8950



Scan for Portal

ULR: TC-699024000003082F

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/513383

27/02/2024

MSKNB/ED/2023-24/02/6L2EDT

18/02/2024

19/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Atmospheric Poliulion
Ambient Air
NA .
16/02/2024
No. of Course Puring Yard
1) Temperature :18-27 deg C 2) Barometric Pressure: 714 mm of Hg 3) Rain full
No & Cold Chain Maintained
(S.5182(F-11,12) & USEPA
Prailik Mentri Akash Kr. Setti
MSK/BRUFIELD/RDS-6

Report No.: MSKFL/ED/2023-24/513383

Sample No.: MSKNB/ED/2023-24/02/5L2EDT

RESULT

Chemical					
Bi No.	Parameter	LIOM	Method	Limit	Result
as No.		ma/m3	USEPA-IO 3.4, June	E (Annual)	BDL(DL:1,0)
1	Arsenic as (As)	-	1S 5182 (Part 11)	5 (Annum)	BOL(DL:42)
2	Beozene	micro gm/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)
.31	Benzia/B)/Pyrane	ng/m3		1 (24 Hours)	0.03
4	Lead (as Fb.)	micro gm/m3	USEPA-IO 3.4. June		0.16
5	Manganese as Mn	micro gmim3	USEPA-IO 3 A: June	Not Specified	
*	Nickel as NI	ng/m3	USEPA4O 3.4, June	20 (Annsasi)	7.0
Comment and Lot					

Opinion:

Limit as per GPCB notification, New Daths. 13th November 2009, for Ambient ar mostly

Statement of Conformily

END

Sqrutim

Usugi Way Darczenie Drinner

Authorized Signatory

Str water

Dingsairt

Into the or respon

The results white only to be strong to be supplied as full, without the pure location of Mitta 5. K. Privers Language.
The Vasal Report of the Distriction of the Control of Section 1. Sec

Head Office:

Sireoff Centre (601 Floor), 748, A.J.C. Boxo Road, Robuss - 70(016, Visual Barryal, Public Tel: 21 33 40343000 / 2585000 Fpc; 31 35 22850000 Fraid: Hologopotes Latar Walterlay (4000 61808, 2011)



Address of Branch:

P C. Reda Dt Keomher Ortesa 758 035.



Sens for Portal.

Name & Address of Customer:

Tata Steel Ltd (MGM), Joula West

AiPa, - Jody, Dist. - Keorghur, Odelra - 758034. India Pin

TEST REPORT

Report No. :

Date :

Sample No.:

Reference No. & Date :

MSKGL/ED/2023-24/004948

26/02/2024

MSKGL/ED/2023-24/92/90754

2000156017/056, Date - 15/0903023

We havely certify that the following swinple Drawn by us has been wallyzed with the following results:

As picked certify fraction resound; such a received	AIR
f, Group	Ambirni Air
2. Description of sample	Joda West Iron & Mr Mines
Ureque Identification of sample(if any)	1602/2024
4. Date of sampling	Near D-Curry Sorting Yard,
5. Place of sampling	Clear & Saintry
6. Environmental conditions during sampling & Transport	
7. Sampling Plan & Method used	INA.

Report No.: MSKGL/ED/2023-24/004948

Sample No.: MSKGL/ED/2023-24/02/00754

RESULT

inalysis f	Result of Ambient Air			-	100000
	Paraomin	HOM	stepsod	Limit	Result
Si No.		vniero grnimiš	IS 5182 (Part 25)	400 24 HR	13.8
1	Ampionia (NH3)	6mpm	(5: 5182 (Part 10), (O)	2 8HR	0.47
2	Carbon Moneyde (CO)		(S) 5182 (Part 6) (O)	80 24 HIL	20.4
1	Mitrogen Dioxide (NO2)	micro-gm/m3	45 5182 (Part 9)	180 1 HR	BDL <28.0
4	Ogona (C3)	micro gmim3	18, 5182 (Part 23), (C)	100.24 HR.	204
5	Perfectate Matter (<10um)	micro gm/m3	The state of the s	60 24 HR	98
8	Particular Matter (*2.5um)	mion gm/m3	ts 5182 (PT-24),2019 (O)	80 24 HR.	7.4
*	Bulcher Dioxide (SO2)	micro gm/m3	(S: 5182 (Part Z) (O)	80 29 FPC	1.04

- END -

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Hered Office: Shorte Control

Address of Laboratory :

Building No. F. 48; Udayan Industrial Estate, 3. Pagisdanga Road, Kohata 700015

West Bengat Tal.: +91 7044036120

Email: udayaniate@mitrask.com







Scan for Portal

ULR: TC-695024000003083F

Don No. MERCEPHICANY

Name & Address of Customer:

Tata Steel Ltd (MGM)_Inde West

AI/Po. - Joos, Dist. - Keonjner, Odisha - (58034 India

TEST REPORT

Report No. :

Date:

Sample No. ;

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/51338T

27/02/2024

MSKNB/ED/2023-24/02/NK2E99

10/02/2024

19/02/2024 - 27/02/2024

Remanant Facility

3000156017/056, Date - 16/09/2023

Chemica:

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

(b) terriary dealed that the same of	Atmospheric Pollution
(, Group	Ambient An
2. Description of sumple	NA .
3. Unique Identification of sample(if any)	16/02/2024
Date of sampling	N. S. D. Comm. Science
5. Place of sampling	Temperature: (8-27 deg C 2) Barometric Pressure: 714 mm of Hg 3) Rain fall
6. Environmental conditions during sampling & Transport	No & Cold Chain Maintained
7. Sampling Plan & Method used	JS:5182(P-11,12) & USEPA
8. identification of the personnel performing sampling by MSK	Pratik Martiri Akash Kr. Settl
8. Identification of the personner performing sangang of mon	MSK/BBIJFIELD/ROS-8
9, Field Equipments Used	MSK/BBL/FIELDIROS-8

Report No.: WSKPL/ED/2023-24/51336T

Sample No.: MSKNB/ED/2023-24/D2/NKZE98

RESULT

homical					T
51 No.	Parameter	NOW	Muthod	Limit	Result
31 140		mg/m3	USEPAJO 34, June	ti (Annual)	BDL(DLH,0)
1	Arsenic as (As)		IS 5182 (Part 11).	5 (Annual)	BDL(DL:4.2
2	Benzeno	mem gm/m3		1 (Annual)	BDL(DL:0.5)
3	Banzo(a)Pyrene	ng/m3	(6 5162 (Part 12)	1 (24 Hours)	0.04
4	Lead (as Ph)	Enting craim	USEPA-IC 3.4, Junii		0.28
	Mangenese as Mn	milara gm/m3	USEPA-IO 3.4: June	Not Specified	34.4
B	Nickel on Ni	ng/m3	USEPA-ID 3.4, June	20 (Annual)	27.2

Opinion:

Limit as per CPCB notification, New Desa, 16th November 2009, for Ambient as county

Statement of Conformity

END

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Skylker

Mr. Philips Clarge RV

Designation

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Structi Certile (Str Floor), 745, A.A.C. Stree Bland, Kollumn - 700015, West Songel, India Tol., 61, 53-601-60000 / 22600007 Par., 91 30, 23650000 Head Office: Ereal Vindermak.com Vietnica www.nermi.com



Address of Branch:

P.O. Barbi Di Kuonjhar Oriesa 758 035



TEST REPORT

Name & Address of Customer:

Tata Steel Lier, (MCIM) Joda West

AtPo. - Joda, Dist. - Keonfrer, Orisks - 758034 lette Pin

Report No. :

Date: Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/004940

28/02/2024

MSKGL/ED/2023-24/02/00758

3000156017/056, Date - 15/09/2023

rule Drawn by us has been musiyzen well the sollowing results.

1, Group	AIR
	Ambient Att
Description of sample Unique Identification of sample(If any)	Joda West tran & Mir Minus
4. Date of sampling	16/02/2021
5. Place of sampling	New D-Outery Screen
6. Environmental conditions during sampling 8. Transport	Clour & Surmy
The Aller The Blacked used	NA

Report No.: MSKGL/ED/2023-24/00/040

Sample No.: MSKGL/ED/2023-24/02/00755

RESULT

Analysis F	Result of Ambient Air				
SI No.	Paramete	Hom	Method	Limit	Result
SI NO.		Conting oxages	is 5182 (Part 25)	400 24 HR.	14.5
1	Ammonte (NH3) Certien Monavide (CO)	mg/m3	IS: 6182 (Part 10) (O)	2 8HR.	0.43
2	Nitroen Dioxide (NO2)	man gm/m3	15: 5162 (Part 6) (O)	80 24 HR:	20,0
-	Ozoni (D3)	miors gm/m3	(S 5182 (Part 9)	180 1 HR.	BOL(OL:20.0
4	Particulate Molliar (<10um)	Criting arales	19: 5182 (Part 23)_(CI)	100 24 HR	186
4	Pariculate Matter (<2.5um)	mine gram)	IS 5182 (PT-24),2019 (O)	90 24 HR.	75
	Sometim Dissister (SD2)	Cn/mp orain	IS: 5182 (Part 2)_(D)	.00.24 HFL	B.1

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 46, Udayan Industrial Estate. 3, Pagladariga Road, Kolkala 700015 West Bengal

Name & Address of Customer :

AMPO - Jods Dist - Keonthar Odisha - 758334 Inches

Tata Stant Ltd. (MGM) Joda West

Tel.; 491 7044036120

Email udayanlab@mfrask.com







Scan for Purtal

ULR: TC-6950240000000084F

THIS NO. MEKIGENHAM

TEETING « INSPECTION

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/31338M

27/02/2024

MSKNB/ED/2023-24/02/WF2EE5

19/02/2024

19/02/2024 - 27/02/2024

Parmanent Facility

3000158017/056, Data + 16/09/2023

Chemical

We hereby certify that the following sample Drawn by its has been analyzed with the following results:

Almospheric Polistian
Amhient Air
NA .
16/02/2024
Near H-Quarry Rest Shotter
Temperature :18-27 deg C 2) Berametric Pressure: 714 mm of Hg 3) Ruin fall
No S. Cold Chain Maintained
IS:5182(P-11,12) & USEPA
Pratik Maniri Akash Kr., Setti
MSK/BBLFIELD/RDS-1
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

MSKPL/ED/2023-24/31338M Report No.:

Sample No.: MSKNB/ED/2023-24/02/WF2EE5

RESULT

Chemical					
Si No.	Parameter	UCHI	Method	Limit	Result
Birne.		ng/m3	USEPA-IO 3.4, June	6 (Annual)	BOUDL10
4	Arsenic as (As)		(S 6182 (Part 11)	5 (Annual)	ROLDL 121
2	Bengane	Inform gm/m3		1 (Arinual)	BDL(DL:0.5)
3	Велго(а)Рульле	eg/m3	IS 6182 (Part 12)	1 (24 Hours)	BOL(DL:00))
4	Lead (as Pb.)	micro gm/m2	USEPA-IO 3.4, June		0.13
	Mangamese as Mn	micro gratm3	USEPA-ID 3.4: June	Not Specified	
	filiciosi as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)

Opinion

Limit as per CPC8 rollfication. New Datri, 18th November 2889, for Associate disquality

NA Statement of Conformity

END

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Arthorised Signistory:

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Address of Branch:

P.O. Borbi Di Kaombar Orissa 758 035



TEST REPORT

Name & Address of Customer:

Tain Sheet Ltd. (MGM) _loca West

AttPo. - Joda, Dist. - Keonjhar, Odmha - 755004 Imia Pin

Report No. :

Date: Sample No. :

Reference No. & Date :

MSKGE/ED/2023-24/004941

26/02/2024

MSKGLJED/2023-24/02/00756

3000156017/056, Oate - 15/09/2023

male Drawn by us has been analyzed with the following results.

Vo namely certify that the torowing sample content by as-	AR
1. Group	Amtikatri Alir
2. Description of sample	Joda West fron & Mr Minos
3. Unique Identification of sample(if any)	16/92/2024
4. Date of sampling	Near H-Quarry Rest Sheller
5, Place of sampling	Clear & Sarwey
6. Environmental conditions during sampling & Transport	
7, Sampling Plan & Method used	NA .

Report No.: MSKGI (ED/2023-24/064941

Sample No. ; MSKGL/ED/2023-24/02/00756

RESULT

natysis F	Result of Ambient Air			-	1
	Patamusus	HOM	Muthod	Limit	Resett
Si No.		migra gm/m3	IS 5192 (Part 25)	400 24 HR.	15.7
1	Armonis (NHS)		(S: 5182 (Part 10) (O)	2 SHR:	0.56
2	Carbon Monoxide (CO)	mg/m3	(S: 5182 (Part 8) (O)	80.24 HR.	21.6
3	Nitrogen Dioidde (NO2)	Imisro gm/m3	15 5 182 (Part 9)	TRO THR.	BDL(DL:20.0
4	Ozona (CI3)	micro grains		100 24 HR.	211
5	Particulate Matter (<18um)	micro gravima	IS: 5182 (Part 23)_(O)	60-24 HR	102
8	Particulate Matter (<2 5µm)	miere gm/m3	(O) 8182 (PT-24), 2019 (O)	80 24 HR.	7.5
4	Sulphur Dioxide (SO2)	Emirro organi	iS. 5182 (Part 2) (O)	80 29 PM.	14

END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. F- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolista 700015 West Bengal

Name & Address of Customer:

AUPo - Joda Dist. Keenijhar Odisha - 758034. India

Tata Steel Ltd.(MGM)_Jode Wast

Tel.: +91 7044036120

Email: udayanlari@mitrask.com





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ULR: TC-695024000003061F

DOC NO. MSIVISEM TRATE

TERTINE A MISPECTION

TEST REPORT

Report No.:

Date:

Sample No. : Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/61538H

27/02/2024

MISKNB/ED/2023-24/02/JA2EAN

19/02/2024

19/02/2024 - 27/02/2024

Permanent Facility

3000158017/056, Date - 16/08/2023

Chemical

We hereby centry that the tollowing sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Poliction
2. Description of sample	Ambient All
Unique Identification of sample(If any)	NA
4. Date of sampling	16/02/2024
6. Place of sampling	Near Time Office
6. Environmental conditions during sampling & Transport	Temperature : (8-27 deg C 2) Barometric Pressure: 714 mm of Hig 3) Rein fall No. & Cold Chair Maintained
7. Sampling Plan & Method used	IS;6182(P-11,12) & USEPA
5. Identification of the personnel performing sampling by MSK	Pratin Mentri Akash Kr. Setti
8. Field Equipments Used	MSK/BBL/FIELD/RDS-7

MSKPL/ED/2023-24/81338H Report No. :

Sample No.: MSKNB/ED/2023-24/02/BAZEAN

RESULT

Chemical					-
SINO	Paramoier	NON	Mathod	Limit	Finsull
4	Arsenic as (Aa)	Cmign	USEPA-IO 3.4, June	6 (Annual)	BOL(DL14)
. 9	Banzano	micso gm/m3	(8 5152 (Part 11)	(Annual)	BOL/DL 4.2
3	Senzo(a)Pyreno	ng/m3	(S 5182 (Part 17)	T (Annual)	BDL(DL.0.5)
4	Lead (St Plb.)	micro gm/m3	USEPA-ID 3.4, June	1 (24 Hours)	0.02
6	Mangariese es Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.20
6	Nickel as Ni	na/m3	USEPA-IO 3.4, June	20 (Annual)	6.9

Opinion:

Limit as per CPCB normation, New Duhi, 19th November 2009, for Ambient air quality

Statument of Conformity. NA

END

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of Circuity

Designation

Eurodive Chevett

Waterpard Signatory

Owner

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Head Office:

Streets Cover (Str. Peopl. 748; A.J.C. Book Road Kolletta-100016, Well-Bernet exten-Tel: \$1.33.40143000 (20050007 Fair Of \$3722850008 Armai | #2-20144000 cm Viscada | www.midresk.com



P.O. Barbii Dt Keonthur Oriesta 755 035

Name & Address of Customer:

At/Po., - Joos, Cist. - Keoniher, Odlehir - 758004, India Pin

Tittle Steel Lift (MGM) under West





Scene for Portal

TEST REPORT

Report No. : Date :

MBKGL/FD/2023-24/004947

26/02/2024

Sample No.:

M8KGL/ED/2023-24/02/00753

Reference No. & Date : 3000156011

3000156017/056, Dale - 15/09/2023

We haveby cently that the following sample Drawn by us has been analyzed with the following results:

1. Group	AIR
2. Description of sample	Amblest Air
3. Unique Identification of sample(# arry)	Joda West fron & Mr Minas
4. Date of sampling	18/02/20/24
5. Place of sampling	Near Time Office.
6. Environmental conditions during sampling & Transport	Clear & Sunny
7. Sampling Plan & Method used	NA

Report No.: MSKGL/ED/2023-24/004947

Sample No.; MSKGL/ED/2023-24/02/00753

RESULT

Analysis Result of Ambient Air					
SINo.	Parameter	MOM	Memod	Limit	Remit
-1	Ammoria (NH3)	rmero gmimă	(\$ 5182 (Part 25)	400 24 HR	17.5
2	Carbon Monovide (CC)	Enigm	IS: 5182 (Part 10) (O)	2 1018.	0.61
3	Nitrogen (Novide (NO2)	micro gmim3	(S: 5182 (Part 6)_(O)	89 24 HR.	23.0
4	Ozona (OS)	micro gmins	1S 5182 (Part 9)	180 1 HR	BDL <20.0
5	Particulate Matter (<10um)	micro genim3	IS: 5182 (Part 23)_(O)	100.24 HR.	231
n'	Periousate Matter (<2.5um)	imiero gra/m3	IS 5182 (PT-24), 2019_(O)	60 24 HR.	113
7	Sulphur Dicade (SO2)	Emirty aram.	1S: 6182 (Part 2) (O)	80 24 HR.	8.5

-- END ---

Report Verified By

Heart Office:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 45, Udayan Industrial Estate, 3. Pepledangs Road, Kolkata 700015 West Bengal

Name & Address of Customer:

AVPo - Juda, Dist.) Keonjoar, Odishs - 758034 India

Tata Steel Ltd.(MGM) Joda West

Tel: +91 7044036120

Email udayanlao@mirask.com





Scan for Portal

M8KPL/ED/2023-24/\$13380

19/02/2024 - 27/02/2024

Permanent Facility

ULR: TC-895024000003086F

DOG NO. MISKAGE NATION?

TESTING & MERFECTION

TEST REPORT

Report No. :

Date :

Sample No. :

Discipline:

MISKNB/ED/2023-24/02/ZV2ECJ

27/02/2024

19/02/2024

Date(s) of performance:

Location of performance of

Reference No. & Date :

Date of receipt of sample:

3000156017/055, Date - 16/09/2023

Chemical

We hereby contify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of nample	Ambient Air
3. Unique Identification of sample(if any).	NA .
Date of sampling	16/02/2024
5. Place of sampling	Near Gangeigudit Pil
6. Environmental conditions during sampling & Transport	Temperature :18-27 dog C 2) Barometric Pressure: 714 mm of trig 3) Rain fall. No & Cold Chain Maintained.
7, Sampling Plan & Method used	JS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Pratik Mantri Akash Kr. Setti
9. Field Equipments Used	MSK/BBL/FIELD/RDS-4

Report No.: MSKPL/ED/2023-24/S13380

Sample No.: MSKNB/ED/2023-24/02/ZV2EQ

RESULT

hemical					1
S) No.	Parameter	MOU	Method	Limit	Result
OT THY		eg/m3	USEPA-10/3.4, June	6 (Annual)	BDL(DL:1.0)
4	Arsenic se (As)	micro gm/m3	(S 5182 (Part 11)	5 (Annual)	BOL(01:4-2)
2	Beryere	ngim3	(S 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)
-3	Benzo(a)/Pyrene		USEPA-IO 3.4, June	T (24 Hours)	0.02
4	Lead (as Pb)	mioro grum3		Not Specified	0.17
5	Manganese as Min	micro gm/m3	USEPA-10 3.4; June		BOLIDL:5.0)
-8	fuckel as Ni	Cm/gn	USEPA-IO 3 4, June	20 (Annuali)	DESCRIPTION OF

Uniolog !

Limit as per CPCB notification, New Dehr, 15th November 2009, for Ambient or quality

Statement of Conformity

END

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Designation

Execution Cherry

Automod Stations:

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States Centra (No. Filor), 748. A.C. Supe Rical, Schools - 700016, Vene Durgal, 8/04. Tel., 91. 20. 47/14/2020 / 22460007 Feb., 91. 20. 22460000 Head Office: Erest / Wn Erstvall.com Wildow - www.availles.com



Address of Branch:

P.O. Barbil Co Keonjhar Orese 758 095



Name & Address of Customer:

Tata Steel Ltd (MGM) Unde West

At/Po. - Joda, Dist. - Keonjher, Odisha - 759004. India Pin

TEST REPORT

Report No.:

Sample No. :

Date :

26/12/2004

MSRGL/ED/2023-24/02/00/58

MSKGL/ED/2023-24/004944

3000156017/056, Date - 15/08/2023

il the following sumple Drawn by us has been proxysted with the following results:

We likeway comey you mit convening sortion about by	AIR
1. Group	Ambient Air
2. Description of sumple	Joda West imn & Mrt Mines
3. Unique identification of sample(if any)	18/02/2024
4. Date of sampling	Naar Gergemula Pt.
5. Place of estripting	Clear & Surrey
6. Environmental conditions during sampling & Transport	NA NA
7. Sampling Plan & Method used	TON

Reference No. & Date :

Report No.: MSKGL/ED/2023-24/084944

Sample No.: MSXCL/ED/2023-24/02/05758

RESULT

nalysis F	Result of Ambient Air			-	W. 14.
SI No.	Parameter	WOW	Method	Limit	Rosult
ar no.		mioro-gm/m3:	IS 5182 (Part 25)	400. 24 HR.	14.8
1	Atminoria (NH3)	ma/mil	15: 5182 (Part 10) (O)	2 BHR.	0.51
2	Corpor Menanda (CO)	micro upolmi3	(6: 5182 (Part 6) (O)	80 24 HR.	20,4
3	Nitrogen Dioxide (NOZ)	micro grains	IS 0182 (Part 9)	180 1 HFL	BOL(DL-20.0
ă	Oxone (O3)	inion grivin3	(S: 5182 (Part 25) (O)	100 24 HFL	163
5	Particulate Malter (<10um)	-	18 5182 (PT-24),2919 (C)	60.24 HR.	.77
E	Particulate Metter (<2,5cm) Bulghur Dicxide (SO2)	micro gmim3	15: 5187 (Part 2) (O)	90 24 HR.	7.1

END-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Birech Carter (Mr. Rose), 749, K. J. C. Bines Roset, Arthody, 7806 N. West Swept, India Tel., 97 30 WH 1000 F 2050000 False, 91 23 20500005 Dreaf, Indiagnational cost Website Investment com Head Office:

Address of Laboratory :

Building No. P- 48, Udayen Industrial Estate. 3, Pagladanga Road, Kolusta 700015 West Bengal

Tel.: +91 7044036120

Email: udayanlab@mirask.com





Scan for Portal

ULR: TC-895024000003085F

DOG NO. MENDERN WY

TESTING + INSPECTION

Name & Address of Customer :

Tate Sheef Ltd:(MGM)_Joda West

AVPo. - Jodd Dist. Keerthar Odelin - 756034 Initia

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Data(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/213381

27/02/2024

MSKNB/ED/2023-24/02/ZT2EBT

19/02/2024

19/02/2024 - 27/02/2024

Parmanent Facility

3000156017/056 Date - 15/09/2023

Chemical

We hereby partity that the following sample Dissiri by us has been arrelyzed with the following results:

Ambient Air
NA .
16/02/2024
Near Ratiway Siding,
1) Temperature :18-27 deg C 2) Barometric Pressure: 714 mm of Fig 3) Rain fall
No & Cold Cham Maintained
(S:6182(P-11,12) & USEPA
Pretik Mentri Akash Kr. Setti
MSK/6BLIFIELD/RDS-3

MSKPL/ED/2023-24/213381 Report No. 1

Sample No.: MSKNB/ED/2023-24/02/ZTZEBT

RESULT

hemical			1	1070	British .
SINo.	Paramiter	MON	Method	Limit	Result
arno.		Em/on	USEPA-IO 3.4, June	6 (Annual)	BDL(DL:1.0)
1	Anwerto as (As)	micro-gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DLA2)
2	Benzena		IS 5182 (Part 12)	1 (Annual)	BDL(DC:0,5)
3	Bertzo(n)Pytene	ng/m3		1 (24 Hours)	BDL(DL:0.01)
4	Lead (as Ptb.)	micro gmm3	USEPA40 3.4, June		0.22
5	Minoganese its Mn	micro gm/m3	USEPA-IO 3.4: June	Not Spacified	
8	Nickel as Ni.	ng/m3	USEPA ID 3.4, Juna	20 (Annial)	BDL(DL:5.0)

Opinion:

Limit as per CPCB notification, New Defit: 13th November 2006, for Amelians or quarty

Statement of Conformity

END

Barriery By

Spill

Desgrater

Distably Chinal

Authorised Signature

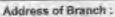
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Street Centre (Str Feor), 749, A.J.C. Bose Head, Roberts - 700016, West Bergel, Head Tel. 16 12 4(1)45(8)(7)72950007 Fax: 91 23 23000009 Street Info@merick.com Websits - eve misses com Head Office:



P.O. Barbil Dt Keonihar Oressa 756 035

Name & Address of Customer .

A3Po. Joda, Dist. - Knoreker, Odisha - 758034 Tretie Pin

Tata Steel Ltd.(MGM) Jode West





Scan for Portal

TEST REPORT

Report No.;

Date:

MSKCL/ED/2023-24/II04949

28/02/2024

Sample No. :

MSKGL/ED/2023-24/02/07/57

Reference No. & Date :

2000156017/056; Date - 15/00/2023

We person carries that the following sample Comm by us has been arranged with the following results:

1. Greap	AIR
2. Description of sample	Ambient Nr
3. Unique Identification of sample(if any)	Jude West from & Mn Mines Environment Clear & Surmy
4. Date of sampling	16/02/2024
5. Place of sampling	New Railway Siding
6. [Invironmental conditions during sampling & Transport	Clear & Sunny
7. Sampling Plan & Method used	MA

Report No: - MSKGL EDI2023-24/004949

Sample No.: MSKGL/ED/2023-24/02/00757

RESULT

Auglysis Result of Ambient Air						
St No.	Paramoter	(JOM	Method	Limit	Result	
1	Ammonii (NH3)	micro gm/m3	ts 5182 (Pan 25)	400 24 HR	15.5	
2	Carbon Monovide (CO)	mg/m3	IS: 5182 (Part 10), (O)	2 8HR.	0.80	
3	Nitroden Dioxide (NO2)	micro gn/m3	(S: 5182 (Part 6]_(O)	80 24 HR.	22.1	
4	Ozone (O3)	micro gmtm3	(S 5182 (Part 9)	180 1.HR	BOUDL 20:ff	
5	Particulate Matter (<10um)	micro-gm/m3	IS: 5182 (Part 23) (O)	100 24 HFL	236	
0	Particulate Matter (<2.5am)	micro gm/m3	IS 5182 (PT-24),2019_(O)	60.24 HPL	114	
7	Sulphur Disside (SOZ)	micro gm/m3.	15: 5182 (Part 2) (O)	50 24 JHS.	8.2	

--- END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 45. Udayan Industrial Estate 3, Pagladanga Rood, Kollinia 700015. West Bengal

Tel.: +91 7044038120

Email: udayımlab@mbask.com





Scan for Portal

ULR: TC-695024000003519F

Due No. MENVEENMENT

TESTING & HEPLETICH

TEST REPORT Name & Address of Customer:

Tala Steel Ltd.(MGM) Jode West

AVPc - Joda Dist. Keoniner Odellie 158034 India

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/115BBC

08/03/2024

MSKNB/ED/2023-24/02/59405E

26/02/2024

26/02/2024 - 05/03/2024

Permanent Facility

9000 (56017/056, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

† Group	Almaspheric Pollution	
2. Description of sample	Ambient Air	
3. Unique (dentification of sample(if any)	NA NA	
4. Date of sampling	22/02/2024	
5. Place of campling	Near Time Office-JWIMM	
6. Environmental conditions during sampling & Transport	1) Temperature :15-27 deg C 2) Barometric Pressurs: 707 mm of Hg 3) Rain No 5 Cold Cham Maintained	
7. Sampling Plan & Method used	IS-5182(P-11,12) & USEPA	
I. Identification of the personnel performing sampling by MSK	Prasik Kumer Maniri	
9. Field Equipments Lieed	MSK/BBL/FIELD/RDS-2	

Report No.: MSKPL/ED/2023-24/113BBC

Sample No.: MSKNB/ED/2023-24/02/50405E

RESULT

Chemical					-
El No.	Parametri	мои	Method	Limit	Result
4	Arsenic sa (As)	no/m2	USEPA-IO 3.4, June	B (Annusi)	BDL(DL:1.8
4	Benzene	micro gm/m3	≤ 5182 (Part 11)	b (Annual)	BOL(DLA 7
1	Benzo(a)Pyrerie	Eirfun	15 5182 (Part 12)	1 (Annual)	BDL(DL-0.5)
4	Lead (tis Pb.)	micro anim3	USEPA-IO 3.4, June	1 (24 Hours)	0.03
5	Mancanase as Mil	Emirro graim	USEPA-IO 3 4 June	Not Specified	0.33
ñ	Nickel as NI	ng/m3	USEPA-IO 3.4, June	20 (Annual)	6,3

Opinion (

Limit as per CPCB nothingon. New Delhi, 18th November 2008, for Amiliant air quality

Statement of Conformity NA

END

Reviewed By:

Signature

a) Bane

Designation.

Technol (vollege

Authorized Signature

(a) Banu

Dr. Devisters Barneye

Designation Terrence in charge

The results mide only to the apply between
This Test Report shall not be reproduced except in this, without the permission of Mars 3.8. Private Liquid Liquid Four this test the report shall except the respective description from the reproduced except in this, without the permission of the results of exercises in the respect of the results of the res

Head Office:

Streets Contro (Sh Floor), 748, A.J.C. Buse Rose, Kolkets - 100016; West Bergid, India. Tol. 91 33 4014000 / 2890007 Fax: 91 32 2000000 Ergid. Introffundrian (20) Webside : www.rstlabl. (Whi



Address of Branch:

P.O. Beroil Ot Kaposhas Orisse 758 035



Scan for Portal

TEST REPORT

Reference No. & Date:

Name & Address of Customer: Report No. :

Tata Steel Ltd.(MGM)_Joda West D:

AliPo. - Joda, Des. - Keorghar, Odisha - 758034 India Pin

Date:

Sample No.:

MSKGL/ED/2023-24/00498/I

29/82/2024

MSKGL/ED/2023-24/02/01006

3000160017, Date - 26/09/2023

We county comity that the following seminle Drawn by us has been analyzed with the following results.

f. Group	AR	
2. Description of sample	Aarbierit Air	
Unique Identification of sample(If any)	Jodaf West fron & Mr Minio	
4. Date of sempling	22/02/2024	
5. Place of sampling	Near Time Office-JWIMM	
Environmental conditions during sampling & Tramport	Clear & Sunny	
7. Sampling Plan & Mathod used	NA.	

Report No.: MSKGL/ED/2823-24/004986

Sample No. 1 MSKGL/ED/2003-24/00/01026

RESULT

Analysis Result of Ambient Air						
SI No.	Parameter	HOM	Mathod	Limit	Result	
1	Ammonia (1413)	micro gmim3	IS 5182 (Part 25)	400 24 HR	16.3	
2	Carbon Montrode (CO)	malm3	19: 5182 (Pwri 10)_(CI)	2 BHB.	0.58	
9	Nitropen Dioxide (NOZ)	iniera gm/m3.	IS: 8182 (Part 6) (0)	80 24 HFL	18,1	
4	Dzone (CB)	micro grova2	(S 5182 (Part 9)	180 1 HFC	BDL(DL:20.0)	
	Particulate Matter (<)0um)	micro gov/m3	(S: 5182 (Part 23)_(O)	100 24 HR	235	
2	Particular Matter (<2.5cm)	mioro gm/m3	IS 6162 (PT-24),2019 (CI)	60 24 HR.	112	
4	Sulprur Disside (SO2)	Emirro gratim	(S: 518/2 (Part 2) (O)	80 28 BR.	8.8	

END -

Report Verified By

For Mitra S, K, Private Limited

Authorised Signatory

The art Courte (Min Place), TAB, AUC, Myst-Rose: URders - 700016, Inc. Line and Model.
Tel., United the Auditoria Commission Minimals and Auditoria.

Address of Laboratory :

Building No. F- 48, Udayan Industrial Estate. 3. Pagiadanga Road, Kokata 700015 West Bengal

Name & Address of Customer :

Al/Po - Joda, Ost: - Keenjaar, Odeha - 758034 India

Tate Steel Ltd (MGW) Joda West

Tel.: +91 7044036120 Email: udayanlab@mirask.com







Scan for Portal

ULR: TC-895024000003520F

Dog No.: MSKOSBA/III/07

TESTING # INSPECTION

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/V/13BO6

06/03/2024

MSKNB/ED/2023-2/I/02/5C407L

26/02/2024

26/02/2024 - 06/03/2024

Permanent Pacity

3000156017/056, Data - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1, Group	Almospheric Pollution	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(if any)	NA:	
4. Date of sampling	22/02/2024	
5. Place of sampling	Near H-Quarry Rest Sheltor-JWIMM	
6. Environmental conditions during sampling & Transport	Temperature :15-27 deg C 2) Barometric Pressure: 707 mm of Hg 3) Rain tall No & Cold Chain Maintained	
7. Sampling Pier & Method used	IS:6182(P-11.12) & USEPA	
S. Identification of the personnel performing sampling by MSK	Pretik Kumar Maniri	
9. Fleid Equipments Used	MSKUBBLIFIELD/RDS-1	

Report No.: MSKPL/ED/2023-24/W13BC6

Sample No.: MSKNB/ED/2023-24/02/5C407L

RESULT

Chemical						
SI No.	Parameter	HOM	Mathod	Limit	Fleshit	
1	Arsenio as (As)	ing/in/S	USEPA-IO 3:4, June	5 (Annual)	BOL(DL*1.0)	
2	Banzane	micro gm/m2	(S 5182 (Part 11)	5 (Annual)	BOL(DL(4.2)	
3	Berzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)	
4	Lead (as Pb.)	micro gm/m3	USEPA-IC-3.4, June	f (24 Hours)	BIDL(DL:0.01)	
6	Mangagesé de Min	miore gro/m3	USEPA-ID 3.4 June	Not Specified	0.10	
6	Nickel as Mi	ng/m3	USEPA-IO 3.4. June	20 (Annual)	BDL(DL:5.0)	

Opinion :

Limit as per CPCB nomication, New Della, 18th November 2009, for Ambient all quality

Statement of Conformily

END

Revisional Bal

Springs Norte

Designation

a Bane Nr. Dovostan Basari Transmissi in charge

Dr. Ovedlark Bark

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The results relate only to be front (a) tracked.

This Report shall not be represented except in A.S., waters the permanent of Mahr 8.K. Provide present

The reported part of supplying the character straight (Non-particular complete) Front. Western shall be obtained for 15 days from the ON of the character straight (Non-particular complete) Front. Western shall be obtained for 15 days from the ON of the character straight (Non-particular complete) Front. Western shall be obtained for 15 days from the ON of the Character straight (Non-particular complete) Front.

The instanced goal of complete) for precipital greatypes (Seet, Mode & Louise Medical shall be repaired for the per CPCR gassadres 5, [6] (1 supple from the date of louise of the Test Report. The represented post or administration of decorated post or administration of the control of the Test Report.

Head Office:

Swaps Course (50 Floor), 748, A.J.E. Bose Roses, Kuhalan 700016, White Barrani, Incis. Tel., 91 33 401400001 20600007 Fox 191 33 73600000



Address of Branch:

P.D. Baroli Dt Keonjhar Orleau 756 035



Scan for Portal

TEST REPORT

Name & Address of Customer:

Tate Steer Ltd.(M/SM) Jones West

AtPo. Jode, Diet. - Ksonpur, Odetur - 758034 Inde Pin

Report No. 7

MSKGL/ED/2023-24/004/88

Date :

Sample No. : Reference No. & Date : 29/02/2024 MSKGL/ED/2023-24/02/01027

3000156017 Date - 28/09/2023

elle Timen he us has point analyzed with the following results:

1. Group	AIR
2. Description of sample	Aminot Ai
Unique identification of sample(if any)	Joda West from & Min Mines
4. Date of sampling	22/00/2024
5. Place of sampling	Real H Querry Real Sheltor-JWIMM
6. Environmental conditions during sampling & Transport	Clear & Strony
7. Sampling Plas & Method used	NA NA

Report No.: MSK8L/E0/2023/24/094868

Sample No.: MSKGLIED/2023-24/02/01027

RESULT

-	Result of Ambient Air	T men	Method	Limit	Result
SINO	Parameter	MOM	West Links of the Control of the Con		1.44
4	Animonia (NH3)	micro gm/m3	iS 5182 (Part 25)	400. 24 HR:	12.3
4	Carbon Monsoide (CO)	implinis-	(S: 5182 (Part 10)_(O)	2 SHFL	0.55
2	Nitrodan Dioxide (NO2)	micro grivini3	IS: 5182 (Part 6) (D)	80 24 HR.	23.1
4	Ozme (O3)	micro gmins)	BS 5/182 (Part 9)	180 1 HR.	BDL(DL:20.0
-	Posticidate Matter (<10um)	micro gm/m2	IS: 5182 (Part 23)_(O)	100 24 HR.	203
D		micro gmm5	IS 6182 (PT-24),2019 (CI)	60 24 HR	99
6	Participate Metter (<2 Sum) Subject Decode (SO2)	micro grama	45: 0482 (Part 2); (O)	80 24 HR	II)8>

END -

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Head Office:

PhartiCorns (56 Part) (145, A.L. Essa Poss), Kylisse (500) G. Was Decyd into The 4t 32 40 (45)20 (270) 000 (Fax. Sr /5 20)00000 Faxer subgramme con Welster Service (15)

Address of Laboratory :

Building No. P. 48, Udayan Industrial Estate. 3. Pegladanga Roed, Kolkata 700016 West Bengsi

Name & Address of Customer:

At/Pc. - Jods, Dist. - Kamihar, Odisha - 758034 India

Tara Steel Ltd (MGM)_Joda West

Tel.: +91 7044038120

Email udeyantab@mirrask.com



TC-8950



Scen for Portal

ULR: TC-695024000003521F

DISCHOOL MEKICEWHIND

TESTING * WSPECTION

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/0138C0

06/03/2024

MSKNB/ED/2023-24/02/8Z4084

26/02/2024

26/02/2024 - 06/03/2024

Permanent Facility

3000156017/055, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by as has been enalyzed with the following results.

Atmospheric Folkulari
Ambient Air
MA
22/02/2024
Near O-Quarry Shorting Yard-JWMM
1) Temperature: 15-27 deg C 2) Barometric Pressure: 707 mm of rig 3) (sain tac
No & Cold Chain Maintained
15:9182(P-11,12) & USEPA
Pratik Kumar Manthi
MSK/BBL/FIELD/RDS-6

Report No.: MSKPL/ED/2023-24/Q13BQ0

Sample No.: MSKNE/EIJ/2023-24/02/8Z4064

RESULT

Chemical						
SI No.	Parameter	DOM	Metrod	Limit	Remailt	
OI HY		Em/gn	USEPA-IO 3.4 June	6 (Annual)	BOL(DL:1/0)	
1	Arsenic ae (As)	mwere omma	(S 5182 (Part 11)	5 (Annual)	BDL(DL:4:2)	
2	Dergane	_	IS 5162 (Part 12)	1 (Annual)	BDL(DL:0.5)	
3	Banzo(a)Pyrene	ng/m3	USEPA-ID 3.4, June	1 (24 Hours)	BOL(DL'00)	
4	Lead (as Pt)	micro gm/m3		Not Specified	90.0	
5	Manganess as Mn	micro gm/m3	LISEPA-ID 3.4: JUNE		BDL(DL:5.0)	
9	Nickel as 16	rig/m3	USEPA-IO 3.4, June	20 (Annual)	BOLIDEAN	

Opinion:

Limit as per CPCB natification, New Delhi, Tern November 2009, for Ambient air quality

Statement of Conformity

END

Daniel office.

maple Dr. Devottore Street

WHAT IS THE WORK

HARRISON SAFERES

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Danes So Dr. Dayottim Bring

Townson in charge

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Head Office: Snexts Centre (for Flore) 749, A.J.C. Bose Roset School 7000Hs, Veen Bergel 1954 Tel., 95 39 4014/0000 (255/0007 Fee: 37 37 2255/0009 Treats 195-Streets at Centre (Whitelet Invest 195/005 come.

Page I uf1



P.O. Bertal DI Avsoninar Onssa 758 (035)





Sean for Portal

TEST REPORT

Reference No. & Date :

Sample No.:

Name & Address of Customer : Report No. :

MSKGL/EDI2023-24/004980

Tata Steel Ltd.(MGM)_Jodo West

Date : 28/02/2024

Al/Po. - Joda, Dist. - Keonjiter, Odesha - 758034 India Pin

MSKGL/ED/2023-24/02/61026 3000156017, Date - 28/09/2023

We hereby certify that the following samula Drawn by us has been analyzed with the following result:

1. Group	AIR
2. Description of sample	Ambient Air
2. Unique Identification of sample(if any)	Joda West iron & Mn Mines
4. Data of sampling	22/52/5924
5. Place of sampling	Near D-Guarry Shorting Yant-JMMM
6. Environmental conditions during sampling & Transport.	Clear & Shirry
7. Sampling Plim & Method used	NA .

Report No.: MSKGL/ED/2023-24/004950

Sample No.: MSKGUED/2023/24/02/01/02/5

RESULT

analysis Result of Ambient Air					
Si No.	Parameter	UOM	Method	Limit	Result
1	Americals (NH3)	micro gm/m3	IS:5182 (Pert 25):	400 24 HR.	BDL (DL 10.0)
2	Cerbon Manacide (CO)	Emigm	IS: 5182 (Part 10)_(O)	2 BHR.	0.47
.3	Nitrogers Dioxidis (NO2)	micro gm/m3	18: 5182 (Part 6)_(O)	80.24 HR.	22.6
4	Ozone (O3)	micro gmint3	48 5182 (Part 9)	380 1 HR.	BDL(DL:20.0)
5	Particulate Matter (<10um)	micro gmmci	(9: 5182 (Part 23)_(C)	100 24 HR.	200
-6	Particulate Matter (<2,5um)	micro gm/m3	18 5182 (PT-24),2016 (O)	80 24 HR.	96
7	Sulptur Dinxide (SO2)	тикого динина	15: \$182 (Part 2)_(D)	80 24 HR.	8,4

-END-

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan industrial Estate, 2, Pagradenga Road, Kolketa 700015 West Bengal

Name & Address of Customer:

At/Po. - Jode, Dist - Kepnjim, Odaha - 758034 India

Tel: +91 7044036120

Email: udayanlab@mirask.com

Tata Steel Ltd (MGM) Joda Wasi





Scan for Portal

ULR: TC-695024000003522F

DOCAN, MSWGEWING

FAATING + NEPECTION

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/613BC4

08/03/2024

MSKNB/ED/2023-24/02/9G404L

26/02/2024

36/02/2024 - 06/05/2024

Permanent Facility

3000156017/065, Data - 16/09/2023

Chemical

We heraby cartify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Aintrient Air
3. Unique identification of sample(if my)	NA
4. Date of nampling	22/07/2024
5. Place of sampling	Near D-Ouarry Screen Plant-JWIMM
6. Environmental conditions during sampling & Transport	Temperature :15-27 deg C 2) Baromemic Pressure: 707 mm of Fig 3) Fain tall No. & Cold Chain Mainteined
7. Sampling Plan & Method used	(B:6182(P-11,12) & USEPA
8. Identification of the personnal performing sampling by MSK	Pretik Kumer Mantri
9. Field Equipments Used	MSK/BBL/FIELD/RDS-8

Report No.: MSKPL/ED/2023-24/613BC4 Sample No.: MSKNB/ED/2023-24/02/9G404L

RESULT

2hemical					
Si No.	Parameter	MOU	Method	Limb	Result
an reci	Amenic 86 (As)	ng/m3	USEPAJO 3.4; June	5 (Annual)	BDL(DL:1.0)
1	Eenzene	micro gm/m3	(S 5182 (Part 11)	5 (Annual)	50L(DL4.2)
1	Benzo(a)Pyrene	ng/ra3	15 5182 (Part 12)	1. (Anyuel)	BDL(DL-0.5)
3	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL:0.01)
4		micro pm/m3	USEPA-IO 3.4: June	Not Specified	0.26
5	Manganese as Mn Nickel as Ni	na/m3	DSEPA/ID 3.4, June	20 (Annual)	BOL(DL 5.0)

Opinion

Limit as per CPCB notification, New Dear, 18th November 2009, for Ambient as quality

Statement of Conformity

END

Blackwood By

Signature

a Banyee Dr. Davidstam Carrett

Technical Incharge

Authorism Signatory

Signific

Or. Ownshire Box

Designation

Even with in Charge

The reserved control of semples of the surround of the performance of Miles S. K. Physics Lineaus.

(i.e. Test Report what not be reproduced except in full, without the performance of Miles S. K. Physics Lineaus.

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Head Office:

Street's Carlos (St) Floor), T4B, A.J.C. Hum Roset, Kokasa - 700018, West Brook, India Tel. St 23 401-40000 / 22490007 Feb. 91.33 22664099 Street - Hostfriedratic 2210 Visinglis - www.rsd-side. (UM)



Address of Branch:

P.O. Barbil Di Kecriptar Orassa 758 935

Name & Address of Customer

Firth Steel Ltd.tMGM1_Joss West



TEST REPORT

Report No. 1

MISKGL/ED/2023-24/00/49/00

Date:

29/02/2024

Sample No.: ANPo, - Josta, Dist. - Knorijiur, Odistra - 758034 India Pin

MSKGL/ED/2023-24/02/01/029

Reference No. & Date .

3000156017, Date - 28/09/2023

We haveby cartify that the following sample Dewin by as trac been unalyzed with the following results:

We remain that the format of the format of	AIR
Group Description of sample	Applicat Air
	Jade West fron & Min Mines.
Unique identification of sample(if any)	22/02/2024
4. Bate of sampling	Near D-Quarry Screen Plant-JWIMM
5. Place of sampling 8. Environmental conditions during sampling & Transport.	Close & Sunny
Superflow Plan & Melitod used	NA

Report No.: MSKGLIED/2023-24/004590

Sample No.: MSKGL/ED/2023-24/02/01028

RESULT

Analysis Result of Ambient Air					
SI No.	Paranular	NOM	Militari	Limit	Reseal!
di NO.	Amosonia (NH3)	micro-protes3	IS 5182 (Part 25)	400 24 HR.	14.0
7	Curacy Monocode (CO)	mplm3	IS, 5182 (Part 10), (O)	2 8HFL	0.44
2	Ntrogen Dioxed (NO2)	micro om/m3	(S) 5182 (Part 6) (O)	HO 24 HFL	21.4
3	Dzone (CI3)	micro-gm/m3	(S 5182 (Part 9)	180 1 HR.	BOT (bf 50'0
-	Particulate Matter (<10mm)	micro gm/m3	48/ 5162 (Pun 23) (D)	100 24 HR.	205
2	Particulate Monter (<2.5um)	micro gmim3	IS 6182 (PT-24),2019 (C)	60 24 HR.	-00
0	Sulphur Dioxide (S09)	micro om/m3	15: 5 (82 (Part 2) (D)	160 24 HR	8.0

END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayah Industrial Estate, 3, Pagladango Reed, Kolkata 700015 West Bengal Tel.: +91 7044036120 Email. udayanlab@mitrask.com







ULR: TC-995024000003523F

DHI NO. MSKOCKNIDED

TESTING . INSPECTION

Name & Address of Customer:

Tets Steel Ltd.(MGM)_Joda West

AliPu. - Joda, Diet. - Keonihar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/G13BCA

06/03/2024

M5KNB/ED/2023-24/02/FT4027

26/02/2024

26/02/2024 - 08/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby cartify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Aimospheric Pollutina
2. Description of eample	Ambient Air
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	22/02/2024
5. Place of sampling	Near Cangeiguda P4-IMMM 1) Temporature :15-27 deg C 2) Barometric Pressura: 707 mm of Hg 3) Ratin full
6. Environmental conditions during sampling & Transport	No & Cold Chain Meinteined
Y. Sempling Plan & Method used	IS:5182(P-11,1Z) & USEPA
B. identification of the personnel performing eampling by MSK	Pratik Kumar Mentri
9. Field Equipments Used	MSKRISLIFIELD/RDS-4

Report No.: MSKPL/ED0023-24/G10BCA

Sample No.: MSKNB/ED/2023-24/02/FF4027

RESULT

Chemical						
SINII	Paramitter	MOU	Method	Limit	Result	
4	Atsenic as (As)	- Emign	LISEPA-IO 3.4, June	6 (Annual)	80L(DL:1.0)	
9	Souzene	milita gm/m3	IS 5182 (Part 11)	9 (Annual)	6DL(DL-4.2)	
	Benzo(a)Pyrene	ng/m3	IS 6182 (Part 12)	1 (Armual)	BDL(DL:0.5)	
	Lead (as Pb.)	micro gm/m3	LISEPA-IO 3.4, June	7 (24 Hours)	0.02	
	Manganese as Mil	micro gm/m3	UBEPA-IO 3.4; June	Not Specified	0,13	
	Nickel as Ni	ng/mā	USEPA-IO 3.4, June	20 (Annual)	BOL(DL:5.0)	

Opinion:

Limit as per CPCB notification, New Doors, 18th Neventure 2009, for Ambient at quality

Statement of Conformity

END.

Terresci fie

Service

a Bane Dr. Davistan Barns

DIRECTION.

Head Office:

Teamwork in charge

Signaturé

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Designation

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Structs Contra City Floors, 148, A.J.C. Bose Road, Robata - 78,6116. West Resign. West Tel. 191 33 40145000 (2016)000 Tel. 191.33 2256(000)

Email Whitemark Cost Water Road Water Costs (Contract)



Address of Branch :

P.O. Barbil Dr. Keonther Orisin 758 035



TEST REPORT

Name & Address of Customer:

Tata Steel U.d. (MGM) Jode West

A(IPo: - Joda, Dist. - Kwejnar, Odisha - 758034 India Pin

Report No. :

MSRGL/ED/2023-24/004982

28/02/2024 Date:

MSKGI /ED/2023-24/02/01030 Sample No. :

3000156017, Date 28/04/2023 Reference No. & Date :

We hereby cartify that the following sample Drown by us has been analyzed with the following results

1. Group	AIR
2. Description of sample	Ambient Air
Unique identification of sample(if any)	Jode West Iron & Mr Mines
4 Oate of sampling	22002/2024
5. Place of sampling	Near Gangeigota Pif-JWtMM
8. Environmental conditions during sampling & Transport	Clear & Sunty
7 Camplion Plan & Mothod used	

Report No.: MSKSL/ED/2023-24/004962

Sample No.: MSKGL/ED/2023-24/60/01030

RESULT

nalysis f	Result of Ambient Air			1	1 4000
SI No.	Parpmeter:	UOM	Method	Limit	Result
4	Ammonia (NHS)	micro gminsi	IS 5182 (Part 25)	400 24 HR	BDL (DL 10.0)
	Carbon Managade (CO)	Emplim3	ts: 918/2 (Part 10) (C)	2 8HR.	0.41
-	Narogen Dioxide (NDZ)	rviero gm/mii	(S: 5182 (Part 6) (C)	80 24 HR	25,1
0	Ozone (O3)	micro groins	(6 5182 (Part 9)	180 1 HR.	BDL(DL:20.0)
4	Pariculate Matter (<1000)	micro galivist	IS: 5182 (Parl 23) (O)	100 24 HR	218
n	Performate Matter (<2.5um)	miore greens	IS 0182 (PT-24),2019. (O)	60 24 HR.	102
6	Solehur Dinnida (SO2)	micm pmim3	IS: 5182 (Part 2) (O)	80 24 HR.	3.5

END -

Report Verified By

For Mitra 5, K. Private Limited

Address of Laboratory :

Building No. F- 4B, (Idayan Industrial Estate. 3, Pagladanga Road, Kokata 700015 West Sengal

Tul.: +91 7044036120

Email: udayanlab@mitrask.com

Tata Steel Ltd.(MGM)_Inda West

AliPo - Jada, Dist. - Aegrijaar, Odistra - 758034 India





Soan for Portal

ULR: TC-695024000003524F

Dog No MSK/CEMHW/IT

TESTING . THEREDING!

TEST REPORT Name & Address of Customer:

Report No. 7

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/Z13BCC

06/03/2024

MSKN8/ED/2023-24/02/MK4038

26/02/2024

26/02/2024 - U6/03/2024

Permanant Facility

3000156017/056, Dave - 16/09/2023

Chemical

We hereby certify that the following swimple Drawn by us has been analyzed with the following results:

is hereby carrily that the falcowing maricle brown by its rise back a ray.	Atmospheric Pollution
1. Group	Ambient At
2. Description of sample	NA .
), Unique Identification of sample(If any)	22/02/2024
I, Date of sampling	Company Depter
5. Place of earryling	Tamperature 15-27 deg C 2) Barometric Pressure: 707 mm of Hg 3) Rain fail
E. Environmental conditions during sampling & Transport	No & Cold Chain Maintained
7. Sampling Plan & Stetlind used	IS:5182(P-11,12) & USEPA
i. identification of the personnel performing sampling by MSK	Pratik Kurner Mantri
9. Field Equipments Used	MSK/BBU/FIELD/RDS-3

MSKPL/ED/2023-24/Z13BCC Report No. 1

Sample No.: M5KNB/ED/2023-24/02/MK4038

RESULT

Chemical				3.04	Processes.
SI No.	Parameter	MON	Melliod	Limit	Result
SI NO.		Em/esc	USEPA-IO 3.4, June	B (Annual)	BDL(DL:1.0)
1	Arsenic as (As)		IS 5182 (Part 11)	5 (Annua)	BOL(DE:4.2)
2	Benzene	micro gm/m3		1 (Annual)	BDL(DL:0.5)
3	Benzo(a)Pyrene	ng/m3	IS 6182 (Pert 12)		0.03
4	Lead (as Pb.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	
5	Mangacese sa Mn	Enriting oxotes	USEPA4D 3.4: June	foot Specified	0.37
. F	Nickel as W	ma/m3	USEPA40 3.4, June	20 (Annual)	BDL(DL:5.0)

Ciplinion |

Limit as per CPCB notification. New Dwin. 18th Nevember 2009, in: Ambient air quality

Statement of Conformity

END

oleanen Dr. Dansdoor Ber

Federal of the Life Con-

Authorized Signatory

Supplement.

Danual 4 Dr. Doyotham Burningo

Designation

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and require carry as the energy amount.
This Test Report shall not be recorded encopy in Aut, without the performance of Maris S.A. Frivate Lamber.
This Test Report shall not be recorded encopy in Aut, without the performance S.A. Frivate Lamber.
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The manner part of compaint for Merchiclogics analysis (Non-pershably persists) food, Seeled Water, Soiled Soid; after larger the Idland Soiled Soile

Thresda Centre (8th Flore), 74E, A.J.C. Boss Foots, Kollinda - 700016, West Bergel, West Feb. 91 33 43944000 (2210000) Fax. 91 33 4395003 Head Office: Front imbellight basis plan Machael : www.mit-46.com



Address of Branch:

P.O. Barbil D. Kongher Ofste 755 005



Scan for Partial

TEST REPORT

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West.

AliPe. - Joda, Dez - Keorihar, Odehe - 758034 India Pin

Report No. :

MSKGL/ED/2023-24/074963

28/02/2024 Date:

MSKGL/EDQ023-24/02/81031 Sample No.:

3000156017, Daw - 26/09/2023 Reference No. & Date :

We namely certify that the following sumple Drawn by us has been analyzed with the following results:

and remarks croppy men was surprising control of	AfR
1 Group	Arraignt für
2. Description of sample	Jody West trop & Mn Minks
Unique Identification of sample(if any)	22/02/2024
4. Date of sampling	Neer Railway Siding-JWMM
5. Place of sampling 6. Environmental conditions staring sampling & Transport	Clear & Surry
	NA.
7. Sampling Plan & Method used	

Report No.: MSKGLIED/2023/24/094983

Sample No.: MSKGL/ED/2023-24/02/01851

RESULT

Parameter		Milliod.	Limit	Result.
1 - 11000	MOU	(5.5182 (Part 25)	400 24 HR.	10.2
			2 868	9,58
Carbon Monardde (CC)	mg/m/3		The second secon	23.2
Nirogen Dissoce (NO2)	musip gm/m3	IS: 5182 (Part 6) (D)		
	morro amino	(S 5182 (Part 9)	180 1 HR.	BDL(DL:20.0
The state of the s		r\$: 5182 (Part 23)_(O)	100 24 FR.	195
		15 6182 (FT-24) 2019 (O)	60.24 HR.	93
Particulate Matter (<2.5um)			80 24 HB	T.2
	Animonia (NHS) Carbon Monardde (OO) Nitrogen Dioxica (NO2) Oponia (O3) Particulate Matter (<10um) Particulate Matter (<2,5um)	Carbon Moneráde (CO) ingfm3 Nerogen Dioxice (NO2) micro gm/m3 Ozoni (O3) micro gm/m3 Particilate Matter (<10um) inicro gm/m3	Carbon Monarde (CO) mg/m3 (5, 5482 (Pert 10) (O) Nirogen Dioxice (NO2) micro greens (S. 5182 (Pert 8) (O) Dione (O3) micro greens (S. 5182 (Pert 9) Particulate Matter (<10xm) micro greens (S. 5182 (Pert 23) (O) Particulate Matter (<2,5um) micro greens (S. 5182 (PT-24),2019 (O)	Carbon Monarde (CO) mg/m3 IS, 5182 (Pert 10) (O) 2, 8HFL

END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. F. 48. Udayan Industrial Estate, 3, Pagadange Road, Kolkala 700015 West Bengal Tel. +91 7044036120 Email: udayentab@milrast.com







ULR: TC-8950240000003525F

DOC NO MENGRAPHING

TESTING + MERECITOR

Name & Address of Customer:

Tala Steel Ltd.(MGM)_Joda West

AVPo. - Joda, Dist. - Keonijier, Odisha - 758034 Milili

TEST REPORT

Report No.:

Date:

Sample No. =

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/H13BD0

06/03/2024

MSKNB/ED/2023-24/02/854023

26/02/2024

26/02/2024 - 06/03/2024

Pormanent Facility

3000190017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results.

Almospheric Pollution
Ambient Air
NA NA
23/02/2024
a superior and a supe
1) Temperature :16-27 deg C 2) Barometric Pressure: 706 mm of Hg 3) Rain tell
No & Cold Chain Maintained
IS:5162(P-11,12) & USEPA
Lefin Kumar Naik
MSK/BBL/FIELD/ROS-2

MSIPUED/2023-24/H138D0 Report No. :

Sample No.: MSKN8/ED/2023-24/02/884023

RESULT

6 (Annual) 5 (Annual)	BOL(DL-1.0) BOL(DL-4.2)
	BOL(DL 4.2)
5 (Annual)	
- House	TO SULL VICE
1 (Annual)	BDL(DL:0.5)
	BDL(DL:0.01
	-
Not Specified	0,29
20 (Annual)	41.9
	1 (24 Hours) Not Specified

Opiniott:

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambiers air quelly

Statement of Conformity MA,

END

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Desgription

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Autorized Signatury

Designation

Dr. Doverham Berwije

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The Tean Report shall not be reported and services in full, well-out the permession of Many S.K. Provide and the 1th days from the date of team of the Tean Report. Reministrate surrogard, about the report days from the date of team of the Tean Report. Reministrate surrogard, about the remaining from the date of team of the Tean Report.
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Ehrach Centre (fith Floor) 746, A.J.C. Blaze Hold, Kottans -/0001/), Marif Bergit, India. 14123 40140001 (2016000) Fax: 91.33 70660000 20164, 19180 presses com Website: www.hitmas.com

Page I of

AIPo. - Jode, Dist. - Neorgue: Odistra - 758034 Insia Pin



Address of Branch:

P.O. Barbii Dt Kecnifter Orissa 758 835

Name & Address of Customer ;

Tata Steel Uit, (MGM) Joon West



TEST REPORT

Report No.:

MSKGL/ED/2023-24/004957

29/12/2024

Sample No. :

M8KGL/ED/2023-24/02/01032

Reference No. & Date :

3000156017, Date - 28/09/2023

We handly cardify that the following sample Drawn by us has been analyzed with the following results.

we navidly takeny that our losses as surely asserted and the	AIR
1. Group	Ambient Air
Description of sample Unique Identification of sample(If any)	Joda West Iron & Mit Mines:
	23/02/2024
4. Date of compling	trear Time Office-JWIMM
5. Place of sampling . 6. Environmental conditions during sampling & Transport	Clear & Suotty
7 Semuling Plan & Method used	NA

Report No. : MSKGL/ED/2023-24/004567

Sample No. 1 MSKGL/ED/2023-24/02/01032

RESULT

malysis f	Result of Ambient Air				-
SI No:	Parameter	HOM	Method	Limit	Result
or raw.	Anunoria (NH3)	micro aminis	15 5182 (Fart 25)	400 24 HR.	12.5
1	Carbon Monoxide (CO)	mg/m3	IS: \$182 (Pint 10) (O)	2 86元	0.55
2	Nitrogen Droxide (NO2)	Enslute action	IS: 9182 (Part 6) (O)	80 24 HFL	19.7
3	Cizone (O3)	micro gmima'	(S 5182 (Part 9)	180 1 HR.	BDL(DL:20.0
4		micro gmim3	15: 5182 (Part 23) (O)	100 24 HR.	-217
2	Participate Matter (<10um)	micro gm/m3	IS 5182 (PT-24) 2019 (O)	60 24 HR	106
0	Paracutate Matter (<2.5um) Sulphur Dioxide (SD2)	Em/mp orains	(5: 5182 (Part 2) (O)	10 24 HFL	6.0

___ F(0) ___

Report Verified By

For Mitra S. K. Private Limited

Bhoudham

Authorised Signatory

Street Come (St. Fact), 745, A.J.C. Non-Road National 700019, West Kings, Asia. Th. U. SS ay-LASSA, 22450077 Fax. 41 to 22450008.

Dental introduced care Western www.patrict.com

Page 1 of 1

Head Office:

Address of Laboratory :

Building No. P-48, Udeyan Industriel Estate, S. Pagladangs Road, Kolkata 700015 West Bengal

Name & Address of Customer:

AVPo. - Joda, Dist. Keoniher, Odisha - 758034 India

Tala Steel Ltd.(MGM)_Joda West

Tol.: +91 7044038120

Email: udayanlab@mitrask.com



TC-6950



Scan for Portal

ULR: TC-695024000003527F

Doc No.: MEXCERNATION

TEST IN GAINSPECTIO

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance; Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/J19BED

06/03/2024

MSKNB/ED/2023-24/02/G2/405E

26/02/2024

26/02/2024 - 05/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us nee been analyzed with the following results

Ve heleby centry that the following analysis serving	Almospheric Pollution
1. Group	Ambient Air
Description of sample	NA.
. Unique Identification of sample(if any)	23/02/2024
L Date of sampling	A Company Charles Very 2000AM
5. Place of sampling	1) Temperature: 16-27 dag C 2) Baromekir, Pressure: 706 inm of Hg 3) Rain fall
6. Environmental conditions during sampling & Transport	No & Cold Chain Meinteined
	IS:5182(P-11,12) & USEPA
7, Sampling Plan & Method used	Lain Kurrar Nak
8. Identification of the personnel performing sampling by MBK	MSK/RBL/FIELD/RQ5-8
9. Fleid Equipments Used	

Report No.: MSKPL/ED/2023-24/J13BED

Sample No.: MSKN8/ED/2023-24/02/G2/405E

RESULT

Chemical				10.00	Parault
SI No.	Paramoter	MOU	Method	Limit	
201 MO:	10000	ng/m2	USEPA-IO 3 4, June	6 (Annual)	BDL(DL:1.0)
1	Amenic as (As)		IS 5182 (Part 11)	5 (Annual)	EDL(DL/42)
2	Benzene	micro gre/m3		1 (Annual)	BDL(DC:0.5)
3	Senzo(s)Pyrene	ng/m3	IS 5182 (Part 17)		0:02
4	Load (88 Pb.)	raiero grivina	USEPA-IO 3.4, June	1 (24 Hours)	
		micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.33
5	Manganese as Mn	ng/n3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)
TE I	hicket as Ni	ngana	Trade Lance and Lance		

Limit as per CPCB systication. New Delin. 18th November 2009, for Ambient air quality

MA-Statement of Conformity

END

Distance For

Theorical In Charge Denobility

Automot Squary:

Dann Decision

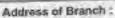
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Head Office:

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Page I of 1



P.O. Barbii Di Knonimer Drissa 758 035





Scan for Portal

MSKGL/ED/2023-24/004981

TEST REPORT

Report No. : Name & Address of Customer:

28/02/2024 Date:

Tata Stool Lid.(MGM) Joda West

Sample No. :

AbPo. - Juda Dist - Kearcher, Odisha - 756034 India Pin

MSKGL/EDQ0Z3-24/02/81034 3000156017, Date - 28/09/2023 Reference No. & Date :

We hereby cartify that the following simula Drewn by us has been analyzed with the following results:

Va hereby curtily mad the manusing serrous arrown by our con-	AIR
1, Group	Ambient Air
Description of sample	Juda West Iron & Mn Mines
t. Unique identification of sample(if any)	23/02/2024
t. Date of sampling	Near D-Quarry Shorting Yard-JWIMM
I. Place of sampling	Clair & Simile
Environmental conditions during sampling & Transport	NA.
7. Sampling Plan & Method used	Tileo

Report No.: MSKGL/ED/2023-24/004981

Sample No. : MSKGL/E0/2023-24/02/01/034

RESULT

matysis Result of Ambient Air					
SI No.	Parameter	DOM	Method	Linit	Kenne
DI HIO	1,000	meno.gm/m3	15 5182 (Part 25)	400 24 HFL	15.0
1	Ammonia (NH3)		IS: 5182 (Part 10) (O)	2 BHR.	0.54
2	Carbon Monoxide (CO)	mgres3	IB: E162 (Part 6)_(O)	80 24 HR.	21.7
3	Mitrogen Dicxide (NO2)	micro gmina		180 1 HR.	BDL(DL:20.0)
4	Cizone (CB)	micro gm/m3	(8 9162 (Part 9)	100 24 HR	210
B 1	Participale Matter (<10st)	micro gm/m3	(S. 5182 (Part 23)_(O)		
	Particulos Matter (<2.5um)	micro graind	(5 5182 (PT-24), 2019_(O)	60 24 HFL	109
0	Sulphur Disside (SD2)	micro grows	(S: 5182 (Part 2) (O)	80 24 FR.	7.4

END-

Report Verified By

Hand Office:



For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 45, Udayan industrial Estate, 3, Pagladanga Road, Kolksta 700015 West Bangal

Name & Address of Customer :

At/Po - Joda Otx. - Keoninar, Coshe - 759034 India

Tata Steel Litt.(MGM)_Jode West

Tel: +91.7044036120

Email: udayanlab@mltrask.com







Scan for Portal

ULR: TC-6950240000003526F

Doc No. MSK/GEN/1007

TESTING + INSPECTION

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance; Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/Y138ED

08/03/2024

MSKNB/ED/2023-24/02/DQ406K

26/02/2024

76/02/2024 - 06/03/2024

Permanent Facility

3000156017/066, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

As the country of the	Almospheric Pollution
1. Group	Ambient Air
Description of sample Unique Identification of sample(If any)	NA .
And the second s	23/02/2024
4. Data of sampling	Near H-Quarry Rest Shaber JWIMM
5, Place of sempling. 6. Environmental conditions during sempling & Transport	Temperature :18-27 dog C 2) Barometric Pressure: 706 mm of Hg 3) Rum full No 5 Cold Chain Maintained.
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
ii. Identification of the personnel performing sampling by MSK.	Lelin Kumar Nak
9. Fluid Equipments Used	MSK/BBL/FIELD/RDS-1

MSKPL/ED/2023-24/Y13BED Report No. :

Sample No.: MSKNB/ED/2023-24/02/DO408K

RESULT

Chemical					
SI No.	Parameter	UOM	Mettrosi	Limit	Restill
DI Pro-		ng/m3	USEPA-IO 3.4, June	5 (Annual)	BDL(DL:1.8)
1	Arsenic as (As)	miara gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL 4.2)
2	Bengene		(S 5182 (Part 12)	f (Annual)	BDL(DL:0.5)
3	Benzo(s)Pyréne	rg/m3		1 (24 Hoors)	0.02
4	Leed (as Pb.)	micro gm/m3	USEPA40 3.4; June		0.17
Æ	Manganese as Mn	micro-gm/m3	USEPA-IO 3.4: June	Net Specified	
-	Nickel as N/	eg/m3	USEPA-IO 3.4 Ame	20 (Annual)	BDL(DL:5.0)

Opinion

Limit as per CPCB notification. New Dellin, 18th Wovember 2009. for Aminenti air quality

MA Statement of Conformity

END.

IIV Devining Born

Designation

Test American In Charge

Autenmed Signatory

Dr. Develten Bereyer

Description

Tonavano in Chinesia

The project shall not be reconstanted motion in Not without the permanent of Math S IX. Dresses Leading
This Took Report what not be reconstanted motion in Not without the permanent of Math S IX. Dresses Leading at 15 15 days must the date of secure the Term Report. Neverther complete insult be retained to 15 days must the date of secure the Term Report. Neverther complete insult be retained to 15 days must the date of secure the Term Report.

The overther by Term Report.

Senecia Contra Con Floor: Y48, A.J.C. Rose Reed, Robust - TBCDH, Verill Senecid Artis. Tel.: 94 33 43145000 (22700007 Feb.: 5113) 2050000 Enail: interpretations con Visiones : www.mitrele.com Head Office:



Address of Branch:

P.O. Buroli Dt Keenijkar Orlssa 758 035





Scan for Portal

TEST REPORT

Name & Address of Customer :

Tate Steet Ltd.(MGM)_.lock West

Al-Po. - Joda, Disn. - Kaonjbar, Odens - 758034 Indis Pin

Report No.:

MSKGL/ED/2023-29/004889

29/02/2024 Date:

MSKGL/HD/2023-24/02/01/033 Sample No.:

3000156017, Date - 28/09/2023 Reference No. & Date :

by cartify that the following sample Drawn by us than been insulyzed with the following results:

No ridicity carrier than the londers if white a second of	AIR
1, Group	Ambient Air
2. Description of sample	Joda West Iron & Mo Mines
Unique Identification of sample if any)	23/02/2024
4. Date of sampling	Near H-Ososty Rost Sheltor-WIMM
5. Place of sampling 6. Environmental conditions during sampling & Transport	Class & Surrry
7 Sampling Plan & Method used	NA NA

Report No.: MSKGL/ED/2023-24/064989

Sample No.: MSKGL/ED/2023-24/02/01033

RESULT

nalysis f	Result of Ambient Air			-	-
SI Nu.	Parameter	HOM	bodisM	Limit	Result
D4 NILL	A MANUTON L	macra gm/m3	4S 5182 (Part 25)	400 24 HR:	17.3
1	Ammonia (NH3)	Gmigm	(S. 5182 (Part 10) (O)	2 2000	9,47
2	Carbon Monroide (CO)	micro om/m3	(S. 5182 (Part 6), (O)	88 24 HR.	21.8
3	Ntrogan Dioxice (NOZ)	micro grains	19 51/(2 (Part 9)	180 1 HR.	80L(0L:20.0
4	Cunni (03)	micro gruino	IS: 5182 (Part 23) (O)	100 24 HR.	192
5	Particulate Matter (<10um)	micro gmini3	IS 5182 (PT-24) 2019 (O)	60 24 Hft.	94
Ü.	Particulate Mittler (<2.5um) Sulphur Dioxide (SO2)	man grims	(S: 5182 (Part 2)_(0)	60 24 set	8.4

END -

Report Verified By

For Mitra S. K. Private Limited

-3000 Authorised Signatory

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolketa 700015

Name & Address of Customer:

AVPo. - Joda Dist. - Keonihar, Odisha - 758934 India

Tata Stepi Ltd.(MGM)_Joda West

West Bengal Tel.: +91 7044036120

Email: udayar.lab@mitrass.com





Scan for Portal

ULR: TC-895024000003528F

DOCNO, MOKIDION/1907

TE ATTN G + INSPECTION

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample;

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUED/2023-24/5138E4

06/03/2024

MSKNB/ED/2023-24/02/GB404F

26/02/2024

26/02/2024 - 05/03/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following semple Drawn by us has been analyzed with the following results:

1. Group	Almospheric Pollution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA
4. Date of sampling	25/02/2024
5. Place of sampling	Near D-Quarry Screen Plant-JWMM
6. Environmental conditions during sampling & Transport	1) Temperature: 18-27 deg C 2) Barometric Pressure: 706 mm of Fig 3) Ram tall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
6. Identification of the personnel performing sampling by MSK.	Latin Kemar Naik
9. Fleid Equipments Used	MSK/BBL/FIELD/RDS-8

Report No. : MSKPL/EE/2025-24/5138E4

Sample No.: MSKNB/ED/2023-24/02/GB404F

RESULT

Chemical					
St No.	Parameter	OCM	Method	Limit	Resilit
4	Arsenc as (As)	Em/mil	USEPA-10-3,4, June	6 (Annuel)	BDL(DL-1.0)
2	Benzene	micro gm/m3	(5 5182 (Part 11)	5 (Annuel)	BDL(DC:4.2)
3	Benzo(a)Pyrene	ing/m3	IS 5182 (Part 12)	1 (Annual)	BOLIOL 0.57
4	Land (as Pb)	micro.gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL:0.01)
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4; June	Not Specified	0.25
8	Nickel as Ni	ing/m3	USEPA-IO 3.4, June	20 (Annual)	BOL(DL:5.9)

Opinion T

Limit as our CPCS notification, New Destry 18th November 2009, for remblent ar quality

Statement of Conformity MA

END

Square

Dr. Doubton Rowers

Designation

Technical In Charge

Signature

00 Banus no

Or Governory Humaniyaa Technical in Charge

The residence's to the sensity except.
The Test Report shall not be reproduced accept in full willout the permission of Name S.K. Poyers Limited.
The reserved not of sensitive for the report shall be reported accepted by the Poyers (Non-permission authority) from Water of the 15 days received does of limited of the Test Report. Personalise authority and the remaining 2 days from the date of limited of the Test Report.

bigs for charactel againstic (Box Billio & Liquid World) shall be researed for 15 days as and DPCS suicidian & (All) it moves traction of most of the Test Report.

Threcht Certin (No. Floor), 74B. A.J.C. Book Roset, Roberts - 700015, Visial Shimusi, Hiska. Tell 91 83 40143000 / 2003000 Fee: 91 33 2265006 Emil 1 Win@ritiosk.com Website Www.cettelk.com

Page 1 of t

At/Po. - Joda, Gist - Katrijhar, Odisha - 758034 Ireta Phr



P.O. Berbli Dt Keoninar Urisea 756 035

Tata Steel Ltd.(MGSI) Joda West





Scan for Portal

TEST REPORT

Name & Address of Customer: Report No.:

Date :

MSKGL/ED/2023-24/054984

28/02/2024

Sample No. :

MSKGL/ED/2023-24/82/01035

Reference No. & Date :

3000166017, Date - 28/09/2023

We hereby certify that the following sample Drawn by its has been analyzed with the following results:

1, Group	AIR
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	Jode West Iron & Mn Mines
4. Date of sampling	23/02/2024
5. Place of sampling	Near D-Guarry Screen Plant-JWIMM
6. Environmental conditions during sampling & Transport	Clear & Sunny
7. Sampling Plan & Method used	NA:

Report No.; MSKGL/ED/2023-24/004884

Sample No. : MSKGUED/2023-2-002/1/1035

RESULT

Analysis Result of Ambient Air						
SI No.	Parameter	UDM	Method	Link	Result	
1	Amronnia (MrG)	mara green)	IS 5182 (Part 25)	400 24 HR.	15.1	
2	Carbon Monoxide (CO)	Emigra	(S) 5182 (Part 16) (O)	2 8HR	0.64	
3	Nitrogen Dioxide (NO2)	micro gm/m3	(S: 5182 (Part 6)_(O)	80 24 HR.	22.6	
4	Ozone (O3)	micau-grivm3	S 5182 (Part 9)	180.1 HR.	BOL(DL:20,0)	
5	Particulate Matter (<10cm)	mikim gm/m3	IS: 6152 (Part 23)_(O)	100 24 148.	209	
6	Rediration Matter (<2.5um)	mians gmins	(S 5182 (FT-24), 2019_(O)	60 24 HR.	95	
7	Signus Dievide (SD2)	Emirry grains	(5: 5182 (Part 2): (D)	80 24 HR.	6.9	

___ END ___

Report Verilled By

Hant Office:

For Mitra S. K. Private Limited

Authorised Signatory

Street Centre (At Febr), 745, AuG. Rest Rent, School. 10019 Street Section (6) 39 39 60 6000 (2000000 Febr) 37 37 29 39 30 50 February Schools (Atlanta Schools

Address of Laboratory :

Building No. P. 45. Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer:

At/Po - Jona Dist. - Keominar, Ogisha - 758034 Innis Pin

Teta-Stock Ltd.(MGM)_loda West

West Bangal Tel.: +91 7044036120

Email: udayarlab@mlirask.com





Scan for Portal

ULR: TC-695024000003530F

Dec No. MERKICHAMPET

TESTING & WEPSITION

TEST REPORT

Report No.:

Date :

Sample No. 7

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/H138EG

06/03/2024

MSKNB/ED/2023-24/02/504690

28/02/2024

26/02/2024 - 06/03/2024

Permanent Facility

3000156017/056, Data - 16/09/2023

Chemical

le hereby cently that the following sample Drawn by us has been enalyz	Atmospheric Poliution
1. Group	Ambiert Air
Description of sample	NA
3. Unique Identification of sample(if any)	23/02/2024
L Date of sampling	
5. Place of sampling	1) Temperature (18-27 deg C 2) Sarometric Pressum: 708 mm of Hig 3) Rain tal
6. Environmental conditions during sampling & Transport	No. & Cold Chain Mainteined
7, Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
, Sampling Plan & resident opens	Estin Kurnar Nati
Identification of the personnel performing sampling by MSK Field Equipments Used	MSK/BBL/FIELD/RDS-3

MSKPL/ELV2023-24/H13BEQ Report No. :

MSKNB/ED/2023-24/02/S0403Q Sample No. :

RESULT

Constant Constant						
hemical	-	MON	Markhant	Limit	Results	
EI NO.	Parameter	1	USEPA-IO 3 4. June	6 (Armuel)	BDU(DL:1/0)	
1	Arsenic as (As)	ng/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:42)	
2	Benzene	micro gm/m3		(Isunina) r	BDL(DL:0.5)	
3	Benzo(e)Pyrene	ng/m3	IS 5182 (Fart 12)	1 (24 Hours)	BDL(DL 6 01)	
4	Lead (as Ph.)	micro gm/m3	USEPA-IO 3.4, June	Not Specified	0.35	
5	Manganese as Mn	micro-gmins3	USEPA-IO 3.4; June	20 (Annual)	BDL(DL 5.0)	
	Nickel as fili	no/m3	USEPA-ID 3.4 June	SA Americal	1	

Optnion:

Limit as per CPC8 notification, New Oefni, 18th November 2009, for Ambient alt quality

Statement of Conformity

NA

END

Respond for

Dr. Describes Bordel Name

Technical In Charge Disagniston

SUMMERS.

Dannya Dr. Devotion Barrier

Titarreck in Charge

The results trained only in the series indied.

The Test Report shall not be reproduced example in Aut, without the permission of Mars 8.K. Provide Limited.

The Test Report shall not be reproduced example in Aut, without the permission something food. While I shall be released for 15 days not the last on auchies for T aut Report. Permission example in the result of the result of the result of the Test Report.

The resolved part of administration for description (Res. Science, Liquid Monday and the result of 16 days of DPCS guidance is (Air 1 month from the date of specific the Test Report.)

Shewtr Contro (2th Flori), 748, A.J.C. Brain Road, riceasis -73004E. Watt Bengal, feet a. Fol., 191 25:4554300 (72350007 Fax. 10) 35 22456000 Errain and greatest control Website : were critical and p



P.O. Barbil Dt Keoninar Orissa 786 035





Sean for Portal

TEST REPORT

Name & Address of Customer :

Report No. :

MSKGL/ED/2023-24/004985

Tata Steel Ltd.(MCM)_Jock West

Date : Sample No. :

MSKGL/ED/2023-24/02/01037

AtPo. Joda, Dist. - Keonjaar, Odefin - 758034 Inda Pin

Reference No. & Date: 3000156017, Date - 28/09/2023

29/02/2024

We hereby certify that the following sample Drawn by us that been assigned with the following results:

1. Group	AIR
2. Description of sample	Ambient Air.
3. Unique Identification of sample(If any)	Joda West Iron & Mn Mines
4. Data of sanopling	23/02/2024
5. Place of sampling	Nutr Railway Siding JWMM
6. Environmental conditions during sampling & Transport	Clear & Sunny
7. Ssempling Plan & Method used	NA

Report No.: MSKGL/E0/2023-24/004965

Sample No.; MSKGL/ED/2023-24/02/01037

RESULT

Analysis Result of Ambient Air						
SI No.	Paramiter	UOW	Method	Limit	Result	
-	Ammonia (NH3)	micro gm/m/l	IS 5182 (Part 25)	400 24 HR	153	
2	Carbon Monovide (CO)	mg/m3	IS: 5182 (Part 10) (O)	2 (HR.	0.83	
3	Nitrogen Dioxide (ND2)	micro gm/m3	rs: 5182 (Part 6)_(0)	80 24 HR.	19.5	
4 1	Özone (GS)	mirro grows	(\$ 5192 (Part 9)	180 1 HR.	BOLIDE 20.0	
5	Particulate Matter (<10um)	micro gm/m3	(S: 5182 (Part 23) (O)	100 24 HR,	922	
5	Particulate Matter (<2,5um)	micro grovina	IS 5182 (PT-24),2919_(O)	60 24 HR.	108	
7	Salphur Dioxide (SO2)	micro gm/m3	IS: 5182 (Part 2)_(O)	60 24 HR.	0.9	

END -

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Koloda 700015 West Bengal

Name & Address of Customer:

AyPo, Joda, Det. - Keonjhar, Otisha - 758034 Indie Pvi

Tata 5teel (Id (MGM), Joda Weel

Tel :+91 7044038120

Emait udayanlab@merask.com







MSKPL/ED/2023-24/K138/EG

Scan for Portal

ULR: TC-895024000003529F

DOI: NO MERCAENTINO

TESTING + NEPECTION

TEST REPORT

Report No.:

06/03/2024 Date:

MSKNB/ED/2023-24/02/HQ407/L Sample No.: 26/02/2024 Date of receipt of sample:

26/02/2024 - 06/03/2024 Date(s) of performance:

Permanent Facility Location of performance of

3000156017/056, Date - 16/09/2023 Reference No. & Date:

Chemical Discipline:

We have by certify that the following summe Drawn by us has been analyzed with the following results:

1. Group	Almospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	23/02/2024
5. Place of sampling.	Near Gangeiguda Pili JWMM
5. Environmental conditions during sampling & Transport	1) Temperature: 18-27 dog C 2) Darometric Pressure: 708 mm of Hg 3) Rain lat : No & Cold Chain Magnatained
7. Sampling Plan & Method used	IS:6182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Esitr Kumar Nolk
B. Field Equipments Used	MSK/BBL/FIELD/RDS-4

Report No.: MSKPL/ED/2023-24/K198EG

Sample No.: MSKNB/ED/2023-24/02/HQ4072

RESULT

Chemical						
Si No.	Parameter	TOW	Motood	Limit	Result	
4	Arsenic 86 (As)	ng/m/3	DSEPA/C 3.4, June	8 (Annual)	30L(0L:1.0)	
9	Senzene	micro gm/m3	IS 5182 (Part 11).	6 (Annual)	BDL(DUAZ)	
3	Benizo(a)Pyrene	mg/mil.	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)	
4	Lead (as Ph.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL:0.01)	
-5	Manganese as Mn	micro gm/m3	LISEPA 40 3.4: June	Not Specified	0.17	
6	Nickel as NI	ng/m3	USEPAJO 3.4, June	20 (Annual)	BOL(DL:5:0)	

Opinion 1

Limit as per CPCB notification, New Delhy, 18th November 2009; for Architect air quality

Statement of Conformity

END -

Havewed By

2 Dance STREET Dr Grastier Bioryck

Disagnation - Tooyshed in Chargo

Authorized Signatury

Dr. Deschiaro Bancey

Degration

Technical in Clinical

The Test Report stant not be reported except in full, version the portressor of Macs 5 %. Provide Lower the Color of Service of the Test Report. Person plot samples to stand the Service Service samples to the resolution of the Service Ser

Store the date of limite of the Test Report.
The many year and of semplots for characteristic sprayers (Sof. Sofis & Lapset Wester) must be received by 15 camp as per SPCS publisher 5 (As) 1 (novel for characteristics) and of the Test Report.

AVPo. - Aida, Dist. : Keonimir, Odena - 758034 India Pin



Address of Branch:

P.O. Bartel Dt Konnthar Orissa 758 035

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joes West



Scan for Poetal

TEST REPORT

Report No. :

MSKGL/ED/2023-24/004991

Date:

29/02/2024

Sample No.:

MSKGL/ED/2023-24/02/01/036

Reference No. & Date :

3000156017, Date - 28/09/2023

We handy curely their ine following sample Drawn by us has been analyzed with the following results:

1. Group	AR
2. Description of sample	Ambient Air
3. Unique Identification of sample(V any)	Joda West Iron & Min Minos
4. Date of sampling	23/02/2024
5. Place of sampling	New Gangaiguda Pit-JWMMI
6. Environmental conditions during sumpling & Transport	Diear & Sunny
7. Sampling Pian & Mulhod used	NA NA

Report No.: MSKGL/E0/2023-24/004981

Sample No.: M8KGL/ED/2023-24/02/01036

RESULT

inalysis Result of Ambient Air							
Paramilier	UOM	Method	Limit.	Result			
Americania (NR1S)	imicro grafins	(S 5182 (Part 25)	400 24 HFC	15.3			
The second secon	Em/gra	(8: 5182 (Part 10), (O)	2 BHR.	6.37			
	Emiling orbins	ts: 5182 (Purt 6)_(0)	80 24 FIR.	22.4			
Oznne (O3)	micro gming	IS 5182 (Part 9)	180 t HR.	BOL(OL:20.0)			
Particulate Matter (<10um)	micro gm/m3	15: 5182 (Part 23)_(O)	100 24 HB.	208			
Parsoulate Matter (<2.5um)	mices goving	IS 5182 [PT-24),2019_(C)	80 24 HR.	96			
	micso govino	(S. 5182 (Part Z) (O)	180 24 HRL	7.0			
	Parameter Ammonie (PRS) Carbon Monoxide (CO) Nilmgen Dronkle (NO2) Ozone (CS) Particulate Matter (<10um)	Parameter UOM Ammonie (PAS) micro gre/m3 Carbon Monocide (CO) ing/m3 Nitrogen Dioxide (NO2) inicro gre/m3 Ozone (CO3) inicro gre/m3 Particulate Matter (<10um) inicro gre/m3 Parsociate Matter (<2.5um) inicro gre/m3	Parameter UOM Method	Parameter UOM Method Limit Ammonie (P&S) micro grafes (5.5182 (Part 25)) 400.24 HR. Carbon Monocode (CO) reg/m3 (5.5182 (Part 10), (O)) 2.8HR. Nitrogen Droxide (NO2) micro grafes (5.5182 (Part 6), (O)) 80.24 HR. Ozone (CO3) micro grafes (5.5182 (Part 9)) 180.1 HR. Particulate Matter (<10um)			

END-

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer :

AliPo. - Joda, Dtst. - Keonjher, Odlana - 758034 India

Twis Steel Lini.(MGM)_Joda West

West Bergal

Tel.: +91 7044035120

Email: udayanlab@mit/ask.com





Scan for Portal

ULR: TG-8950240000003058F

COS NO. MENGENTINO

HESTING & INSPERTION

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/51311D

27/02/2024

MSKNB/ED/2023-24/02/PJ115X

12/02/2024

12/02/2024 - 27/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

f, Group	Atmospheric Poliution
2. Description of sample	Ambiert Air
3. Unique Identification of sample(If any)	NA
1. Date of sampling	10/02/2024
5. Place of sampling	Joda West Camp
8. Environmental conditions during sampling & Transport	1) Temperature :14-25 deg C 2) Barometric Pressure: 7-14 mm of Hg 3) Rain fall. No 5 Gold Chain Maintained
7, Sampling Plan & Method used	JS:5182(P-11,12) & USEPA
5. Identification of the personnel performing sampling by MSK	Dansrodyar Das
9, Fleid Equipments Used	MSK/BBL/FIELD/RDS-16

Report No.: MSKPL/ED/2023-24/61311D

Sample No. : MSKNB/ED/2023-24/02/FJ115X

RESULT

Chemical						
SI No.	Parameter	NOM	Method	Limit	Result	
4	Arsenic as (As)	EWor	USEPA-IO 3.4, June	6 (Annual)	801(01:10)	
2	Benzene	micro gmim3	IS 5182 (Part 11)	5 (Annual)	80L(0L:4.2)	
3	Benzo(a)Pyrene	£m/gn	IS 5182 (Part 12)	y (Annual)	BDL(DL0.5)	
4	Leed (as Pb')	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL 0.01)	
5	Mangacese as Mn	micro-amimil	USEPA-IO 3.4: June	Not Specified	0.17	
8	Nickel as Ni	malm3	USEPA-IO 3.4, Junio	20 (Annual)	BDL(DL:5.0)	

Opinion:

Limit as per CPCB notification, New Ouths, 18th Nevermon 2009; for Ambient air quality

Statement of Conformity NA

END -

Restricted By

Spales Servi

Designations

Eastern Charge

Authorated BigWelloric

Designation

Labbiguage

This Teat Poport small risk be identified income, in its, verified the permission of black & M. Prophy Limited
The hadrest part of samples for Chercal analysis (Non-permission samples) Food. Western shall be related for T5 days from the date of liaurus the Test Report. Permission samples (Non-permission samples) Food. Western shall be related for T5 days from the date of liaurus the Test Report.
The teamped part of samples for Cest Report.
The teamped part of samples for decrease analysis (Non-power) Food. Subject the related for T5 days from the date of samples for the power of the population of the Cest Report.
The reserved part of samples for Mapping Sold analysis (Non-power) Food. Senior Vestor, Senior Vestor, Senior Vestor, Senior Sold, attail be related for T5 days from the date of samples (Non-power) for the foreign (Non-power) for the date of samples (Non-power) for the foreign (Non-power) for the date of samples (Non-power) for the foreign (Non-power)

Need Office:

Britard Centre (Str. Freor), Tels, A.J.C. Boxer Road, Kolhaki - 189016, West Britan, Freis. Tel.: 91:55-49140009720400007 Feb.: 01:38:25901059 Empi: Infragransia pain Waltelle: WWW.Infraek.com



P.O. Barbil Dt Keonthar Oressa 769 (GS

Name & Address of Customer:

Take Stani Ltd.(MGM) Jode West





Scan for Portal

TEST REPORT

Reference No. & Date :

Report No. :

M8KGL/ED/2023-24/004883

Date:

19/02/2024

AnPro - India Dist - Keomhar Orfisha - 758034 India Pin

MSKGL/ED/2023-24/02/00276

3000150017/056, Date - 15/99/2023

We namely centry that the following sample Drawn by its hes bosn assayzed with the following results:

1. Group	AR
2. Description of sample	Ambiest Air
3. Unique identification of sample(if any)	Jode West Iron & Marganese Minus (JWIMM)
4. Date of sampling	10/02/2024
5. Place of sampling	Jode West Carrip
6. Environmental conditions during sampling & Transport	Clear & Suntry
7. Sampling Plan & Wethod used	NA .

Report No.: MSKGL/ED/2023-24/00/4883

Sample No.: MSKGL/ED/2023-24/02/00276

RESULT

Analysis Result of Ambient Air						
SI No.	Parameter	DOW	Method	Limit	Result	
1	Amuronia (NH3)	midro gravenz	(8 5162 (Part 25)	400 24 HR.	16.8	
9	Carbon Monoxide (C/O)	Evilian	IS: 5182 (Part 10) (O)	2 BHR.	5.43	
3	Nitrogen Digwith (NO2)	mitto gni/m3	(S: 5182 (Part 5), (O)	80 34 HR	23.1	
4	Cizóna (CO)	migro grains	IS 5162 (Part 9)	180 f HR.	<20.0	
6	Particulate Metter (<10um)	micro gravino	(S: 5182 (Part 23)_(0)	100 24 HR.	179	
6	Participate Matter (<2.5um)	miora govena	IS 5182 (PT-24),2019_{(0)	BD 24 16C	26	
2	Subbur Dexide (SOV)	micro quinco	IS: 5182 (Part 2) (O)	80-24 FIR.	7.2	

-END ---

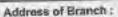
Report Verified By

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Synatr Count (28 Poor, 745, A.J.C. Sove Road, A.Bost. 1900) Si West Simon India. Nel : pt 22 4044000 / 2200000 Fpc. 19-32 22450000 Const Landground too; Westode. www.colone.com



P.O. Berbil Dr Kenrihar Orasa 758 025





Scan for Partal

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AtPo. - Joda, Det - Kwonitar, Odsma - 758034 India Pin

TEST REPORT

Report No. :

Date:

Sample No. 1

Reference No. & Date :

MSKGL/ED/2023-24/004882

19/02/2024

MSKGL/ED/2023-24/02/00276

3000166017/056, Decc - 15/09/2023

Tenan by us his tolerand stands Denan by us hits been unalized with the following results:

the hemility contribution municipation and a surface beautiful by see that become a	AIR
1. Group	Aintrient Air
2. Duscription of sample	Joda West Iron & Manganese Mines (JWIMM)
3. Unique Identification of sample(if any)	10/02/2024
4. Date of sampling	Lab Bulkans - Joda.
N Place of sampling	Cheer & Sundy
6. Environmental conditions during sampling 6 Transport	NA
T. Sampling Plan & Method used	- Maria

Report No.: MSKGL/EDI2023-24/004882

Sample No.: MSKGUED/2023-24/02/09275

RESULT

natysis Result of Ambient Air Result						
SI No.	Paramoter	LIOM	Mothed	Limit	10000	
or no.	12.5	Eyvleng grown	ts 5182 (Part 25)	408 24 HFL	17.2	
1	Ammunia (1013)		15: 5182 (Part 10), (O)	2 BHR.	0,39	
2	Carbon Monoxide (CO)	mg/m3.	IS: 5182 (Part 6)_(O)	90 24 HR.	22.7	
3	National Disside (NG2)	micro granta		180 1 HR.	<20.0	
4	Ozone (O3)	micro gm/m3	15 5182 (Part 0)	100 24 HR.	112	
6	Particulate Matter (<10km)	micro gmim2	f5: 6182 (Part 23)_(O)			
	Particulate Matter (<2.5um)	migra gm/m3	IS 5182 (PT-24),2019_(D)	60 24 HR.	55	
0	Sulphur Dioxide (SO2)	micro privino	IS: \$182 (Part 2)_(O)	80 24 HR	6.9	

END-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Should Count (the Picon, 198, K.J.C. Spor Plant, K./Assa, 1909/99, Nach Kingst Hebb. Tel., 91:30:40143000 (2796)460 (bar. 91:35-2040)468 Evail (Intelligent and William) over Historical Page 1 of 1

Head Office:

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate. 3, Pagadanga Rosd, Kolkata 700015

Name & Address of Customer :

AtrPo. - Jods, Diel. - Keeniher, Odisha - 758034 India

West Bengal

Tel. 1+91 70/4038120

Email: udayanlab@intrask.com

Tata Steel Ltd.(MGM)_Jodn West





Scan for Ponsi

ULR: TC-696024000003088F

DOCKS, MEGGERMAN

TESTING + WAFECTION

TEST REPORT

Report No. :

Date:

27/02/2024

MSKNB/ED/2023-24/02/UC312F Sample No.:

19/02/2024 Date of receipt of sample:

Date(s) of performance: Location of performance of

19/02/2024 - 27/02/2074 Permanent Facility

MSKPL/ED/2023-24/813380

Reference No. & Date:

3000158017/056, Date - 16/09/2023

Chemidal Discipline:

We havely certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA.
4. Data of sampling	17/02/2024
8. Place of sampling	Near General Office Khanbandh
6. Environmental conditions during sampling & Transport	Temperature :18-27 deg C 2) Barometric Pressure: 714 mm of Hg 3) Rain fall: No & Coto Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK.	Mukesh Hitaura
9. Field Equipments Used	MSK/BSL/FIELD/RDS-18

Report No. 1 MSKPL/ED/2023-24/813380

Sample No.: MSKNB/ED/2023-24/02/J/C312F

RESULT

Chemical					
SI No.	Parameter	MOM	Mediad	Eimit.	Result
1	Arsenic as (As)	ngámS	USEPA-ID 3.4, June	& (Annual)	BDL(DL 1.0)
2	Sanzene	micro gm/m3	15 5182 (Part 11)	± (Annual)	BDL(DL4.2)
3	Sonzo(a)Pyrene	ng/m3	18 5182 (Part 12)	1 (Annual)	HOL(OL 0.5)
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.09
5	Manganese as Mri	micro gm/m3	USEPA-IO 3.4: June	Not Specified	4.21
6	Nickei as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annuali)	23.0

Opinion:

Livit as per CPCB notification, New Delivi, 15th November 2009, for Aministral quality

Statement of Conformity

END.

Stavewed the

Screture Heren

My Fill Grow

Description: Francisco Chambri Authorized Signalization

Signature

MEATE

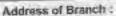
Designation

Life by offeror

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The inserved part of complets) for chemical encaying (Stall, Solid & Liceard Washin) shall be retained by 15 days as con CPCB guaraine & [Au.) I munth from the date of secure of the Treat Popular.
The reserved part of complets) for Microbiological encircle (Mon-personales complete) Fond, Section Reserved Reserved Reserved In the 16 days from the date of install the Treat Report

Street's Certain (5th Floor), F4B, A.J.C. Bowe Rout, Hilliams - 760016, West Bengel, 81811 T41 - 01 33 401 43080 / 28660307 Fox: 91 33 20000039 Head Office: Ecol. Inlognitusk.com Websel www.mitresk.com



P.O. Barbil Di Keonihar Ontes 758 035

Name & Address of Customer:





Scan for Fortid

TEST REPORT

Report No. ;

Sample No. :

Date:

MSKGL/FD/2023-24/004951

26/(0/0024

Tata Steel Ltd (MGM), Joda Weel AliPo - Joda Gist. - Keorijnar, Odelni - 758034. India Pin 26/(0/20

MSKGL/ED/2023-24/02/01020

Reference No. & Date :

3000156017/056, Date - 15/00/0023

We constly curtify that the following swingle Drawn by as has been analyzed with the following results:

An protective county, turns to conserve a sense of course and conserve	AJR
1, Group	Amtisint Air
2. Description of sumple	Joda West Iron & Mit Mines
2. Unique Identification of sample(if any)	17/02/2020
4. Date of sampling	New General Office Hnantsendh
5. Place of sampling	Carar & Sonny
b. Environmental conditions during sampling & Transport	nA .
7 Sameline Plan & Method used	The state of the s

Report No. : MSKGLIED/2023/24/004951

Sample No.: MSKGL/ED/2023-24/02/01/020

RESULT

nalysis h	Result of Ambient Air	T ware	Method	Limit	Result
St No.	Parameter	MOR	340000	400. 24 HR.	+10.0
-	Ammonia (NH3)	mioro gm/m3	IS 5182 (Part 26)	17.00	0.40
-	Carbon Monoxide (CO)	=g/mä	(B) 5182 (Part 10) (O)	2 8HR.	
2		micro gm/m3	IS: 5182 (Part 6) (O)	80 24 HR	19.4
3	Nitrogen Dioxide (NO2)		(S 5182 (Part 9)	180 1 HPL	<20.0
4	George (C3)	minn grains		106 24 HR.	122
5	Particulate Matter (<10cm)	micro gra/m3	(5: 5182 (Part 23) (O)	60 24 HR	58
-	Particulate Manter (<2.5um)	micro gm/m3	IS SIEZ (PT-24), 2010_(O)		1
9	Sulphur Disside (SO2)	micro gmmb	(S: 5182 (Part 2)_(O)	80.24 HR.	6,8

-END-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Page 1 of 1

Head Office:

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3. Pagladange Road, Kolkers 700016 West Sengal

Tel.; +91 7044036120

Email: udayanleb@mirask.com





Scan for Portal

ULR: TC-895024000003087F

DOC TWY MEDICIDENT SHIP

TEST IN G . INSPECTION

Name & Address of Customer :

Tata Steel Ltd. (MGM)_Inda West

AUPo - Joda Dist. - Keonmar Colana - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/913388

27/02/2024

MSKNB/ED/2023-24/02/5A313V

19/02/2024

19/02/2024 - 27/02/2024

Permanent Facility

3000158017/056, Date - 16/09/2023

Chemical

by certify that the following sample Drawn by us had been amilyzed with the following results:

1 Course	Almospheric Pollution
1. Group	Ambient Air
Description of sample Unique identification of sample(if any)	NA
the state of the s	17/02/2024
4. Date of sampling	Keth hulling Pump House
5. Place of sampling 6. Environmental conditions during manpling & Trensport	Temperature :18-27 deg C 2) Barometric Pressure: 714 mm of Hg 3) Rain full tip & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5/82(P-11,12) & USEPA
High distribution of the personnel performing sampling by MSK Pold Equipments Used	Miskigh Hiburu MISK/BBL/FIELD/RDS-18

MSKPL/ED/2023-24/913385 Report No.:

Sample No.: MSKNB/ED/2023-24/02/5A313V

RESULT

hemical						
SI No.	Parameter	DOM	Mathod	Limit	Result	
ai mu.	11111111	ng/m3	USEPA-10 3.4, June	5 (Armuel)	BDL(DL1.4)	
1	Arsenio as (As)		1S 5182 (Part 11)	5 (Annual)	BOL(DL42)	
2	Elenzone	micro gm/m3	(5 5182 (Part 12)	1 (Annual)	BDL(BL:0.5)	
3	Burzo(a)Pyrene	ng/m3		1 (24 Hours)	BOL(DL-0.01)	
4	Lead (as Pb.)	miare gm/m3	LISEPA-IO-3.4, June		The second secon	
	Manganese as Mn	micro gm/m3	LISEPA-IO 3.4: June	Not Specified	0.10	
	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)	

Opinion:

Limit as per CPCB notification, New Demi, 18th November 2009, for Ambient air quality.

NA Statement of Conformity

END

Per-05/

Executive Cheville

Automot Sprain y

Signature

SLAVO

Designation

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The Text Report shall not an expectation among in bit, versus, the permission of Mills S.K. Private Landon
The Text Report shall not an expectation among in bit, versus, the permission of Mills S.K. Private Landon
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Address of Branch :

P.O. Barbil Dt Koonjhar Drisse 758 035



TEST REPORT

Name & Address of Customer :

Tata Strent (Jul. (MGM)_Joda West

AtPo - Justa Diek - Keonihar, Odinha - 758034 India Pin

Report No. :

MSKGL/ED/2023-24/004950

26/02/2024 Date:

MSKGL/ED/2023-24/02/01019 Sample No.:

3000156017/055, Date - 15/09/2023 Reference No. & Date :

following sample Emain by us how bean analyzed with the following results:

We havely certify that the following stamped crimer by its risk areas.	AR
1. Group	Ambient Air
2. Description of sample	Joda West tron & Min Mines
3. Unique Identification of sample(if any)	17/02/2024
4. Date of sampling	Kall hutting Purup House
5. Piace of sampling	Clear & Sunny
8. Environmental conditions during sampling & Transport	
7. Sampling Plan & Method used	NA.

Report No.: MSKGL/ED/2023-24/004950

Sample No.: MSKGL/ED/2023-24/02/03018

RESULT

unalysis Result of Ambient Air					
m Mar	Paramotor	UOW	Method	Lines	Result
St No.		miezu genenă	IS 5182 (Part 25)	400 24 HR.	≠10.0
1	Amendania (NHII)	1000	IS: 5182 (Part 10) [O)	2 8HR.	0.38
2	Cartier Monoside (CO)	mg/m3	(S: 5182 (Part 5)_(Q)	80 24 HR	18.4
3	Nitragen Dioxide (NO2)	micro groins	IS 5182 (FWH 9)	180 1 HR.	<20.0
4	Cizone (CG)	micro gentri3		100 24 HR.	147
6	Particulate Matter (<10um)	micro gm/m3	IS: 5182 (Part 25)_(O)	60 24 HR.	62
6	Particulate Matter (<2.5orti)	micro gm/m3	IS 8182 (PT-24), 2019 (O)		7.3
7	Solobur Directide (SO2)	mirro (griffin)	45: 5182 (Part Z)_(O)	80 24 HR	10

EMD .

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Summit Certify (Add, Tiloc), TAR, A.J.C. Bana, Pages, A pages—190015, Yann) Design, Amer. Pag. - 01.33 At Astronom (2006) 17 Fac: 31.33 20060100 Cross - Maylin Break, page Myopita - seven certification (201).

Address of Laboratory :

Building No. P-48, Udayan Industrial Estate. 3. Pagiadanga Road, Knivata 700015 West Bengal

Name & Address of Customer:

AVPo. - Joda, Dist. - Kennihar, Odisha - 758034 India

Tel.: +91 7044038120

Email: udayanleb@mitrask.com

Tota Steel Ltd.(MGM), Jods West







Scan for Portal

ULM: TC-695024000003211F

Doc No.: MSHUGENVIA/U/

TESTING - HEFFETTION

TEST REPORT

Report No.:

Sample No.:

Date:

MISKIPL/ED/2023-24/E1SA9T

02/03/2024

MSKNB/ED/2023-2/J02/H23F95

23/02/2024 Date of receipt of sample:

Date(s) of performance:

23/02/2024 - 02/03/2024

Location of performance of

Permanent Facility

Reference No. & Date :

3000156017/066, Date - 16/09/2023

Discipline:

Chemical

We hereby sentily that the following sample Drawn by us has been analyzed with the following results.

1. Group	Atmospheric Poliution
2. Description of saniols	Ambient Air
3. Unique identification of sample(if any)	NA.
t, Dale of sampling	21/02/2024
5. Place of sampling	Administrative office, Bichalundi
6. Environmental conditions during sampling & Transport	Temperature : 19-29 deg C 2) Barometric Pressure: 706 mm of Hg 3) Rain full. No & Cold Chain Maintained.
7. Sampling Plan & Method used	(S:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Pratik Mantri
9. Field Equipments Used	MSK/BBILFIELD/RDS-18

M6KPL/ED/2023-24/E13A9T Report No. :

Sample No.: MSKNB/ED/2023-24/02/H23F95

RESULT

Chemical					
SI No	Parameter	Ubw	Method	Limit	Result
+	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL:1.0)
2	Benzene	micro gm/m3	18 5182 (Part 11)	5 (Annual)	BOL(D)_4-2)
3	Banzo(s)Pyrene	mg/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL 0.5)
4	Lead (as Pt)	micro.gm/m3	USEPA-10 3,4, June	5 (24 Hours)	SDL(DL:0.01)
6	Manganoso as Mn	milaro gm/m3	DSEPA-10 3.4: June	Not Specified	0.13
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Armual)	8.99

Opinion 7

Unit as per CPCB notification. New Dahi, 18th November 2009, for Avillant at quality

Statement of Conformity

END

Dr. Bloodward Develop

Yestman britishps Designation

Autorized Significa

(De) Barre

Dr. Devotan Bararpoi Tameical in otherse

The parameters of the marks) sented

The Test Report shall not be reported to the permission of Mess & C. Proces Limits.

The process period sentence of the Test Report (recombine transport) for permission is surprised from the measure 2 days not the case of the Test Report.

The process period sentence of the Test Report.

The reserved part of energiaging for characters analyses (Sci., Scied & Lapud Wester) email by received for 15 days on per CPCS guidaling is (Air 1 received from the case of the Test Report. The research part of energiaging the Resolution sections (No.) - premisted companies (Sci., Scied Wester) (Sci., Scied Sci.) (Sci., Scied Sci., S



Address of Branch :

P.O. Bartri Di Keonghair Chissa 758 035



Scan for Poetal

TEST REPORT

Name & Address of Customer: Tata Sture Ltd.(MGM) Joda West

AUPo. - Joda, Bist. - Keonijtal, Odeshe - 758034. India Pin

Report No. :

Date :

Sample No. : Reference No. & Date : MSKGL/ED/2023-24/004967

27/02/2024

MSKIIL/ED/2023-24/02/01017

3600156017.066, Dale - 15/09/2023

We parenty county that the following sample Drawn by us has been assigned with the following results:

te percey coulty that the following sample Drawn by us has been work	AIR
I. Group	Ambiant Av
Description of sample	Juda Wust from & Mn Mines
Luvique Identification of sample(if arry)	21/02/2024
, Date of sampling	Administrative office Bichawooli
The second property of	Clear & Surmy
Environmental conditions during sampling a transport	NA
7, Sampling Plan & Method used	

Report No. : MSKGL/ED/2023-24/004967

Sample No.: MSK6LJEDI2023-24/02/01917

RESULT

natysis f	Result of Ambient Air	T was	Wethod	Limit	Result
SI No.	Paramoter	LIOM		400 24 HR	BOL (DL 10.6
1	Animonia (NH3):	micro grain2	16 5182 (Part 25)	2 0/fR	0.24
2	Carbon Minisode (CO)	mg/m3	(S: 5162 (Part 16)_(O)	60 24 HR.	15.0
0	Natrogen Disside (NO2)	micro gm/mst	IS: 8182 (Part 5)_(0)	180 1 HFL	BOL(DL 201)
1	Depret (O3)	micro gminis	15; 5182 (Part 9)	100 24 HR.	143
-	Participate Matter (<10tim)	micro gm/m3	(S: 5182 (Part 23)_(O)		63
9	Particulate Matter (<2.5am)	Enthys mental	IS 5182 (PT-24) 2018 (O)	60.24 HR	
II .	Sulphur Dicoide (SO2)	micre gram3	(S. 5182 (Part 2)_(D)	80 24 FIFE	0.0

END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate 3, Pagladange Road, Koksta 700015 West Bengal

Tel.: #81 7044036120 Email udayartab@mitrask.com







Scan for Portal

ULR: TC-895024000003210F

DISC NO. MERCHENISMY

TESTING . MSPECTION

Name & Address of Customer:

Tata Steel Ltd (MGM), Jobe West

AMPo, - Joda, Dist. (Keonjilar, Oxlisha - 75803A India

TEST REPORT

Report No .:

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

Chemical

MSKPL/ED/2023-24/C13A9V

02/03/2024

MSKNB/ED/2023-24/02/07/3F8L

23/02/2024

23/02/2024 - 02/03/2024

Permanent Facility

3000156017/058, Date: 16/09/2023

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

Atmospheric Pollution
Ambient Air
NA.
21/02/2024
Bichakumti Basil Area Anganbaji Centra 1) Temperature: 18-27 deg C 2) Barometric Pressure: 709 mm of Hg 3) Rain fall
No & Cold Chain Maintained
(S:5182(P-11,12) & USEPA
Pratik Mantri
MSK/BBL/FIELD/FIDS-16

MSKPL/ED/2023-24/C13A5V Report No.:

Sample No.: MSKNB/ED/2023-24/02/0R3F8L

RESULT

hemical					-
SI No.	Parameter	UOM	Method	Limit	Rasult
4	Areenic as (As)	ng/m3	USEPA-IO 3.4, June	% (Annual)	BOL(DL:1.0)
2	Banzene	micro gm/m3	IS 6182 (Part 11)	5 (Annual)	BOL(DL 4.2)
	Benzo(s)Pyrene	Covern	(5 5162 (Part 12)	1 (Annual)	BOL(DL:0.5)
3	Lead (at Pb)	miero gro/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL-0.01)
	Manganese as Mn	micro gm/m/s	USEPA-IO 14: June	Not Specified	0.13
8	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	2D (Annual)	BOL(DL 5.0)

Opinion:

Limit as per CPCB notineation, how Dolin. 18th November 2009, for Ambient air quality

Statement of Conformity MA

EMD)

Reviewed by

2 bonnym. Dr. Devottery Harsey

fractional in charge Disguster**Authorized Eightics**

SOWNE Harry

(De Bann D: Direction Sannjan

Designation

Technooli in crueje

The free Report and the respectable description for the performance of following in the Property of the Performance of the Perf

Trigger) Cover (No. Floor), 740, A.J.C. Bose Road, Kohase 700016, What Bingel, with Tel: 31 33 4014000/23600007 Pag. 31 33 23650001 Emili 470(010)345, 200 Whitesaw West Feli 88 520 Head Office:



Address of Branch:

F.O. Bartal Di Keonihar Dresss 758 038



Scan ier Portal

Name & Address of Customer:

Tata Sinel Ltd.(MGM)_Joda West

AtPa. - Jode, Dist. - Keonfear, Oclobe - 758034 India Pla

TEST REPORT

Report No. ;

Date:

Sample No. :

Reference No. & Date :

MSKGUED/2023-24/00/966

27/02/2024

MSKGL/ED/2025/24/02/01016

3000186017/056, Oste - 15/09/2023

We hereby contry that the releasing sample Drawn by us has been employed with the following results.

to hereby corely that the following sample Drawn by us ness cannot some	AIR
Croup	Ambient Air.
Description of sample	Joda Wast Iron & No Mines
3. Unique (dontification of earapid(if any)	21/02/2024
t. Date of swinpling	Dictrolium Basii Area Areantian Centro
5. Place of sampling	Clear & Suntry
6. Environmental conditions during sampling & Transport	NA
7. Sampling Plan & Method used	

Report No.: MSKGL/ED/2023-24/004966

Sample No.: MSKGL/ED/2023-24/02/01016

RESULT

nalysis F	Result of Ambient Air		Method	Limit	Result
SI No.	Parameter	MON		400, 24 HR.	BOL (OL: 10.0
4	Assenores (NH3)	тіва дтіт3	(6.5182 (Part 25)	2 9HR.	0.32
2	Carbon Monorate (CO)	mg/m3	IB: 6182 (Part 10)_(O)	80 24 HR.	17.9
9	Nitrogen Okoode (NOZ)	migra grom3	IS: 5182 (PM15)_(O)	100 THR.	BDC(DC20.0
4	Oznosi (O3)	Emiring croim	(5.5182 (Part 9)	180 24 HR.	140
-	Particulate Melliar (<10cm)	micra gm/m3	is: 5182 (Part 23) (O)	50 24 HR	56
	Profesiate Metter (<2.5um)	miara gmim3	IS 6102 (PT-24) 2019 (D)	80 24 HR.	<6.0
0	Sendar Dicarde (SO2)	micro gm/m3	15: 5182 (Part 2)_(O)	BR Se Lac	340

-END -

Report Verified By

Head Office:

For Mitra S. K. Private Limited

DociNa: MSKIGENHIMI





Building No. F. 48, Udayari limiushigi Estato, Pasiadanga Ruad, Kolima 7,00019 West Bangai

Tel. +91 7044038120 Errai uninyunizh@mirast.com







Scientoc Portal

ULR: TC-695024000001633F

Name & Address of Customer:

Tata Steel Ltd (MGM)_Joda West

AtiPn - Jode Dat. Keenjaar Dates - 100034 trills

TEST REPORT

Report No. !

Date :

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date

Discipline:

MSKPL/E0/1023-24/311485

0.0/02/2024

M5KN8/ED/2023-24/01/DZP9F1

05/01/2094

05/01/2024 - 02/02/2004

Permanent Facility

3000158017/05# Date - 14/09/2023

Chemical

We haveby certify that the following sample Drawn by the line been analyzed until the indowing number

1. Group	Al'nosaharia Pollulian
2 Description of sample	Ambient Air
3. Unique Identification of symple(if any)	NA NA
4. Date of earnpiles	02/01/2024
5. Place of sampling	Time Office
Environmental conditions during compling & Transport	1) Tomporature 18-32 deg C 2) Barometric Pressure: 735 mm of His 31 Pain fail
7. Sampling Plan & Method used	No. & Cold. Costs. Maintained IS 5162(P-11, 12) & USEPA
I. Identification of the personner performing sampling by MSK.	Pranab Sethi Ohumbuolius Das, Lalin Nalk
I. Field Equipments Used	W\$NRBLFELDROS()

Report No. : WSHPLICE/2023-24/311465

Sample No.: MSKNB/ED/2023-24/01/DZP9FT

RESULT

SI No.	Parameter	DOM	Methad	Limit	Result
1	Arsenic as (As)	ng/m5	USEPAJO 3.4, June	6 (Annual)	BDL/DL 1.0
2	Benzene	micro gmim3	IS 5182 (Part 11)	5 (Annual)	BOLIDEAZ
3	Benzo(a)Pynose	ng/m5	IS 5182 (Part 12)	1 (Annuel)	
4	Load (as Pb)	mining grains.	1/SEPA-10 2-4, June	1 (2+) tours)	BDL(DC-0.5)
5	Manganese as Mn	micro gmint2	USSPA-IO S.4: Jame	Not Specified	0.02
6	Widel as NI	ng/m3	UEEPA-10 3-4 June	20 (Annual)	BDL(DC:5:0)

feromess. 2003; no rembigation spanity.

Statement of Combandly, 197

END .

Resident By

SQN-DA

Designation Tricheson in charges Authorized Signitory

Digrature

Designos

The reserved before only as the hearing second or first when is the personal or or Nation 5 & Physical Leaders of the Test Annual Annua

The immerse can't is benefated for district analysis (Self-Substitution) shall be received by this days as pre-CPCS pyrome & (Ar.) I come have the date of security and flagour the received processor of the received by the

County (Service Proof, 748 & AC, Born Road, Galerin - Roman, Install Inc. 87 20 (21920) Calleton Fax. 31 2522550000.

202 (Calleton Control Co Head Office:

Page 1 al 1

Address of Branch:

P.O. Bertill Di Keovyteir Officeil 750 835





Sean for Portal

Name & Address of Customer:

Falls Steel Ltd (MGM) Jodn West

AUPp. - Jode, Dist. - Kennijuw, Oderts: • 758034 Jaco Pho

TEST REPORT

Report No. -

Date

Sample No. :

Reference No. & Date :

M5KGL/ED/2023-24/004422

W02/2024

MBXGE/EDIZIUTS-2N/O VOOTSO

1900156017/056; Carr - 150000003

We hearby swarty man the following groups: Derive by us has been analyzed with the following weapon

1. Group 2. Description of sample	AIR
2. Unique (dentification of sample(if any)	Ambient Arr
L. Date of sampling	Joda West Inni & Mr. Mines
Place of sampling	02/01/2020
Con-venium consulors duling complete & Transport	Time Office
Sangering Plan & Material county samplesma & Transport	(Zim) à Zim)
Tandadoria cirina a material forma	TNA

Report No.: MSKGL/ED/2023-24/104432

Sample No.: MSKGL/E0/2023-24/01/00158

RESULT

SINO	Parameter	UOM	Methcal		-
1	Ammorae (MF3)	maro gmind		Limit	Result
7		state of thinks	IS 01/12 (Part 25)	400 24 HR.	13.3
	Carbon Monowidin (CCI)	Finish.	IS 0182 / Pair 40 (1884 (Newl), 2014)	≥ aHR.	
3	Nitrogen Dioxide (NO2)	Ening coint	© 5187 Part 6 2016 (Realt 2012) _(b);	-	0.02
	Cippine (City)	Eniors grains		80:24 HR	19,0
2	Physician Marise (<10cm)	micro uminto	U5.5182 (Part 9)	160 1 HP	BOL(DL.29.(
	Perosalba: framer (*Z.bum)	The second second	(\$ 5182 Part 21 2006 (Hunt 2012) (O)	79T 94 HR	221
7	Suprice Districte (802)	Environ nesses	8.5182 (PT-M) 2019 (O)	ED 24 HR.	112
-	(SUZ)	Entro grane	6 3102 Pm 2 2001 (Rim(LX)12) ((3)	80 24 HR	7.5

-END -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. As, Udayer Industrial Estate 1), Pagisdanga Road, Kolkata 70(0.15) West Banga

Tel. +91 7044036120 Ensel (dayartul) Emirror, com





TEST REPORT



GOONS: MISICIPENTINES

TEST ING WISPECTION

Span for Porter

ULR: TC-695024000001837

Name & Address of Customer:

Tilia Steel Lin (MGM) Joda Vinst

AliPo - Joda, Dist. - Keonjiler, Odishe - 756034 linile

Report No. :

Date :

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/N1147T

00/02/2024

MSKNB/ED/2023-24/01/U9G022

06/01/2014

08/01/2020 - 02/02/2024

Permanent Facility

3000156017/055, Date: 16/09/2023

Chamical .

We hereby certify that the following nample Drawn by us has been assessed with the following rare

1. Group	Almospharic Politicon
2. Description of sample	Ambient Air
3, Unique identification of sampre(flury)	NA NA
4. Date of amounting	03/01/2024
Place of sampling	Time Office Bichskundt
Environmental conditions during sampling & Transport	7) Temperative 14-30 deg C 2) Barometric Pressure: 234 mm of the 3) Balu to
7. Sampling Plan & Method used	55182(F-11,12) & USEPA
It identification of the personner performing sampling by IIISK Field Equipments Used	Pretik Kr Mahri Mollesh Hisiburu, Preneb Sethi, MSK/BBI /F(ELD)RDS-0

Report No.: NSKPUEDIZUZI-24/N11471

Sample No.: MSKNB/ED/2023-24/01/U5GD22

RESULT

Chemical						
S1 No.	Parameter	UOW	Method	Limit	Result	
1	Arsenic as (As)	rig/m3	USEPA IO 3.4 Auga	6 (Annual)	- BOLIDE LO	
2	Banzane	Emicro grains	(B.5162 (Part 11)	5 (Annual)	BDL(DL:43	
3	Benzo'a)Pyrensi	Em/gn	(\$ 5182 (Purt 12)	± (Annuil).	BDL(DL:0.5	
4	Lead (as Pb.)	micro grades 3	LISEPA IO 3.4. June	+ (Z+ Hours)		
5	Manganèse as Mri	tnern gm/m3	USEPA-IO 3.1 June	Not Specified	0.02	
6	Nickei as Ni	ing/m3	USEPA-IO 3 4, June	20 (Armusii)	0.78	
Indidica :	I will be be reined	W	The state of the s	48 (Almasi)	5.5	

Limit as any CPCR need culton, Mayo Delife. 18th Newtonber 2005, for Amoretical quality.

Statement of Conformity

END -

Comment by

ligneuro:

Manunda Dr. Devoltan Banaraw

Deetgrookin

Timitesoid to sharpin

Authorized Signatory

Strane

Designation

hear to charge

The results related only to the introductionals and

The Two Report shall visit the representation of the Control of th

The community of the co

Square Corner (Str Coor), 740 A.J.C. New York (Cooks) Victors visit manyal man Yel. St 1740 (4001) 2240007 Feb. St 332763009 proof engineeral con Websile Systematics. See Head Office:

Address of Branch :

P.O. Barba Di Kaonillar Orissa 158 035





Sean for Portal

Name & Address of Customer:

Titte Steel Ltd (MSM) Judy West

AtPic Jubite, Det. - Keoujher, Odesko - 758034 Incia Pla

TEST REPORT

Report No.:

Date :

Sample No. :

Reference No. & Date :

M3KGL/ED/2023-24/06/435

10/02/20X4

MSKGL/ED/2023-WWO VORESE

19002156017/068, Daje - 15/09/2023

We havely carrily that the tollowing sample Drawn by us bus been analyzed with the following woulds

1, Greup	AIR
2. Description of sample	Anthiert Air
3. Unique loanimentum of servicini any)	Jects West Iron & Mr. Minus
4. Dain of sampling	C9/01/2024
5, Place of aucepting	Time Office Birton and
a. Environmental conditions during numbers & Transport	Clear & Surray
7. Saholing Flan X. Bathrel were	TOC .

Report No.: MSKGL/ED/2020-24/004435

Sample No. : MSKGL/ED/2/123-24/01/00238

RESULT

BIND	Parameter	LIDM.	Mailton	Limit	Result
1	Airmania (NHG)	cinione gradina	18 3182 (Part 25)	400 24 HBL	14.9
2	Cartra Manaside (CO)	mgmt	(\$ 8182 Fest 19 1999 (Resett 2014)	2 8410.	0.56
3	Nitrogen Dioxide (NO2)	Colong creater	(S.5767 Part S006 (ResF2(872) (D)	90.24 HF:	
4.	Ozone (Q3)	Enlyng craim.	15.5187 (Part 9)	180 1 HR	18.5
4	Farmendo Adatter (<10cm)	mion gra/n3	IS 3762 Part 21:2000 (RissE 2012) (Q)	100 24 HR	SDL(DL-20 0
W.	Francisco Namer (<2.1009)	Billions croim	IS 5182 (PT-24),2019 (D)	60 24 HR	252
7	Sulphur Dhodde (802)	divide gluma.	15 0 102 : Part 2 :2001 (Front 2012) (O)	80 24 HR	9.7

- BIR -

Report Verified By



For Mitra S. K. Private Limited

- Tan

Docks: MSIGSPMANY

LEBTING & REPESTION



Building No. P. 45, Udayan Industrial Estate. 3. Pagladanga Road, Kolkala 700015

West Bengar

Tel. +91 7044038120

Dress interpolitiffentiress,com-





Name for Portal

ULR: 10-695024000001841=

Name & Address of Customer:

Tata Stee Lid.(MGM)_Joda Went

AliPe - Inde Dist. Keenjiner Ocishe -750034 Inter-

TEST REPORT

Report No.

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED//023-24/T1147U

05/02/2024

MSKNEVED/2023-24/01/PM13CD

08/01/2024

06/01/2024 - 02/02/2034

Permanent Family

3000158017/055, Date - 16/09/2003

Chamicsi

Wir hersiby certify that the following sample Drawn by the has been analyzed with the following

1. Group	Almoushage Pulletier
Z. Description of sample	Ambient Air
3. Unique Idiaminication of sample(If any)	NA NA
. Dain of sampling	05/01/202A
L Place of europiling	Near Gangelouda Pli
Environmental conditions during sampling & Transport	1) Temperature 13-29 dec C 2) Barometric Pressure: 233 mm of He 3) Barone for
Sampling Plan & Method used	No & Colo Chair Mandainnid IS 5182(F-11,12) & USEPA
. Identification of the purponner performing secupting by MSK	Lain Neik
Field Equipments Used	MSI/(BBL/FIELD/RDS-4

Report No.: #SIPLIED/2023-24/11147U

Sample No.: MSKNB/ED/2023-24/01/PM13CII

RESULT

Phomical						
SI No.	Parameter	LIOM	Method	Limit	Rosult	
1	Atsenic as (As)	ng/m3	LISEPA ID 3.4, June	€ (Annual)	BDL(DL:1/0)	
2	Вепзале	micro gmini3	IS 5182 (Part 11)	5 (Annual)	BDL(DL=2	
3	Sienzo(a)Pyrene	ng/m3	IS-6182 (Part 12)	T (Annual)	MOLIDICO 5	
4	Lead (in Pb.)	micro; gimini S	USBPA-10 2.4) June	1 CVF tages i	0.02	
5	Мандиневе вз Мп	micro grain3	USEPA-IO 8.4 June	Not Specified	0,14	
6 Indicates	Mickel as M	ng/m3	USEPA-IO 3 4, June	20 (Annual)	BDL(EX. 5.0)	

Livet as par CPCS notification. New Darki, Attiti Navonato, 2009, for remaining quality

Statement of Conformity

END --

RESIDENCE BY

Digrature Naria

a) Banunay Dr. Devotter Spring

Designation

Technool is charge

Asthonous Signatory

More

Designation

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Street Certs (Str Fais), 146, N. J.O. Base Ken, Kohan - TKKIN West Bergin Fell. Tel. 31.33-40 (3207) 2263037 Fell 81.31-2250308

Error Info@estron unt frecher menomination

Address of Branch :

F.O. Barth Di Keonjinar Oresse 756 035





Sean for Formal

Name & Address of Customer:

Tista Steel (LELIMOM), JAAIn Winst

AsPie, Jode, Dell - Neuman, October - 758004 India Pr.

TEST REPORT

Report No.

Date -

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/004445

0/08/2024

MSKQL/ED/2023-24/01/00018

200016/3117/056, Date: 16/09/2021

10's benefity smally that was publishing sangale Distant by us has been enalyzed with the following resolu-

1. Group	AR	
2. Denoration of sample	Amblen(Air	_
i. I nigne identification of excepted any j i. Colo of sampline	Juda West Iron # Mn. Minas:	_
Place of sampling	00/01/2024	
Environmental conditions during conditing & Transport	Nicor Garquegato Photogram	
Sampling Plan & Marked used	Glear is Surray	
resouring runt's marked used	NA .	

Report No.: MSKGL/ED/2023-24/004446

Sample No.: MSKGUED/2023-24/01/00/310

RESULT

SI No.	Distribution UDW Technology			-	
,		DOS	#Minod	Limit	Result
-	- Ammonis (NH3)	Downs coasts	55 5162 (Part.25)	400 24 165	142
2	Carroon Moroowde (CD)	Impim3	ISS182 : Part 10 : 1999 (Rept. 2014)	2 IHR	0.81
-2	Nitrogen Dicode (NDF)	Micro grains	[HDIR] (0) 8:5/87 PHI 6:2005 (RAH5 2017) (0)		-
4	Ozone (O3)	Micro garying		60 24 HR	24.1
3	Payaceinte Matter (<101an)	The second secon	(\$ 1182 (Part 9)	100 t HR.	BOX (DL 20,0
-0		mion grows	IS 5182 Part 23: 006 (Result 2012) (01	100 9a HR:	199
-	FERRILLIA Melity (<2.5um)	Enimp resin	IS 51R2 (PT 24) 2019 (0)	60-24 HR	71
-	Sulphur Diswith (SO2)	Benning peaks	IS 5162 Part 2 2015 (Real 2012) (O)	80 24 HR	72

END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Sharps Course (Str Ferry, 16th, A.J.C. Steam Street Adjusts - 700016 West Sangel Inch. Tel: Str. 2014;00001255.compf Peo. 8120 2016;0000 Incut 1 10 Control of Markets alone on Page 2016.

Pege 1 of 1

Address of Laboratory :

Building No. 15 46, Danyan Indulinial Estate, 3. Pagisdanga Rowl, Kolkaia 700015. West Beign

Tel. +97 7044036120 Emmi udayanlata@miliesa.com







Solin for Portal

ULR: TC-6950240000018390

Sou No. : MSNOEN 1802

Name & Address of Customer.

Tala Sine Ltd.(MGM)_Juda West

AMPn - Joda Chil - Keenjhar, Odisha - 750034 India

TEST REPORT

Report No. :

Date:

Sample No.

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/311473

03/02/2024

MSKNE/ED/2023-24/01/171400

08/01/2024

08/01/2024 - 02/02/0024

Primaryoni Facility

3000156017/056, Date - 16/09/2022

Chemical

We haveby certify that the following sample Drawn by us have been enagoned with the following revent

1. Group	Almospharie Pollution
Description of sample	
3. Unique Iden()fication of sample(If any)	Ambient Air
4. Date of sampling	NA .
5. Flucu of nampiles	05/01/2024
S. Environmental conditions during sampling & Franceof	Near D-Quarry Screen Plac! 1) Temperatum: 13-29 dag C 2: Enforcetric Pressure: 733 mm of Hg J) Rain he
. Sampling Plun & Method used	Line by Child Manipage
. Menufication of the personnel performing execution by Mess	IS:5182(P-11,12) & USEPA
2. Field Equipments Used	MSA/SULFELDARDS-8

Report No. : MSKPL/EDIZUZ3-24/311473

Sample No.: M5KNB/ED/2023-24/01/51140D

RESULT

SI No.	Parameter	UQM	Mathod	Limit	1
1	Arsienic as (As)	nam3	DISEPA-IO 3.4, June		Result
2	Benzene	En/mg ms/m3	IS 8182 (Pad 11)	5 (Annual)	BDL(DL1.0)
7	Benzo(a)Pyrene	npim3		5 (Annua)	BOL(DL 4.2)
4	Lead (as Pb)	Emiros croims	15.5182 (Part 12)	I (Annual)	BOLIDE:0.5
5	Menganese as Mri	micro gm/m3	USEPA IO 5 4 Jane	(54 Horis)	0.01
*	Nickei as Ni		USEPA ID 3.4. June	жи брестей	0.09
plning		ag/m3	USEPARO 3.4. June	30 (Annual)	BCL(DL:5.0)

Limit at our CPOS natification, New Oaths, tale November 2005; for empencarrousity

Statement of Conformity

END.

Mane

Or. Occupant Barwaye

Dangration Triconical instrume Authorized Signatory

Laure marge

The results controlling the service between the control or the control or the control of the S.A. Styles Lander.
The Test Report shall not be recorded as an expension of the service of the Service of the Test Report. Particular services and the control of the Service of the Test Report. Particular services and the control of the Service of the Test Report.

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Secure Centre (65: Teor) / III. A.J.C. Rose Road, Social 1702. Week lines - Teor 11 32 40: 13000 / 23100007 Par. 91:33:2580008 green integrations, and topical man

Page 1 nt 1

Address of Branch :

P.O. Baral DI Kunniner Orissa 758 035





Som for Partie.

Name & Address of Customer :

Tata Steel Ltd.(MGAI) Josla West

AVPo, - Joda Dest. - Kesrisher, Odesha - 758034 Imila Pin

TEST REPORT

Reference No. & Date ;

Report No. :

Sample No. 1

MSKGL/ED/2023-24/004453

10/02/2024

11/10/21/202

MSKGL/ED/2023-24/01/00317

.1000156077/050, Date - 15/050/053

We burely certify that the following sample Drawn by us has been analyzed with the following results

1. Group	AIR
2. Dissoription of sample	Ambiert Air
3. Unique Identificacion of pempiniil voy:	Joda Weel litter & Ner. Mives
4 Date of sampling	25/01/2004
5. Prince of sampling	Kent DiGunty Some Butter
 Environmental contribute during complete A Transport 	Clear & Survey
7. Sampling Plan & Marrow Ironit	TIA .

Report No.: MSKGL/ED/2023-24/009453

Sample No. : MSKGL/ED/2023-24/01/00317

RESULT

Analysis Result of Ambient Air							
Si No.	Panemeter	NOW	Minted	Lieut	Result		
1	Ammonis (NHO)	micro gmines	(5.5182 (Part 25)	400-24 HR	-		
2	Carbon Monorade (GO)	myons	(NDR) (0)	2 9HR.	0.75		
3	Ntrogen Dioxide (NC2)	mana gravina	(\$5152 : Part 6 : 2000 (Final (2012) (O)	20 SW HE2	25,0		
4	Carnin (CS)	micro gimma	18 5182 (Part II)	195 1 HFL	90L/DL:36 h		
0	Pathouste Mutter (<10um)	Equipment (man)	(S 5182: Parl 23 2006 (Road) 30(2) (O)	100.24 HR	-		
10	Paracusas Massa (<2,5um)	micro gm/m5	IS 5192 (FT-24),2018 (C)	90 24 HR	73		
7	Supra District (602)	mienissinkies	(\$502 Part 200 (Red 302) (D)	60:24 HR.	7.3		

- END -

Report Varified By

Head Office



For Mitra S. K. Private Limited

Address of Laboratory:

Bulding No. 9- 46, L'dayan Industrial Estatu. 3 Pagladenge Rand Kolkele 700010 West Sengal Tel.: +91 7044035120 Emist independable in Ulink.com







DIE NI MSKIDENHOID

TESTING + WINECTION

Scan for Portal

ULR: TC-8950240000091640F

Name & Address of Customer :

Teta Steel Ltd [MGM]_Joda West

АУРо - Эвек, Вех. - Кооприи, Осили - Тавизи пиди

TEST REPORT

Report No. :

Date | Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/51147E

03/02/2024

M5KN8/ED/2023-24/01/5913EU

08/01/2024

08/01/2024 - 02/02/2024

Permanent Facility

3000155017/056, Dain - 16/09/2021

Chemical.

We hereby certify that the following semole Drawn by us this been analyzed with the following

I. Group	Attrouppesic Politilion
2. Description of sample	Ambiere Air
J. Unique Identification of sample(II any)	NA NA
L. Date of sampling	05/01/2024
I. Place of empring	Near D-Quarry Serting Yard
C. Environmental conditions ourng sampling & Transport.	1) Tampo atom 13-29 and C 2) Barametric Pleasure: 733 mm at No 3) Rain to
Sampling Plan & Melhot used	S.5182F-11.12) s usePA
to be under the personnel performing sampling by MSK	Lain Naik
R. Field Equipments Used	MSK/BBL/FIELD/RDS-6

Report No.: MSKPL/ED/2023-24/51147E

Sample No.: MSKNB/ED/2023-24/01/5913EU

RESULT

Chomical						
SI No.	Farancier.	UGM	Method	Limit	Result	
1	Arsenis as (As)	nem#	USEPAJO 3 a June	6 (Amnum)	PDL(DL.1.0)	
2	Herzone	micro grains	IS 5182 (Pari 11)	5 (Annual)	BOUDL'4 2	
3	Benzo(a)Pyrelie	ng/mi3	(5 6182 (Part 12)	1 (Annual)	BDL(DL(0.5)	
4	Lead (as Pb.)	mitter gusing	USEPA1034 June	5 (24 Hours)	8.07	
5	Manganssa as Ma	micro graim3	USEPALIO 3.4 Anno	Not Specified	0.11	
6.	Nickel as N	ng/m3	USEPAID 3 4 June	20 (Armual)	BOL(DL 5.0)	

Opinion:

I limit as per CPCSI multipactor. New Dolls. 1851 November 2005, for removemen quality.

Statement of Conformity MA

END

Heroman By

Stroman Maria

Municipalion Tir Davottary Barrage

Designation

Terrespi U-chage

Autorized Signatory

Borenze

The reside white only to the temps lemied

This Tail Report should be supreshown except to but only use the personnel of Nice 2.8, Feynon Library.

The many set part of servicing the character state (see Secretary) that was provided by the secretary of the

The manufacture of the Test Dispart

The manufac

Pegs 1 of 1

Address of Branch .

P.O. Barnil Of Knoriffin/ Orient 758 606

Name & Address of Customer:

Al/Po. - Joda, Dist. - Keorghar, Dolshii - 758034 India Pir-

Title Steel Let (MCAt)_lock Word





Scan for Finnal

TEST REPORT

Report No. :

MSKGL/ED/2023-24/00#454

Date:

11/08/2024

Sample Ne. :

M8KGL/EDV2V23-24/81/39318

Reference No. & Date :

3000350017/056, Oaw - 15/09/2023.

We hereby cavify that the following sample Drawn by us has been analyzed with the following result-

1. Group	AF
2. Description of sample	Ambient Air
Unique Asenettuation of sample(d any)	Jodn West lace & Mr. Mines
4. Data of amorphing	05/01/0084
5. Place of compleys	Near D.Cours Serging Yard JWMM4
f. Eivimmandul conditions furing sampling & Transport	Cress & Stormy
7. Sempling Plan & Mulfical used	NA .

Report No.: VSKGL/ED/2023-29/084454

Sample No. : MSKGL/ED/2023-24/01/00318

RESULT

Analysis Result of Amhlent Air							
SLUL.	Cocamular	HOM	Mechoa	Limit	Result		
-1	America (N-L1)	(micro: gm/m3	19 b 182 (Part 2s)	400 70 HR.	18.6		
2	Carbon Morecoln (CO)	mahid	19.5 (82 (Mar 40 1799) (Roaft 2014)	1 840	0.44		
3	Mirrogen Dixxide (NO1)	micro grafest	15 5 HZ : Part 5:2005 (Real 2012) 101	80 24 HR.	23.6		
- 1	Ozoni (O3)	micro gm/m3	IS 5182 (Pad 9)	140 1 HE.	BDU/DU:20.41		
1	Particulain Matter (+ 10um)	man ymind	65-5182; Part 25-2009 (Moort, 2012) JOy	100 34 HR.	184		
6	Particulate Matter (<2.5um)	Serving ursim	48,5182 (PT-24),2019 (/0)	60:24 HRL	67		
7	Sulpher Dissess (SO2)	mens gm/mi7	18 5182 Phr 2 2001 (Rea(12012) (D)	80 24 HFL	8.3		

END -

Report Verified By

Head Office:



For Mitra 5. K. Private Limited

Address of Laboratory :

Building No. 9 - 46, Udayan industrial Estima 3, Pagadanga Road, Kokara 7000 to Want Bangai Tel. +91 7044036120

Ernall: udaymiab@milrask.com







Dec No. MSKVOEW1967

Scor for Portal

MSKPL/ED/2023-24/811478

ULA: TC-8950240000001842F

Name & Address of Customer:

Talle Steel Ltd.(MGM) Joda West

AVP's. - Joseph Tries. - Necesyman, Codema - 7580034 1988

TEST REPORT

Report No. :

DMe: 03/02/2024

M5KN9/ED/2023-24/01/201301 Sample No. : 08/01/2024

Date of receipt of sample: 08/01/2024 - 02/02/2024

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

3000156017/086, Dale - 18/09/2023

Chemical

Permanent Facility

We nevery persty that the tollowing specific Drawn by us not been analyzed with the following reputs.

1. Group	Almosphuric Polittion
2. Description of sample	Amoiert Air
Unique (dentification of sample(if any)	NA.
4. Date of sampling	05/01/2024
5. Piece of samping	Nitiar H- Clustry Rest Sheller
6. Environmental contillions during sampling & Transport	1) Temperature :13:05 dray C.2; Barometric Pressure, 733 mm of Fig.3) Rain fail No.5 Cold Citain Marsia bod
T. Sumpling Plan & Method used	(5/1/82(P-11,12) & USEPA
9. Identification of the personnel performing sampling by MSK	Laiiri Malk
Field Equipments Used	MSK/BBL/FIELD/RDS-2

Report No.: MSKPL/ED/2023-24/B11478 Sample No.: MSKNB/ED/2023-24/01/00/13/01

RESULT

Chemical					
Bi No.	Parameter	UOM	Welhod	Limit	Result
1	Arsenio as (As)	ng/m3	USEPA-IO 14 June	is (Annual)	80L(0L:1.0)
2	Benzene	Emiring artim	18 5182 (Part (1)	5 (Arenial)	BDL(DL-4.2)
3	Benzola)Pyrene	ng/m3	(8 5/82 (Part 12)	1 (Armial)	BOLIDLUSI
	Land (on Ph.)	mieto gmunii)	USEPA 40 3.4; June	1 (24 Hours)	80L(DL:0.01)
5	Mongariese as Mn	тисто утита	UBEFA-ID 3.4: June	Not Specified	0.06
6	Mokal as M.	my/m3	MSEPA4C 3/4, June	Zb (Annunt)	BDL(DL:50)

Opinion :

Limit as year CPCB multicerum, New Gently 18th Representate 2005, for Ambiens or quality

Statement of Conformity MA

END.

Manager By

Eliginatur

Dr. Davother Dan

Description

Tuchysical in charge

Authorized Signatory

Signiture

Mane

Geografion

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The Test Report and pick his reproduced invarion in (1), entires the permission of lines S.X. Primar Limited.

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The form that part of seriably for Mexicopyring scalars (Art I particles complete Foot), Seeing Wester, Seport 1000) and its reserved for 15 days from the case of the Tee Seport.

Address of Branch :

P.D. Bartil DI Norminer Onicon /58 035





Scan for Portal

Name & Address of Customer :

Tata Steel Lid (NRGM) Joda Wess

AbPo Joda, Dist. - Neorghar, Column - 758834 India Phi

TEST REPORT

Reference No. & Date :

Report No.:

Sample No.:

Date:

MSKGL/ED/2023-24/004403

10/08/2024

MSKGLED/2023-24/01/00/02/0

000156017/098, Date / 15/09/00/3

we hereby certify that the following sample Drawn by as has been analyse

1. Group	AFL
2. Dancription of amounts	Ambient Air
3. Unique (gastification of completi) pays	Juda West Iron & Mr. Minas
4. Date of sampling	OSATS/SEQ4
5. Place of sampling	North Hadriany David Straffer Hyperia
s Environmental conflictors during symplem & Terrispect	Clear & Visits
7. Simpling Plan & Rischwillmans	NA NA

Report No.: MSKGL/ED/2023-24/004460

Sample No. ; MSKGUE0/2023-24/01/00320

RESULT

malysis Result of Ambient Air					
SHIR	Pageonter	LION:	Mulliper	Limit	
4	Ammonia (MH3)	miero gravici.	≅ \$182 (Mart 25)	400 34 HRL	Result
2	Carton Montavelli (CxC)	ling/mil	18 5182 For 10 : 1888 (Cont. 2016)	2 and	10.0
3	Nibrigen Dioxida (hG2)	micu goina	(MDR) (D) 15 5182: Part 8 2006 (Road 2012) (D)	60 34 HR	21.0
4	Otto-W-(00)	micro grivis	15 5182 (Farl 9)	180 1 100	BD1/01:30.0
- 1	Paroculate Maile (<10um)	micro grama	\$5182 Part 23:2016 (Rent), 701(p. (D)	300 M ARC	125
7	Furnish Mater (<2,5um) Sudges Dissur (SO2)	micro grama	15 5182 (FT-24),2018 (O)	60.24 HR.	86
	and the same	I mirrol florattes	IS 3165 Part 2001 (Real 2015) 101	-80 24 HR.	9.2

END

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P-45; Lideyan Industrial Estate 3, Pagladanga Road, Kelhala 700015 West Bengel Tel: +91 7044038120

Email ud syntinb@milrask.com







Doc No. MEKAGENTEROS

Scan for Portal

ULR: TC-695024000001638F

Name & Address of Customer.

Teta Steel Lid (MGM)_Joda West

ALFo, Jose, Dan. - Amorthan Odlana - 7580394 Indig

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUED/2023-24/11/1/0

09/02/9024

MSKNB/ED/2022-24/01/0E:3FY

08/01/2024

08/01/2024 - 02/02/2024

Personni Fediliy

3000156017/056, Oate - 16/09/2021

Chemical

We havely carely that the following sample Dream by us has been analyzed with me following regular.

1. Group	Almoseneric Pollution
2. Description of sample	Ambient As
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	05/01/2024
5. Place of sampling	Railwey Siding
8. Environmental proditions guring sampling & franchist.	1) Temperature - 3-20 day C 2, Berometric Pressure: 733 mm of Hg J) Rain fa No 5 Cold Chain Mastished
7. Sampling Plan & Metrod used	15:5181(P-11,121 & USSP)
t. learnification of the personnel performing sampling by MSK	Lakin Nati
N. Field Equipments Used	MSK/BBL/MELDRIDS-3

Report No. : MSVCFL/ED/2023-24/11470 Sample No.: MSKNB/ED/2023-24/01/0E13F7

RESULT

Shemipal					
51 No.	Parameter	UOM	Method	Limit	Result
1	Areanio as (As)	Errhan	USEPA-IO 3.4, June	(Annual)	BDL(DL:1.0)
2	Barzere	intient gm/r/3	(S.5182 (Part 11)	6 (Annual)	BOL(DL 4.7)
3	Benzo(a)Pyrana	Emige	IS 5182 (Part 12)	1 (Annual)	BOL(DL 0.5)
.4	Lead (as Pb.)	Enking anim	USEPA 40 S.F. June	1 (24 Hours)	0,01
5	Manganese as Mn	micro grown3	LISEPALIO \$ # June	Not Spedified	0.08
B .	Nickel as NI	/ng/m3	USEPA-IO 3.4, June	20 (Annual)	92

Opinion:

Limit as per CPCB colfication, New Cellii, 18th Nevember 2000, for omisses all outsity

Statement of Conformity

END

Provided by

Hammel (So Dr. Devotore Itemaper

Contynation Technical in charges Authorized Signatory

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(feat Office. CREEK SENDITRICATIONS OF WILLIAM WAS PRIVATE FOR

Address of Branch :

P.O. Bartal Di Kennibur Orissa 758 035

Name & Address of Customer :

Time Steel LALYMGMs Jode West





Sens for Portal

TEST REPORT

Reference No. & Date

Report No. :

Sample No. :

WRKCDED/2033-54/001113-

Date:

10/02/2024

At Pr. - Joda, Dist. - Keonjihar, Odietia - 756064 India Plin

MSKGL/ED/2023-24/01/00316

5000 (66017/066), Unio - 16/08/2023

He handly centry that the following somele Drawn by is see amin analyzed with the following results:

1. Group	AIR
2. Description or semple	9506.01.2024
Unique Moutification of nample(If arey)	Joda West from & Mr. Miren
4. Date of sampling	9601/2024
5. Pitcy of sampling	New Rathery Saling JWMM
A. Environmental conditions during sampling & Transport	Cross & Signity
T, Sampling Plan & Method tund	NA .

Report No.: WSKGL/ED/2023-24/004449

Sample No.: MSKGLED/2023-24/01/00316

RESULT

nalysis Result of Ambient Air						
SF No.	Paratimidas	904	Matrical	Limit	Result	
1	Amuponia (NH3)	mentigmona.	IS 9162 (Part 25)	400 34 HR	18.5	
2	Carbon Monoxida (CO)	mym3	(NDIS) (NDIS)	2 6HR	0.34	
2	Hüregen Dicome (NO2)	Inion grand.	(\$ 5182 Part 6:2006 (Resift 2012) (D)	20 24 HR	25.6	
4	Omce (CD)	men grand	IS-5182 (Part 9)	180 1 HR.	BDL(DL:20.0	
4	Pint)culute Militar (<10cm)	micro gmina	IB 5182 Part 23:2108 (Rest), 2012) (D)	100 24 HR.	391	
G	Particulary Meter (12.5um)	Trican graffin3:	US 5182 (PT-24) 2010 (G)	50 24 HR	117	
7-	Dispess Decode (SO2)	i masa gmino.	15 5162: Part 2 2001 (Revil.2012) (0)	80 24 HR	8.2	

-END-

Report Verified By



For Mitra S. K. Private Limited

Address of Laboratory :

Bulding No. P. 4il. Udeyan Industrial Estate
5. Pagladenga Ross. Rukala 700019
West Gungal
Tel : 491 7044036120
Emer udayanah@minash.com







OVE NOT MERCON WINSON

Stan for Portal

ULR: TC-595024000001647F

Name & Address of Customer:

Tata Small Ltd (MGRW), Joda West

AUFo. - Jose, Drai. - Neonjihar. Onlana - 758034 1009

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(n) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPUED/2023-240(11479

08/02/2024

MSKNE/ED/2023-24/01/XR43EV

09/01/2024

09/01/2024 - 02/02/2024

Permanent Feeling

3000156017/0N6, Date - 16/09/2021

Chumical

We havely carrily that the following sample Drawn by us her been analyzed with the substance require.

L. Group.	Atmospherio Pollution
2. Description of sample	Ambient Air
Unique Identification of cample(if em)	NA
4. Dain of sampling	DE/01/2024
5. Place of sempling	Near H- Quarry Rest Sheller
e, Environmental conditions during sampling & Transport	1), Tomporature: 15-25 dag C 2) Berometric Pressure: 735 mm of Pg 3) Rain fel No 5 Cold Chain Menternel
7. Sampling Plan & Method used	15.5162(P.1), (2) & USEPA
s literation of the personnel performing sampling by MSK	Latin Naik Dhembrusha Das
D. Fulld Equipments Used	MSWBBLFIELDRDS.2

Report No.: MSKPL/ED/2023-24/X114/9

Sample No.: MSKNB/ED/2023-24/01/XR10EY

RESULT

Chemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPAJO 3 4, Junii	B (Armust)	BOL(0L10)
2	Senzene	micro gm/m3	IS 5182 (Part 11)	5 (Armual)	BOL(BL 4.2)
3	Banzola)Pyrene	tigan3	IS 5162 (Part 12)	1 (Annial)	BDL(DL:0.5)
4	Lead Ins Ph.)	miem genter9	USERA 10 3.4, June	1 (24 Hours)	0.02
5	Manganesa as Mn	micro gm/m3	USEPA-IO 3.4 Aune	Not Specified	0.30
В	Nickeli sig Ni	ng/m3	USSPA-IO 3.4 Ame	20 (Annual)	6.6

Quinlen #

Limit as our CPCB notification, New Davis, 19th Housember 2006, for renuture as quarty

Statement of Conformity NA

--- END ---

Reverse by:

Sgn#imi

Dr. Dovotan Banapa

Designation Tax

Tachnool in sharps

Authorized Signifory

Strones

(Vente)

Designation

Dr. Stagetorion Adventura

This research would used to the percent forward.

This Task Report (Not visit by vegetimenal around to 6.4, will one the permission) of Marie \$ 10, 70 years \$20 years.

The resurred part (if remplays to coverage amongs (litter-payshalls nergor's) Frod Wood) that sensured by 15 days from the days of cause of the Task Report. Personal samples is shall be retained 2 may be now use of the Task Report.

The transition of an expectation observed excepts (Sol, Toky & Leave Vento) and be recovered to the control of CFCS and transition of the transition of the Control of the

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Page 1 of I

Address of Branch :

P.O. Barlet Di Keorinar Onssa 158 036





Scan for Carnet

Name & Address of Customer:

Tinta Stool Ltd.(MGM) Jeste West

Al/Po, - Jode, Dist. - Karrenar, Didente - 758004 Incha Pin

TEST REPORT

Reference No. & Date :

Report No. :

MSKCL/ED/2023-24/004447

10/02/2024

Sample No. :

MSKGL/EU/2023-24/01/00925

3000156017/056, Date - 15/08/2003

We havely certify that the following sample Drawn by as has been analyzed with the following records:

1, Group	Air
2. Description of surges	Arthiori Air
7. Unique Identification of exemple III any.	The state of the s
4 Date of samuling	Jode West licer & Mr. Mines
II. Place of sampling	08001(2)54
b Environmental caracteris during campling & Trimsport	Numr H-Chintry Start Scotter - MHMM
7. Sampling Plan & Marrow (seed	Clour & Gurray
17 4 million & Laur or weathers down	NOV.

Report No.: NSKGL/ED/2023-24/00447

Sample No.: MSKGUED/2023-24/01/00325

RESULT

SI No.	Paramitta	LIONE	Method	Limit	Result
1	Anmania (NH3)	mium greend	18 5182 (Pari 25)	400 24 HR	15.8
2	Circon Monoode (CO)	molma	(NOR) (0)	2 848	0.19
8	Mtrogan Diagrate (NG2)	mongrens.	(5) 187 Part 6 (2005 (Reaf) 2012) (0)	90:24 HP.	34.5
4	Cienna (Ci3)	miani gmini3	ts 5182 (Part 9)	150 1 HR	BDL(DL:20,0)
3	Particulate Mater (s10em)	mers gmin3	15 5182: Part 23 2000 (Result 2012) (O)	100 24 HIV.	173
0	Pericumo Madei (<2.5um)	Environment	IS 5182 (PT-24),2019 (G)	80.24 HRL	94
7	Surpline Descide (SO2)	Divine point	15.5162 Phat 2 2003 (Revolt 2012), v(D)	80 24 HR	1.8

- END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory :

Building for P. 46, Udayan Innuisinal Estate. 3, Pagladange Reed Holiste 700015. West Bangal Tel: +91 /044036120 Errail udayantsb@mitnisk.com







Due No ARRIGGEMENT

TESTIAN - ASPECTION

Scien for Portal

ULR: TC-695024000001646F

Name & Address of Gustomer :

Tata Steel Ltd.(MGM)_/oda West

Al/Po. - Jode: Diel. - Koonner, Goleha - 756034 (1012)

TEST REPORT

Roport No.:

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/01 (47)+

03/02/2024

MSKNB/ED/2023-04/01/LP13D7.

69/01/2024

09/01/2024 - 02/02/7024 Persurent Facility

3000158017/056 Date - 15/09/2021

Chemical

We normby certify that the following sumple Drawn by as her been analysis that the following resource

l. Group	Atmospowie Poliction
L. Description of sample	Ambiere Ar
Chilque reantification of semple if any	NA NA
. Date of sampling.	06/01/2024
Place of sampling	Nepr Garaniguda Pit
Environmental cooditions during sampling & Transport	1) Temperature 12-25 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain (a)
Sampling Plan & Nothed used	No & Cold Chain Maintained IS-5182;P-11,12) & USERA
Attendication of the personnel performing sampling by MSK	Latin Maik Dhambredha Das-
, Field Equipments Used	MSICHBL/FIELD/RDS-4

Report No. : MSKPL/ED/2023/24/91147H

Sample No.: MSKNB/ED/2023-24/01/LF13D7

RESULT

Chemical							
a) No	Parameter	UOW	Method	Limit	Rosult		
4	Arsenic as (As)	.0g/m3	USEPAJO 1.4, June	6 (Annual)	BDUDL 1.0		
2	Benzene	micro gravas	(5.5182 (Part 11)	& (Annual)	BDUDLAS		
3	Bertizo(a)Pyrene	hg/m3	IS 6182 (Pprt 12)	1 (Annual)	BOL(DL 0.5)		
4	Lead (as Ptt)	intero-gmmel	LISEPA (O 1.4. June	(24 Hours)			
4	Manganese es éte	micro gmm3	DBEPA IO 3 4: June	Not Specified	0.01		
8	Nicketas Ni	cg/m2	DOEPA IO 3 & June	20 (Annual)	9.11 SDL(DL:5.0)		

Opinion:

limit as new CRCB cellifugibles, have Durin, 18th November 2009, for contains an quality

Statement of Conformity

END

THE WHAT BY

Simmon Market.

Or Devettion Base

Distriction Terrescal to crawps Authorized Signatory

Signetine

December

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F and Co as (SN Plonx 746, A J.C. Som Head, Corem -7030H, Vanish at 1-25-To 1-91-30 4046400 / 225000H Fm -9133 22682008 Head Office

Effect of Price advances poor SWelman William (1987) and other

Page I of I

Address of Branch :

P.O. Barbii DI Koonjoer Oressa 754 035





Since the Property

Name & Address of Customer:

Total Street Ltd. (MGM)_Juga Weni

AVPo rodu, Dist, - Keonjitan, Odeska - 758034 India Pln

TEST REPORT

Reference No. & Date :

Report No. :

Date:

M3KGL/E0/2022-24/804452

10/02/2024

Sample No. :

M5KGL/ED/2023-24/01/00/324

3000196017/056; Oate - 15/09/2023

We having cavify that the following sumple Deput by in his boar analyzed with the following results:

1. Group	AIR
2. Description of sample	Ambient Air
3. Unique localification of sample(id any)	Asca West you & Mr. Minns
4. Date of sampling	06/01/2024
Place of sampling	New Cangerpute Pet ANNA
Environmental conditions during segming & Torosport	Clear & Sumy
Settlement of an A Michael Louis	NA .

Report No.: MSKGL/ED/0003-24/00/452

Sample No. : MSKGL/ED/2023-24/01/00324

RESULT

Analysis Result of Ambient Aur							
51 No.	Parimens	LION	Method	Limit	Result		
1	Ammueis (NICI)	Enring ream	15 S 182 (Mar 25)	400 24 HR.	-		
2	Carbon Monoxon (CO)	ring/milt	15 5182 (hips (f) (1999 (Rooft 2014)	2 BHR	19.9		
3	Narogen Dicosto (NO2)	Missign/m3	(MDR) (0) IS 5162 - Pan 6 2001 (Reph 2012) (0)	8024 HR	19,5		
4.	Ozone (Od)	Emirro trates)5 5162 (Pan 9)	180 1 HR	BOLIDL 2010		
5	Particulate Maller (<10 and	- Emmig grown	15 5162: Part 23 300 (Result 3012) (D)	100 24 HIL	186		
· u	Famouble Matter (52-5000)	Distribution	IS 5162 (FT-24),2015 (C)	60.24 (18)	08		
7	Silpeur Dionile (SGZ)	management	15-51/2 Part 2 2001 (Real(2012) (O)	80.24 HFL	7.7		

-ERD-

Report Verified By

Heard Office:

For Mitra S. K. Private Limited

Dist. Mr. MSKOGEWISKY







Scan for Portal ULR: TC-095024000001646F

Name & Address of Customer :

Tota Stori Ltd (MGM)_Joda West

Address of Laboratory :

West Bengal Tel.: +91 70/403/8120 Ersall Indeventab@mitrask.com

Building No. P. 40, Udayan Indiab ... Estato, 1, Pogladiviga Road, Koliva i 700015

At/Po. - Jude, Disc. - Keorgner, Odmin - 758039 Frate.

TEST REPORT

Report No. :

MSKPU/ED/2023-24/W1147V Date: 03/02/2024

Sample No. : MSKNBJED/0623-24/01/AX13F4

Date of receipt of sample: 09/01/2024

Date(s) of performance: 09/01/2024 - 02/02/2024

Location of performance of

Reference No. & Data : Discipline:

Permanent Facility

3000156017/056, Liste - 16/09/2023

Chemical

We hereby certify find the following sample submitted by the customer has been employed with the talks

I. Group	Atmospheric Politikin		
Z. Description of sample	Ambient Air		
1 Unique identification of shinglight any)	NA NA		
4. Date of sempling	06/01/2024		
I. Place of sampling	Neer O-Cusarry Sorting Yand		
Environmental conditions during sampling & Transport	 Temporation: 72-25 deg ⊆ 2) Barrametric Pressure: 735 mm of Hg 3) Rain fall No.4 Cold Chain Maintained 		
7. Sampling Plan & Merhod used	5.1/162/P-11.12/11.8864A		
s. identification of the personnel performing sampling by MSK	Lain Maik Dhommedha Das		
k. Field Equipments Used	MSK/BBLFFELD/RDS-6		

Report No. : WSKPUEU/2023-24/W1147V

Sample No.: MSKNB/ED/2023-24/01/AX13F4

RESULT

Chemical							
51 No.	Parameter	UOM	Method	Limit	Requit		
10.	Arsenic as (As)	rig/m3	USEPAJOS A Jimp	8 (Annual)	DDL(DC 1:0)		
2	Hanzene	Criving croim	IS 5182 (Park 1:1)	fi (Annua)	DDL(DL 4.2)		
3	Bertzo(a)Fyreno	mp/m2	IS 5162 (Part 12)	7 (Annus).	50L(DL10.5)		
4	Lead (as Pb)	micro pm/m3	USEPA-IO-S.A. Jumi	1 (24 v tours)	0.02		
5	Manganesa as Mn	micro gratmS	USEPA-IO 3 4 June	Not Specified	1.01		
8	Nickel as Ni	ing/mG	USEPA103-1 Jing	20 (Annual)	7.8		

Otilinion:

Limit as per CPCR neithcaller, New Dalle, 18th Recember 2009; for Amberts or quality.

Statement of Conformity

END -

Provinced By

SECTION ATT. Marine

Or Devotion Bonaria

Designation | Technical triphisps Authorizati Significial

Skretin

None

The results made only to the species within

The Tee Report stall out in repeated access to but consense per persons of falls fig. Private Linaud.

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of Todays was burger into

Address of Branch:

P.O. Barry Dt Keonthar Orssa 754 trus





Som for Partial

Name & Address of Customer :

Fala Steel Ltd (MGM), Joda West

AUPo. : Juda. Dait. - Keonyhar, Octobra - 755034. India Pin

TEST REPORT

Report No. :

Date: 1000000

Sample No. :

Reference No. & Date :

70/02/2024

MAKGL/ED/2029-24/01/00923

M/KGL/ED/2023-24/004445

3000158017/056_Eam - 55/09/2023

We revery certify that the histoweg sample Drawn by us has been analyzed with the following resorts

1, Ghodp	AIR
Z. Description of sample	Ambiert Au
1. Unique Identification of sample(If may)	JOSE West later & Mr. Mirror
4. Pate of sampling	09/05/2024
5. Place of sampling	Naze D-Chaires-Germay Yand -Withthe
5. Environmental conditions during transplant & Transport	Cheer & Throng
7. Sunning Plen & Method used	NA .

Report No.; MSKGL/5D/2023-24/004448

Sample No.: MSKGUED/2023-2401.00323

RESULT

BI No.	Parameter	00%	Method	Limit	Result
1	Ammuniu (NH3)	нет димого	18:5182 (Paul 25)	400 24 HR	54.5
2	Carbon Monexide (CCI)	Britans	10 6102 . Fact 10 :1000 (West 2014). (NOW). (O)	2 866.	0,52
3	Nitrogen Dioxidis (NO2)	Micrographes	JE S182 : Part 6 2866 (Roull 2012): (U)	WG 28 HE	21.8
d	Ozonio (02)	man grows	IS-5182 (Part 9)	180 1 HR	BDL(DL:20.0)
	Particulate Manue (<10um)	more grains	IS 6/82: Part 28/2006 (New 7 J012) (O)	100 24 HR.	211
15	Perficulate Mallier (<2.5um)	micro grain 2	IS 5162 (P1-24),30% (O)	60 24 HR.	100
7	Subject Novide (BC2)	mara gmini3	\$5.5162 (Pref 2.3001 (RemitCav12) (0)	80 24 HFL	8.8

-- END-

Report Verified By

Issued Officer

For Mitra S. K. Frivate Limited

Authorised Signatory

- But

Address of Laboratory:

Building No. P. 48: Udayan Industrial Estate. 3. Pagladarga Roso, Kidinia 700015

West Europi Tel.: +91 7044035120 Email udayanlab@milraek.com







Scan for Portal

ULR: TC-695024000001644F

Date the MEKODERHISKY

Name & Address of Customer:

Teta Steel Ltd.(MGM) Joda West

AUP's -Joon, CAR - Neoniner, Odenia (758034 Infla-

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023/24/N1147M

03/02/2024

MSKNB/ED/2023-DARH/EB13CP

09/01/2024

09/01/2024 - 02/02/2024

Penningni Facility

3000156017/056; Date - 16/09/2021

Cheraval

We hereby carefy that the following sample Driver by us had have endowed with the following results:

1. Group	Atmospheric Relation	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(if any)	NA.	
4. Date of sampling	06/01/2024	
5. Place of sampling	Near D-Quarry Screen Plant	
6. Environmental conditions during sampling & Transport	 Tonius W. * 12-25 dog C 2) Barometriu Pressure: 735 mm of eig 3) Rain ta No 5 Cold Chain Maydaned 	
7. Sampling Plan & Method used	15:6182(F-11:12) & USEPA	
II. Identification of the personnel performing sampling by MSK	Lalin Nair Dhambrutha Des	
9. Ploid Equiparents Linea	MSN/SSLFELLINCS 0	

Report No.: MSKPL/ED/2023-24/N/1147M

Sample No.: MSKNB/ED/2023-24/01/6813CF

RESULT

Chemical						
Parameter	non	Mathod	Limit	Restill		
Americ In (As):	ng/m3	LISEPAJO 3.6, June	6 (Annual)	BDL(DL:1.0)		
Benzene	interaconviva	15:5182 (Part 11)	5 (Answei)	001/01/4/2)		
Benzo(a)Pyrene	nginsa	15.5182 (Part 12)	T (Annual)	BCL(DL 0.5)		
Leed (b) Pb)	University and in-	UEEPA 10 9.4; aures	rt (34 Hours)	0.05		
Mangariese as Mn	miera gminā	USEPA-ID 3.4: June	Not Specified	0.13		
Mickel as N	Gmgm	USEPA ID 3.4, Junio	20 (Armail)	BDL(DL.0.0)		
	Arseric III (A6) Benzene Benzo(a)Pyrene Leed (as Pb.) Mangariese as Mn	Arseric in (As) ngm3 Benzene intra gm/n3 Benzene ngm3 Lead (as Pb.) miana gm/n3 Mangariese as Mn miana gm/n3 Nickel as M ngm3	Americ in (As) ngm3 LISEPA-IO 3.4, June Benzene inicra gnilin3 18-5182 (Part 11) Benzo(a)Pyrene ngm3 18-5182 (Part 12) Lead (as Pb.) micra gmin3 USEPA-IO 3.4, June Mangariese as Mn micra gmin3 USEPA-IO 3.4, June Nickel in NI ngm3 USEPA-IO 3.4, June	Americ in (As) ng/m3 LISEPA-IO 3.6, June 6 (Annual) Benzene interagnitiva IS 5182 (Part 11) 5 (Annual) Benzene ng/m3 IS 5182 (Part 12) 1 (Annual) Lead (as P5) micra gm/m3 USEPA-IO 3.4, June 1 (S4 Hours) Mangariese as Mn micra gm/m3 USEPA-IO 3.4, June Nat Specified Nickel as NI ng/m3 USEPA-IO 3.4, June 20 (Annual)		

Diplnion:

Unit or per CPGS entiferation. How Daths, 10th Proyectors, 2000, or complete or specific

Statement of Conformity MA

END -

Hayanaire By:

Lignment

Morre

Dr. Davermy Banado

Desaration

Tettrica in creese

Authorized Signators

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Head Office:

Emery Course (16 Years) May A FC Scott Radia Reduction 1998/M, West Stronger, India. Tal. 1913 274-28200 (1985/0007 Fast 91: 98.2985/0009 Emery (1985/1996 (1986-1996) (1986-1996) (1986-1996)

Address of Branch:

P.O. Barbil Di Kumilian Orace (50 ctar.

Name & Address of Customer :

AliPo. - Joda Dist. - Koonjilar, Odena - 758034 India Pin

Talls South (M.)MCs(A) Linda (Asset)





TEST REPORT

Report No. : Date:

MBKGL/ED/2023-24/004451

10/02/97024

Sample No. :

M8KGL/ED/2023-24/01/00022

Reference No. & Date :

\$684156X317/056, Date - 18/08Q5025

We listed centify that the foliating sample Drawn by us this bean ampliced with the foliating results

1. Group	AIR	
L Description of sample	Ambient Air	
I. Lingue Identification of sampailf any)	Joda West from & Mrs. Miners	
4. Date of exerciting	08/01/2024	
S. Place of sometting	Make B-Conney Screen, BMMM	
i. Environmental promissions during sampling & Transport	Clear & Saffin	
7. Sampling Plan's Mathod gaed	NA	

Report No.: MSKGL/ED/2023-24/000451

Sample No.: MSKGL/ED/2023-24/01/06322

RESULT

malysis Result of Ambient Air							
2144	Farenciar	MON	Method	Limit	Result		
10.5	Anmonia (AH3)	mugo gmmg	85-5102 (Psrt 25)	400 Z4 HR.	17.0		
2	Daition Monocode (DD)	malm3	(5.5162, Puni 10 (1999 (Amart 2016) (NIOR) (O)	2 (HR.	0,42		
-5,	Nitrogen Diexida (NO2)	wide during.	\$ 5/92 : Part 6 :2006 (Realt 2012) (D)	80 24 HR	18.4		
4.	Cistone (De)	filming etaler	US 5/185 (Part 9)	180 1 HR.	HD1(0(:20.0		
-5	Philliplan Mass (< libra)	racro coninci	S 5)42 Part 25:2001 (Forth 2012) (5)	100 24 5%	170		
5	Fatibilian Matter (<2.5um)	Cmirry cross	IS 5/82 (FT-24),2019 (D)	60 24 HR.	71		
T	Suprar Decede (802)	Interespond	5 5102 Part 2 2001 (RestC2113) (O)	80 24 HPL	6.6		

END

Report Verified By

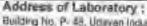
For Mitra S. K. Private Limited

Authorised Signatory

Street Controller First 745, A.J.C. Specified School-700016. See Bengal odd. 18. of 30 at 54445 (25860077a), 17 St (270000) [and left] Street Low Whether waterships and Head Office:

CHIC NO. MEKIGENHAMI





Building No. P. 48, Uthiyan Industrial Estate 3. Pagradanga Ruad, Kritivez 700015 West Bargal

Tel.: 491 7044036120 Email udayanloc@mitras:.com





Scan for Portal

MLR: TC-6950240000018436

Name & Address of Customer:

Tata Sleet Ltd (MGM) Joda West

AVPo - Joda Din. - Kinnings, Durana - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/91:472

09/02/2024

MSKNB/ED/2023-24/01/27:40V

09/01/2024

09/01/2024 - 12/02/2024

Permanant Facility

3000156017/056, Date - 15/09/2023

Chemica

We bereby cordly that the following sometic Drawn by us has been analyzed with the following respect

1. Group	Atmonomens Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA .
A. Dete of sampling	06/01/2024
5. Place of sampling	Ranyay Sidiny
6. Environmental conditions during sampling & Transport	1) Temperature: 12-29 day C J: Barometric Pressure: 735 mm of Hg 3) Rain to No & Cost Observational
7. Sampling Plun & Method used	(S:8182(P-71,12) & USEFIA
a. Identification of the personnel performing sampling by MSK	Latin New Dhambourna Des
8. Field Equipments Used	MSR/BBILIFIELD/ROS-3

Report No.: MSKPL/ED/R023-24/91147Z

Sample No.: MSKNB/ED/2023-24/01/27140V

RESULT

Chemical '						
51 No.	Parameter	DOM	Method	Limit	Result	
1	Americ as (As)	ng/m3	LISEDAJO 3.4, June	5 (Annual)	PGL(DL-1.0)	
2	Benzene	micro priim3	IS 5182 (Part 11)	5 (Annual)	BDL(DL42)	
3	Benzo(a)Pyrone	rigim2	IS 5162 (Part 42)	1 (Amrud)	BOL(DL:0.5)	
4	Lead (mi Ph.)	miuro gm/m3	USEPA-10-3 A, June	1 (24 Hours)	E01	
Đ.	Мардалныя as Mn	micro gnulni3	USEPA IG 3 4: June	Not Spenified	0.19	
8	Nickel as Ni	Enrign	USEPA 10 3.4, June	20 (Annual)	BOUDLED	

Onlineon :

Limit so per CPCB notification, new Down, 16th Howember 2009, for explained as quality

Statement of Conformity

END-

Daybarre Dy

Significant

Dr. Dayonam Barr

Designation

Technical in crarga

Authoroad Signatory

Strakow

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Chemis Dayes, Len Frieri, Pall, A.J.C. Bose nine; Kobasa 1000th, West fire and the UP 33 471455001 (2050017 Tex. 91.33 2250000)

Trial | MacGreenekroth Webler | Www.mbrell.nath

Address of Branch :

P.C. Bastin Dt Keeningr Oness 750 023





Scat lie Perso

Name & Address of Customer:

7 Idn Steel Ltd (MGM) Auto West

AVFo. - Jode, Dist. - Nacrybur, Odahu - 758034 India Pin

TEST REPORT

Report No. "

Date

Sample No. :

Reference No. & Date :

M3KGL/ED/(023-24/004466

10/02/2024

M\$KGL/ED/2023-24/01/00/97:

38000156017M86, Dete - 15/09/2023

We haveby corply that the following sample Drawn by so has been analyzed with the lokewing results:

1. Group	AR
2. Description of sarcon	Ambient Av
3: Unique Momification of nample(d arry)	Joea West iron & Mr. Mines
4. Date of sampling	0601000A
5. Plane of campling	New Palling Deling Baldase
5. Environmental conditions during amening A Transport	Clove & Cuara
Sampling Plan & Method used	NA .

Report No. : MSKGUED/2023-24/004455

Sample No.: MSKGLED/2023-24/01/00321

RESULT

malysis Result of Ambient Air						
St No.	Paramater	UOM.	Wellson	Limit	Result	
1	Americania (NH3)	refere greatest	1S 5182 (Parl 25)	400 24 HR.	172	
-2	Carteri Moscosse (CO)	mgimili	(9.5162 Pert 16 Time (Peat 2014)	2 BHR	0.68	
3	Kittegen Dinzide (NO2)	micro grains	(NDIR) (N) 55182 Part 2005 (Raw 2012) (O)	80 Z4 HR	-	
4	Ocores (O3)	micre groim?	\$5187 (Part 9)	180 1 HR	DR.F.	
5	Persolate Malley (<10sm)	Emiling main	IS 5182 Part 23:2009 (Februar 2010) (O)	150.24 HR	BDA(0=:30)	
D-	Paraculate Metter (<2.5um)	micra grows	85 5162 (P) (24),2(19_(0)	80 24 HR.	248	
-7	Sulphin: Disselle (SEQ)	mean growns	65 5182 : Philip 2001 (Real 2012) (C)	80 24 HH.	5.5	

-END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Chical-Carrier (Sh Figury, 198, A.J.C. Blook Road Holizon - 700016, West Dawpat Value Tel. Or to employed Chicalant Free of TS 22500000. Blook salesgeething completely accept companyon

Page | off

DOONE, MISSOSEMBERT







ULRI TC-895024000001848F

Name & Address of Customer :

Tate Steel 1.10 (MGM)_Joda West

Address of Laboratory;

West Bergal Tel: +91 7044036120. Email: udayanint:@mitrask.com

Building No. P- 46, udayan Industrial Eslate. 3. Pagadangs Reed, Kalkata 700015

AtriDo Joda, Diet. - Kasnifter, Odjehe - 756034 mga

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023/24/31/477

03/02/2024

MSKNB/ED/2023-24/01/5/G (A)W

11/01/2024

1 (/01/2024 - 02/02/2024 Pergustent Facility

3000158017/056 Date 18/09/2023

Chemical

We havely certify that the following sample Down by us has been annivored with the tolorwing reside-

I. Group	Atmosphera Pelinien
Description of sample	Ambient Air
. Unless identification of sample(if any)	NA NA
Date of samping	08/01/2024
Place of campling	Near Time Office JAVIAM
Environmental conditions current sampling & Transport	1) Temperature (2-25 dag C 2) Barametric Pressure: 734 pm of He 3) Raio fa
Sampling Plan & Method used	No.A Cold Chain Maintained S-5182(P-11,12) IL USEPA
Gentification of the personnel performing sampling by MSK	Pretic Ki Mante Naik, Akasa Ju Sety
Field Equipments Used	MSK/BBLIFFELDWRDS-2

Report No.: MSRPL/ED/2023-24/.111477

Sample No.: MSKNB/ED/2023-24/01/BG1A3W

RESULT

Chomical						
Paramotor	Uom	Method	Limit	Result		
Amenic as (As)	Em/gr	LISTPA IO 3 A. June		BDLIDL LO		
Benzens	micro pro/m3	IS 5182 (Part 11)		BDL(DL 4 2)		
Senzo(s)Pyrene	ng/mil		T. C.	BOL(GL(D.5)		
Lead (as Pb.)	Ententy orders	The second secon				
Manganese as Mn	micm gm/m3	and the state of t		0.02		
Mickel as Ni	mp/mS			BDL(DL 5.0)		
	Arsenic as (As) Benzene Benzo(s)Pyrene Lead (se Pb.) Wenganese as Mn	Americ as (As) norm3 Benzens micro prom3 Benzo(s)Pyrene ng/ed Lead (is Pb.) micro grove3 Menpanese as Mn micro grove3	Arsenic as (As) notm3 IISEPA-IO 3 A June Benzens micro proin3 IS-5182 (Part 11) Benzo(s)Pyrene ng/Hd IS-5182 (Part 12) Lead (as Pb.) micro gravin3 USEPA-IO 3.4, June Manganese as Mn micro gravin3 USEPA-IO 2.4 June	Arsenic as (As) no/m3 (ISSEPA-IO 3 A June 6 (Annue) Benzene micro pri/m3 (S 5182 (Pad 11) 5 (Annue) Benzo(s)Pyrene ng/m3 (S 5182 (Pad 12) 1 (Annue) Lead (as Pb.) micro gra/m3 (USEPA-IO 3.4, June 17 (24 (Nors)) Mishiparese as Min micro gra/m3 (USEPA-IO 2.4, June Not Specified)		

Opinion:

Limit as our CPCS satisfication, Now Daths, 1889 Neverther 2009, for propertial quality

Statement of Conformity NA

END

PERSONAL DIVI

SQUARE Mamo

Dr Deveton Solo

Descriptor

Technique incharge

Authorized Signatory

Square

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Proces Cartin (SELFALL) (AB N. J.C. Bone Plant, Non-ma-102210 West Surjan (Am-lan, Rf 28.40145000 (288000) Fac. 9135-7286008 Head Office: from the grown market (wipers www.

Address of Branch:

P.D. Seroll Dt Konnitter Orssa 758 006





Sem for Partitle

Name & Address of Customer :

Tinto Street Ltd.(MGM) Josta West

AVPc - Jobs, Dist. - Keenthar, Odesha - 758034, India Pin

TEST REPORT

Reference No. & Date :

Report No.:

Date:

Sample No. :

MIKGL/ED/2023-24/904461

71/07/21/2024

MSKQL/ED/2023-24/01/00/02/

3000156017/056, Oule - 15/00/2023

We harryly centry that the foreway sample Drown by us less been analyzed with the following mostly:

1. Group	Afr
2. Description of sample	Ampert Au
Linique fromilliannian at sumple(if any)	Joda Wust ros & Mr. Misss
4. Date of sampling	00/04/2081
5. Placo of sampling	Noor Time Office Wilde
6. Environmental comultant during terming & Transport	Clear & Sugge
7. Sampling Place & Method word	NA

Report No.: MSXCL/Chichzs 24/004461

Sample No.: MSKGL/ED/2023-24/01/00/24

RESULT

St No.	Paromotor	UCM	Westing	Limit	Result
1	Annonie (NRS)	mand greens	(5.5182 (Part 25)	400 24 HR.	16.5
2	Carbon Montrode (CO)	mu/ms	(S 5192 Fret (0 : 1999 (Realt 2014)	2 8HG.	0.59
N.	Militigen Dioxide (NC2)	Emiring organi	(8.51)2 - Past & 2006 (Nestf 2017) (C)	80 24 162	-
4	Dzone (O3)	mioro amima	15 5702 (Pat 9)	180.1 HR	29.2
h	Policusia Mader e<10um)	micro griving	IS 5182 Part 2001001 (Priorit 2012) [0]	100 24 HR	RDIL/DL-20.0
0	Paracolage Moder (<2.5mm)	micro gm/m3	65.5142 (PT-M),2018 (O)	E0.24 HR.	224
7	Sulphut Deouge (SCO)	Environ provins	(S 5/162 Part 2 2001 (Rest 2012) (O)	80 24 HR	109

- EMD -

Report Verified By

Head Office:

(1862)

For Mitra S. K. Private Limited

Authorised Signatory

manufacturing per tains, 789, Aut. Bass food; suitable 700016, west Bergal Indo for 1970 Historica Commonweal in the Ecological Brook and Ecological Lates Widoles, with reductions

Page 1 at i

Our No. MSWGENTENT









Scan for Portal

ULR: TC-895024000001649E

Name & Address of Customer:

Tata Steel Ltd.(MGM) Joda West

Address of Laboratory :

Vest Bergal Tel: +81 7044036 (20) Email włayeniab@milines.com

Building No. P. 45, Udayan Industrial Estate 3. Pagladange Road, Kollosta 700016

AUPA - Inda Dist. Keoryner, Odishe - 700004 Inda

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPI/ED/2023-24/511477

03/02/2024

MSKNH/ED/2023-24/01/DV1A7N

11/01/2024

11/01/2024 - 02/02/2024

Perminent Pacifity

3000158017/056 Date - 15/09/2021

Chemicsi.

Will hersby certify that the following semple Drawn by ut his terms analyzed with his following resemble.

f, Graup	Air estione Politica	
Z. Orscription of sample	Amhieri Ar	
5. Unique identification of sample(if any)	NA NA	
4. Date of sampling	08/01/2024	
S. Place of sampling	Nosi Faliway Siding JIMMM	
Environmental conditions during sampling & Transport	1) Temperature (12-28 day C 2) Berometric Pressure: 734 mm of the 7: Com-	
. Sampling Pan & Method used	18:5183(P-1*, 12) & USEPA	
I identification of the personnel performing sampling by MEK. Field Equipments Used	Pratix for Mantin Nally, Aleash for Setty	
c Leno criticipatus ration	MSK/BBL/FIELD/RDS-1	

Report No. : M5NPL/ELV2023-24/611471

Sample No.: MSKNB/ED/2023-24/01/DV1A7N

RESULT

Chemical						
SI No.	Paremeter	MQR	Mathod	Limit	Result	
4	Arsenic as (As)	no/m3	USEPA IO 3.4, June	d (Annual)		
2	Benzere	Emiring qualiti	15:5182 (Part 11)	6 (Annual)	HDL(DL 1.0)	
3	Benzo(a)Pyrene	ng/m3	15 5182 (Part 12)	1 (Annual)	BOLIOU42	
4	Lead (as Pb)	(micra pni/m)	USEPAID 1.4	F(24 Hours)	BDL(DL:0.5)	
5	Manganese es Mn	viicro gniwnS	USEPA40 3 4: Jung	Not Specified	0.01	
6	Nickel as Ni	ing/m5.	USEPA IO 3 4 June		0.58	
Delinion :	I delit on our cirile	the considerance of the constitution of		20 (Armuse)	12.1	

Limit as per CSCS outlieston, May Dolhi, 18th Hovenday 2009, per respect all quality

Statement of Conformity

END.

Ottowns by

September

Name Dr Danities the Designation

Essensiol in charge

Authorized Signatory

Signmen

The make (both dray to the design) make. The Tee Report distance is reported out on the matters on polynomical Man C.C. Stone Lamber.

The comments can of company to describe analysis (New) period for employs (New) that he calmed to 10 days from the charge of the lines flagger Post rather employs should be charged to charge the charge of the lines flagger than the

On manufacture of secretary to the control of the C

Security Committee (State Florida) / III. A J C Bound Road, Known (INSCH., Warrings) III. 54 St Ann Color / TANACOO'F Fax. 91 25 2200 ADB Hand Diffing: Dress of Affections care species, were palating con-

Page | u/ i

AVPo. - Joda, Dist. - Keurihar, Odena - 758034 Indis Per

Address of Branch:

P.O. Bartil Di Keonjav Driese 758 645

Name & Address of Customer:

Tires Small Linch (MDM) Jupa West.





Sem for Pormi

TEST REPORT

Report No. :

MSKBL/EDI2023-24MINNEN

Date:

(0/02/2024

Sample No.:

MSKOL/ED/2023-24/71/00426-

Reference No. & Date :

3000156017/056, Date: - 15/09/3027

We havely deally that the following sample Dieser by us has been snaiyzed with the following results:

1. Graup	AIR
2. Discription of sample	Anthiam Air
3. Unique locatification of sample of any	Joda Weit inn 8 Mr. Mines
4. Date of sampling	CB01/0/0/4
5. Place of eartpling	Name Rashany Siding JWIMU
6 Environmental conditions during ampliny & Transport	Class & Sharry
7. Sampling Fran & Wednog uses	NE

Report No.: M5KGLED/2023-24/80464

Sample No.; MSKGL/ED/2023-24/01/00425

RESULT

Analysis Result of Ambient Air						
Si No.	Parameter	DOM	Mothod	Limit	Promits	
	Ammonia (Po-t3)	Cirilrop prorto	18 5182 (Part 25)	400 24 HR	16.5	
2	Carbon Monovide (CO)	Em\gm	III 5182 Pect 15 (1999 (Rentf, 2014) (MDRU (D)	2 8HR.	0.54	
3	Nerogen (Norde (NOV)	micro grivo3	IS 8182 - Part 6: 2006 (Reaff 2012) _(C)	80 24 HR	24.5	
4	Dzane (00)	Covered process	(8.5182 (Part 9)	380 1 HR.	BOTIDESONAL	
	Performe Matter (*10um)	more griving.	IS 5182: Part 25 2006 (Plant 2012); (O)	100 24 HR.	242	
. 6	Farita Join Matter (<2 flum)	mero grand	75.3182(FT-24),2015 (O)	50 24 HFL	123	
T	Suplur Dioxite (SC2)	Micro grows	16 51/2 Part 2 2001 (Rust 2012) (CI	80 24 HFL	9.5	

END.

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Head Office:

Address of Laboratory:

Building No: P- 48/ Udayan Insustrial Estate 3, Pagtadanga Road, Kolkata 700016 Won benyal

(b) :+91 7044(3)5120

Email: udayantati@mitrsak.com





Sean for Portal

ULR: TC-695024000001650F

Disc No. MINNOSEN 1997

TEATING # WERECOLD

Name & Address of Customer

Tata Steel Ltd (MGM)_lode West

AliPo Jinda Dist / Keonjkar Odlaha - 758084 India

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/EU/2023-24/71147C

03/02/2024

MSKNEVED/2023-24/01/JC1A46

11/01/2024

11/01/2024 - 00/02/2024

Demianed Facility

3000156017/056, Daile - 15/09/2023

Obernical

We hereby certify that the following gampie Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA .
4. Date of sampling	08/01/2024
5 Place of sampling	TN88F D-QUarry Screen //Y/MM
6. Environmental contribute during sampling & Transport	 Yemperstree 12-26 day C 2) Barcanutric Pressure: 734 mm of Hg 3) Rain to No & Cold Chair Maintained
7. Sampling Plan & Method used	(8:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK.	Pratis for Manin Nais. Alkash for Softy
9. Field Equipments Lised	MSKIBELF (ELDINCIS-R

Report No.: MSKPL/ED/2023-24/711470

Sample No.: MSKNB/ED/2023/24/01/JC1A45

RESULT

Chemical					
St No.	Parameter	NOM	Method	Limit	Result
4	Arsenio as (As)	ng/m3	USEPAJO 3.4. June	6 (Annual)	BOL(DL 1.0)
2	Benzene	encro gaves	IS 5182 (Parl 11)	5 (Annual)	HDL(DL:4.2)
3	Eertzo(s)Pyrens	rg/m3	IS 5162 (Part 17)	1 (Annual)	BOL(DL0.5)
4	Lood (as Ph.)	citize grates	USERA-IC S A. Jum	I (24 Hours)	RDLIDLIQ D1)
5	Manganese as Mn	micro gm/m3	USEPA-ID 3.4: June	Not Specified	0.21
	Nickes as F6	Crr\gn	USEPA-ID 3.4 June	20 (Annual)	BOL(DL/S-0)

Opinion :

Limit to per O-GB autiliorities, here Don't 18th Havenber 2006, for Ambunitair quality

Statement of Conformity

END.

Reviewed Sy:

Digothiati.

Marris

on Banch Dr. Devotien Des

Designation

Twomes in chera

Authorized Signatory

Signature

Designation i ab lo tharps

The results posts only to the design make:
The Test Report House of the Test Report Post Response on the William Street Posts on the William Street Posts on the Test Report. Performs serviced account (No. 1) the process on the result of the Test Report. Performs serviced account (No. 1) the process of the Test Report. Performs serviced account (No. 1) the process of the Test Report.

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The Places!
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Address of Branch

P.O. Garbai Dt Kisonijker Dilego 755 005





Stan for Paris.

TEST REPORT

Name & Address of Customer:

Talla Reviol Ltd., (KRCSMS, Joda Wood)

Al/Po. - Joda, Dist. - Keunjhar Odsha - 758034 India Pin

Report No.:

Date:

Sample No.:

Reference No. & Date :

MSKGL/ED/2025-24/004456

19/02/2024

MSKSL/ED/2023-24/01/0428

3000158017/056, EMW - 15/J9/J023

Wie isoraby eartify that the inflowing setting Drawn by us has been analyzed with the following reserve:

1. Group	AR
2. Description of sample.	Ambient Air
Lineque identification of sample(if any)	Joza West inm & Mn. Mines
L Cate of surrylling	08/01/2024
Photo of complete	Many Di-Chairey, Science SV/IMM
Environmental conditions disning sampling & Transport	Charle Starry
7. Sampling Plan & Method used	NA

Report No.: MSKGL/EB/2023-2410/466

Sample No. : MSKGL/ED/2023-24/01/00426

RESULT

Analysis Result of Ambient Air						
al No.	Гынцынг	LICAL	Method	Limit	Result	
4	Ammonia (MICI)	micro gri/n3	15 8187 (Perl 75)	400 24 HR.	45.0	
2	Carbon Microside (CO)	mg/m3	18 S182 (Part 10 :1000 (modif.2014) (NDR) (D)	3 894.	0.67	
3	Nilrogen Dioxide (NO2)	Enimp otalm	15 5 (FQ : Part 5 27815 (Reaf 78172) (D)	60.74 HR.	10.0	
4	Ozma (O3)	ment gminds	(551/5 (Pari 9)	1801 HPL	90L(0L20.0)	
5	Participate (#10cm)	micro emima	15:5182: Part 23: 2016 (Revol. 2012) (D)	100.24 HR	174	
6	Particulate Matter (<2.5um)	militro gravino	tis 5182 (PT-94),2019 (CI)	00 24 HR.	80	
-7	Selphur Claude (SCZ)	mitte gmint)	IS 5182 (Part J 1900) (Rest 2012) (O)	80.34 HR	7.5	

END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Street: Contra (SA Yate), 740, A J.C. Take Foot, Milesto - 70/010 West Bargal Valle. Tol. 31 20 40 April (2000001 For 81 2) (2000000 For 81 2) (2000000 For 81 2) (2000000

Page 5 of

Address of Laboratory :

Building No. P. 40, Udayar Industrial Earth. S. Pagladange Fond, Kolketa 700016 Mart Borgal Tel: +91 7044035120

Email udayanlab@mittask.com







Doc No. VESIOGEN/SHIT

Down for Portal

ULR: TC-885024000001661F

Name & Address of Customer:

Tata Steel Ltd.(MI3N) Joda West

WVPD - JOSE DIST - Keonyrur, Optoba - 758034 India

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKHL/ED/2023-24/W114TG

03/02/2024

MSKNB/ED/2023-24/01/LHTAUC

11/01/2024

11/01/2024 - 02/02/2024

Permanent Facility

3000 (560 (7/056, Date - 16/09/2023)

Chamical

We hereby cartify that the following sample Dissorr by US has been unaryzed with the following opinion:

1. Group	Almerphore Palieties
2. Description of sample	Ambient Air
Unique Identification of sample(fl.eny)	NA .
4. Date of emopting	08/01/2024
s. Place of sampling	Ness D-Quarry Sorting Yard JWMM
ii Environmental contribions during earnpling & Transport	Temperature 12-20 cog C 2) Barométric Pressure: 734 mm of Fig 3) Rain rains & Gold Chain Mainfaired.
7. Sampling Plan & Method used	US-STERP-11,121 A USEPA
8, Identification of the personnel performing sampling by MSK	Pratili Kr Martri Walk, Akash Kr Senty
9. Fleid Equipments Used	MSK/BULFIELD/RDS-6

Report No. : MSKPL/ED/2023-24/W/1147G

Sample No.: MSKNB/ED/2023-24/01/LH1ASC

RESULT

hemical					
S! No.	Parameter	MON	Method	Limit	Result
1	Areanic as (As)	. ng/m3	USEPA-10 9.4, June	& (Annual)	BOL(DL:1.0)
2	Banzone	micro gm/m3	8 5162 (Part 11)	5 (Annual)	DOL(BL+2)
3	Benze(a)Pyrene	ng/mS	S 5182 (Part (2)	1.(Annual)	BOL(GL:0.5)
4	Lead (se Pk.)	micry gravital	U66PA-10-3-4, June	1 (24) (24)	0.01
5	Мапрапене ал Mn	micro gm/m3	LISEPANC 3-1; June	Not Specified	4,39
8	Nickel as Ni	ng/m3	UBEPA-ID 3.4. June	20 (Annual)	13,2

Opinion:

Limit as per GPOB institution, may Spirit, 16th November 2009, for Apparent or growing

Statement of Conformity

END -

Wavewell By

Spieture

Marie

ca lleaning Dr. Devergen Bare

Disignation Technical Insperge Authorized Signato

Designation len menane

The front Super structure of the many protection of the performance of the S. P. Protect United.

The reserved port of company the Company of the performance of the S. P. Protect United.

The reserved port of company the Company of the Protect Operation of the Protect Op

Hend Office: DIRE INCOME ION WHEET INVENTION OUT

Address of Branch:

P.O. Barbi Di Kemyan Onsaz 758 035





Som he Virtui

Name & Address of Customer:

Talle Draw Life, IMCM3, Jorda West

At/Po. - Jode, Utst. - Keonmar, Odelin - 758034 Initia Par

TEST REPORT

Report No. :

Date:

Sample No.

Reference No. & Date :

MSKGL/EU/2023-24/004457

DATE SAME

MSNOL/HTV2023-24H1MB427

20001560177056, Date - 15/06/2028

We havely cartify that the histowing sample Drawn by us has been applyant with this intowing explici-

1. Group	AIR
Z. Udserription of sample	Ambieu Air
2. Unique Mentire atton of susuple(il ear)	Joda West Iron & Mn. Mires
4. Date of sampling	08/01/202W
5. Plans of surroling	Near D-Chinese Station Vant 34(1).644
Environmental scinditions thiring sampling & Tolongood	Clear A Siarro
7. Sampling Plant & Method sacc	NA.

Report No.: MSKGL/ED/2003-24/004457

Sample No.: MSKGL/ED/2023-24/01/00427

RESULT

Analysis Result of Ambient Air						
BING.	Personal	- NOW	Ministra	Limit	Result	
1	Ammonia (1013)	micro grainia	\$5000 (Part 25)	960 24 HR.	183	
1	Carbon Munoxise (CO)	my/mii	18.5182 Part 10:1999 (Redf.2014) (MOR1 D)	2 MR.	0.26	
3	Nicoger Dioxida (NICIZ)	micro gm/m2	S-5182 : Part 6: 2108 (Reaf-2012) (D)	80:24 HR.	26.7	
4	Conne (CIS)	micro gm/m3	18.5182 (Part 9)	180 1 HR.	BDL(DC-200)	
9	Parabate Matter (=10mm)	mice graval	15 STRS Part 25:59138 (Rest 2012) (0)	100:24 HR	23/	
6	Particulate Matter (<2.5um)	mioro gralys2	IS 5182 (PT-74) 2015 (O)	60 24 HR.	108	
1	Sulemin Dilexade (SIDZ)	meta gwesi	#5 5182 : Part 2 (2001 (00xx)[2/012]_ (D)	ED 24 HR.	7.1	

-END-

Report Verified By



For Mitra S, K. Private Limited

Address of Laboratory :

Solump No. F- 46, Udayan Industrial Eulate. 3. Pagindangu Road, Kobinia 7080 to Wild Bendy Tel., +91 7044936120 Email udayantageminast.com







Scan for Portal

ULR: TC-6950240000001552F

DOC NO., MEXICENVISION

VESTING & MERECTION

Name & Address of Customer:

Tata Steel Ltd (MGM)_Jods West

AUPo. - Jode, Dist. - Keyrenar, Oceatra - 750034 Insta-

TEST REPORT

Report No. 1

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MBKPL/ED/2023-24/P114TD

05/09/2024

MERKHB/ED/2023-2M/HW91A2/k

11/01/2024

11/01/2024 - 02/02/2024

Permanual Faculty

3000158017/056, Date - 16/09/2023

Charmea

We have by certify that the following sample Drawn by its has been analyzed into the "Journey results

1. Group	Atrisoschianio Proliticari
Z. Description of sample	Amblent Air
3. Unique Identification of compiniti any	NA.
t. Dale of sampling	06/01/2024
E. Place of compling	Near Gangerguos Ph JWMM
8, Environmental conditions during eampling & Fransport	1) Temperature (12-96 deg C 2) Barometric Pressure: 734 mm of Fig 3) Rain fail No. 5 Celd Chain MagNatraer
7, Sampling Plan & Method used	ISSTRUP-II DI A USEPA
b. Identification of the personne purforming sampling by MEK	Fratik Kr Mantri Maik, Nizati Nr Setty
R. Field Equipments Used	MSN/UBUFIELD/RDS-A

Report No.; #SIFLIEU/2023-24/F1147D

Sample No.: MSKNB/ED/2023-24/01/W51A2X

RESULT

Chemidal					
Paramete:	UDW	Method	Limit	Result	
Arsenic as (As)	no/m3	USEPAJO 3 A June	E (Annual)	DDL(DL:1-0)	
Benzena	micro giminia	IS 5187 (Pad 11)		BDL(DL 4.2)	
Benzo(a)Pyrene	mg/m3	15 5192 (Part 12)		BDL(DL 0.8)	
Lead (as Pk.)	Linding orders	U95PA-JO-24, June		BOLDLIDE	
Mangannes as Me	mioro gm/m3	USEPA-10.3.4 June		0.42	
Nickel as Ni	ing/m2	DISEPA-IO 24, June		10.2	
	Arsenic as (As) Benzona Benzo(s)Pyrena Lead (a) Pa i Mangannes as Me	Arsenic as (As) noim3 Benzena micro gm/m3 Benzena micro gm/m3 Benzena micro gm/m3 Lead (as Pa I micro gm/m3 Mangames as Me micro gm/m3	Arsenic as (As) nolm3 LISEPA-JO 3.4 June Benzene micro gmim3 IS 5182 (Parl 11) Benzo(s)Pyrene mym3 IS 5182 (Parl 12) Lead (as Pa I micro gmim3 USEPA-JO 3.4, June Mangannes as Me micro gmim3 USEPA-JO 3.4, June	Arsenic as (As) noim3 USEPA-IO 3.4 June 8 (Annuel) Benzena micro gmim3 IS 5182 (Part 11) 6 (Annuel) Benzena ngym3 IS 5182 (Part 12) 1 (Annuel) Lead (as Pa.1 intero gmim3 USEPA-IO 3.4 June 1 (24 Hours) Mangannes as Me moro gmim3 USEPA-IO 3.4 June Nel Specified	

Ophnion ±

Limit as ner CPCB nelfication, New Dwitt, 18th Heremities 2000, toy Amount or quality

Statement of Conformity

- END -

Stevensed By

Signature

Dr. Devotare Sc

Davignation

Technically divings

Arthorated Signatory

The Test Report Used on the removal security has a sequence of Man 3.V. Present tended.

The Test Report Used on the removal except in Au. Annual top parameter of Man 3.V. Present tended.

The reserved part of the security for their and appears (Man - point after periods) in your page for page and for 15 days from the dolls or request the Test Report. Periods is sented at the manner 2 stars.

The research part of several free Tree Trees and the several free Trees and the Trees

Street Cours (50: Final) Tell. ALL D. Brace Room, Hollows - TROOM, Want South Brace Bell - 15:401 (60:00) (20:50:00) Fax: 61:30 22:60:00 From Armidion Francisco Visionical Indian Information of

Address of Branch :

P.O. Retol Dt Keongles: Onsas 756 035





Scoot for Person

Name & Address of Customer:

Tele Steel Lin (MGM) Jole Weel.

Al/Po. - John Diet - Keerster, Odester-758(1)4 India Ple

TEST REPORT

Report No. :

Date

Sample No. 1

Reference No. & Date :

43KGL/ED/2023-24/004463

10/02/72/024

MSKGL/ED/2023-24/01/00/001

1000156017/056, Dwie 16/09/2021

Are namely contry that the following unique Ensure by united book analyzed with the following results

1. Group	AIR
7. Description of sample	100
5. Unique identification of complete anyl	DS/DS/01.2024
t. Date of sampling	Joda Wesi Iran & Mn. Mines
	00/01/2024
I. Flace of sampling	Nate Copyrigatis Phythoday
Environmental conditions during complete & francisco	Door & Share
Sampling Plat & Malbert man	NA .

Report No.: MSKGL/ED/2023-24/004465

Sample No.: MSKGL/ED/2023-24/01/00428

RESULT

SI No.	Parameter	MON	Multimit	Traction .	9 2000
-1	Ammonia (NHS)	interes control		Limit	Result
X I		Joseph Blatter	15 5 Hi2 (Part 25)	400, 24 HR.	25.2
3	Corton Manoxide (CCI)	mg/m3	(5.5182 hun 10 18/0 (Kont 2014)	2.068	0.60
4	Mitrogen Tilloxide (NO2)	Environ provint	18 5162 Part 6 2006 (Realt, 2017) (III)	7.7.50	U.A.I
0	Ozone (O5)	Mining carin	The state of the s	49 24 HR	22.0
5	Particulate Matter (<10um)	The second second	IS 5182 (Part.9)	180 1 HIE	FDL/DL20
-		Office continua	13 5182 Phil 22 2000 Prenti 2012), (O)	100 21 HR	219
-	Pariculate Matter (<2.5cm)	man golde	18-5/82 (PT-24)(2019 (D)	60 24 HR	
1	Subtrer Tilosode (Sciti)	inan gried	16 5162 Port 3:2001 (Fuert, 2012) (10)	80 24 HB	7.3

- ENO-

Report Verilled By

For Mitra S. K. Private Limited

Address of Laboratory:

Suitating No. P. 46, Udayan Industrial Estate, 3. Paglacanga Road, Kowana 700015 What familed Tel: +91 7044038120 Ersalf udayanlah@mitraak.com







Scan for Portal

ULR: TC-695024000001653F

Doc No.: MEDICOENTRIST

Name & Address of Customer:

Tele Stee Ltd.(MGM) Jinde West

AVPo - John 1761 - Keonikar Culana - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(e) of performance:

Location of performance of

Reference No. & Date :

Discipling:

MSKPL/ED/2023-2A/G1147F

03/02/2004

MSKNB/ED/2023-24/01/271A4X

11/01/2024

11/01/2024 - 02/02/2024

Parmacient Family

3000156017/056, Date : 10/09/2073

Chemical

We hereby certify that the Jolgowing sample Drawn by on how been analyzed with the Authorize results.

1. Graup	Aimprohene Politices
2. Disscription of sample	Ambient Air
3. Unique (dentification of sample(if arry)	NA.
4. Date of sampling	08/01/2024
5, Place of sampling	Near H-Quarty Rest Shallor JWMM
5. Environmenta) conditions during sampling & Transport	Ty Temperature 12220 mg C a) Berometric Pressure: 734 mm of Hg 3) Ram to No & Cold Chain Maintained
7. Sampling Plan & Method used	(5.51E)(P.11,12) 8 ((5EP))
8. Identification of the personnel performing sampling by MSK	Pretix Kr Maintel Nail. Alcash Kr Sotty
9: Field Equipments Used	MSWBELFELDROS-2

Report No.: MSKPL/ED/2023-34/01147E

Sample No.: MSKNE/ED/0023-24/01/271A5X

RESULT

Chemical					
SI No.	Parameter	MOIL	Method	Limit	Result
1	Arsenic as (As)	Envlop	LISEPA IO 34, Juna	6 (Annual)	SIDL(DL-1.0)
2	Benzene	. Emiring-oranic	15:5182 (Part 11)	5 (Annual)	BOL/DL 4.25
3	Benzo(a)Pyrene	ng/m3	IS-5182 (Part 12)	1 (Annual)	BOLIOLIES
4	Lead (m Ph)	Intermigratin3	USEPAJO 3.4, June	1 (24 Hours)	0.01
1	Wanganase as Min	Cmicro grown	USEPA-IO 3.4 June	Net Specified	0,32
6	Nichel as Ni	Em/gn	USEPA-IO S.A. June	20 (Annual)	5.1

Opinion

Limit as per CPCB notification, New Dains, 18th Hermitian 2009, for Ambient or quality

Statement of Conformity

END.

PROTEST OF

Dightshird

Daming ou Dr. Duvolant Sarva

Dasgratóvi

Technical tri shops

Authorized Signatory

The reports relate only to the herest heres.

in the effect the permission of blick 5.%. Private Limited.

The manifest of expression to create an expension that - personal and the control of the control

The treatment part of complete the charmon community of Societ & Liquid Vision in the ten resemble to the days are per CPCB parament in the 1 owner to the fact of complete to the tenth of the Test Player.

The treatment part of complete to Microbiocomic conducts (first parameter) for Microb

Structure Court Reput 748, 43 C. House Road, Robust - Tricons, New York, Tell 14, 274(14300) (238800)(748.00) 91 28 (2386008) integrances core Wideld in www.indicess.com

Page Toff

Address of Brauch:

P.O. Bartis Di Keccamar Cirises 734 DRS





Sean for Ports

Name & Address of Customer:

Tom Shoul Litt (MGM) Joon West

AtiPo Jode, Dell. - Neuroper, Odishe - 758)34 Inde Pin

TEST REPORT

Report No.

Date !

Contract to

Sample No.:

Reference No. & Date :

M5KGL/ED/2023-24/084459

IOVURDATEM

MSKGLED/2025-24/01/09429

300015ii017/05ii. Dale - 15/05/2021

We hereby certify that the inflowing sample Dawin by its law been analyzed with the following results.

1. Group	AR
2. Description of sample	Ambient Air
3. Historia Identification of surepince any)	Juda West trait Mr. Alterna
4. Date of sempling	00/01/2004
5. Plans of sampling	Near M.O. comp Flore Stratus Joseph
Environmental conditions during Lawreling & Transport 7 September Plan & Matterd Ward	Clarke & 15 mby
C 23 (Hoteld Print & Matthey) Used	NA-

Report No.: MSKGL/ED/2023-24/004450

Sample No. : MSKGLIED/2023-24/01/00429

RESULT

SING.	Parameter	UOM	Matheat	Limit	Result
1	Ammania (MH3)	mon gri/rid	15 5182 (Part 25)	400 74 HR.	2777
2	Gamon Mosoxide (CO)	mp/m2	15 5182 - Paul 50 : 1980 (Rouff, 2914)	2, BHM	0.49
4	Nitrogen Diaxide (NDZ)	minu gnina	IS 5182 : Part 6 200e (Roaft 2012) (D)	80 24 HR	26.0
4	District (C3)	Emitty grains	© 5182 (Pat 9)	180 1 HR	BOL(DL-26.0
1	Participate Mater (<10est)	pricos conocia	(\$ 5162 Part 21/2006 (Ravil 2012) (D)	100.04.66	
- 1	Paracuste Melter (<2,5um)	Crimy ordin	IS 5182 (PT-24),2019. (O)	60.24 HR	230
7 1	Suhmir brooksi (802)	nesquina /	55 5162 : Piol Z :2001 (Fount 2012) - (0)	80 24 HR	85

- CMD -

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 48, Mayan Industrial Estate, 3. Payladanga Risari, Kolkara 700016 Wood Bangat

Tal - +91 7044036120 Emes, udayantab@mitrask.com







Disc No. MINISCENSION

Epan for Portal

ULR: 10-695024000001658F

Name & Address of Customer :

Tata Sieer Ltd.(MGM): Joda West

nWPo - Jode, Citel - Keonjaar, Odena - 708034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSAPUED/2023-24/S114ED

03/02/0094

MBKNB/EDI2023-24/01/R6\$A60

12/01/2024

T2/01/2024 - 02/02/2024

Permanent Facety

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by un has been amounted with the tollowing results:

1. Group	Almoselwic Pollution
2. Description of sample	Ambient Air
2. Unique (denthication of sample(If any)	NA NA
A Date of sampling	09/01/2024
6. Place of sampling	Nosr H-Clustry Rest Shellor JWIMM
6. Environmental conditions during sampling & Transport	Time painting (14-37 deg C 2) Baroniotric Pressure: 134 mm of Hg 3) Rain to No. & Cold Chain Maintained
7. Sampling Plan & Method used	ID:STIQ(F-11, IZ) & USEPA
8. Idealfication of the personnal performing sampling by MSK	Latn Mail: Aliash Kumar Salty, Pratil: Kr. Mantri
9. Field Egolpments Daud	ANSKRIBLINELDRUS-Z

Report No.: MSKPLED/2023-24/5114ED

Sample No.: MSKNR/ED/2023-24/01/R61A60

RESULT

Hemical					
SI.No.	Parametel	UDM	Method	Limit	Result
1	Amenic as (As)	Emign	USEPAJO 34, Junu	& (Annual)	BOL(DLH II)
2	Benzene	micro gm/m3	S 5182 (Part 11)	5 (Annual)	BOL(DL/4-2)
3	Barono(a)Pyrene	ing/m3	S 5182 (Part 19)	1. (Annual)	BDL(01.0.5)
A	Landjus Pb J	micro-gintm3	USEPA-JD 3.4, June	1 (24 Hours)	0.00
fi	Manganese as Mr.	Criting orașin	USEPA ID 3:4: June	Not Specified	0.18
6	Nickel as NI	eng/m3	USEPA-IO 3/A. June	20 (Amnual)	20.8

Opinion.

Limit on par GPCR millioution. New Delni, 18th Newsysteer 2000, for Ambient on gooding

Statement of Contornity NA

END -

Hoyspeed By

Survivo.

HIRTH

Designation Technical in charge

Authorizant Signatory

Like In Holes

Tp/Soummen

The mention related only to the internal healest.

the find region or ships de represented ensure in tal, nations the perhansion of Ratio S. C. Propositioned.

The responding of party local hy chestical analysis (Not in percentage surgery) Foot Wester plan borotomed for 15 days from the dawn of success Report. Percentage surgery) and be entered 2 dawn from the date of success from the Teat Report.

annual control of a control of a control of a control of the A Layet Wyann and be proceed to 15 story as an EQC for the man for the form the date of facility of the Tool Report of Annual of the Control of Annual of the Control of Annual of the Control of Annual of A

Heled Office:

Married Corporational Forms 780, A.J.C. Barrielloug, Redring - Tilleton, Value Surgel, India THE 19T ST 40 ALEXCHO / THE HOUSE FIRST BY ST 13 THE STATE OF

Address of Branch:

P.O. Bartal DI Kaondjer Orissa 758 fcm

Name & Address of Customer :

Tota Sleet Link (MCSM), Joda West.





Sens for Beauty

TEST REPORT

Reference No. & Date:

Report No :

MMKGL/ED/2023-24/004467

Data .

10/02/2024

Apple - Jode Det - Neoghar, Odisha - 758034 hida Pin Sample No. :

or occupant

MSKGL/ED/2028-24/01/00/94

3/1001 55/17/056. Quin - 15/09/2023

We havely centry that the following assigne Drawn by is has been energed with the following rooms:

1. Group	AIR	
L. Crescription of Sample	Ampiort Air	_
1. Unique Mentification of pample III any	Jirda West Ivan & Mn. Minus	
A Date of sampling	09/01/2024	
E. Prace of earnpling	Moor H Casing Time Shore Jerreta	
R Environment conditions during sampling & Transport	Clea & Surry	
7. Sampling Plan & Method used	/ NA	

Report No.: MSKGLED/2823-34/034487

Sample No.: MSKGL/ED/2023-24/01/00/34

RESULT

Bi No.	Porometor	UDM	Mesting	Limit	Result
4	Anvenin (MHS)	micro grates	IS 5142 (Part 25)	400 24 HR	18.6
3	Carbon Monosate (CD)	mgm3	85-51Hz : Fart 10 (1997 (Resalt 2014) (MORE) (D)	1 8HR	100
3	Nitrogen Diccies (NC2)	nion grins.	(5 5182 - Pen ti :2006 (Reaft 2012) _(0)	MD 24 HR	28.5
4	(Atone (C3)	more gerima	IS 5182 (Part 3)	180.1 HiR.	BOL/DL-20//
5	Paniculain Matter (*10am)	mioro greimă	G-5152 Pint 23:2000 (Read: 20:21 (O)	100 34 (49	397
b.	Particulate Matter (<2.5um).	micro grivin3	IS-5162 (P1-24),2010 (O)	60 24 HR	1
7	Sukmur Diminio (SO2)	Coring craim	(5 s) (5' Par 2 2001 (Real(2012) (0)	8024 HR	7.5

-END-

Report Varified By

Huad Office



For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P.-48, Urlayan Inclusional Estate: T. Pagestange Road, Kolkma 700015 West bengal

Tal. +91 7044038120

Errail udavantab@mitresic.com

Tala Binni Lid (MGM) Joda West

At/Po - Joda, Dist - Keonjher, Odlehe - 758034 Indie







Scan for Portal

ULR: TC-6950240000016571

DISCHARMANIAN MENOREN MARKET

TESTING # # BPEDIO

TEST REPORT

Name & Address of Customer: Report No. :

Date :

Sample No.

Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MISKIPL/EDV2023-24/N1140...

03/02/2024

MSKNE/ED/2023-24/01/PX1A34

12/01/2024

12/01/2024 - 02/02/2024

Permanent Faculty

3000156017/056, Cale - 16/09/2023

Chemical

We hereby certify that the following sample Dissert by us has been analyzed with the infowing mounts

1. Group	Altrosoneric Polition
2. Description of sample	Ambient Air
3. Unique (dentification of samplo(ii any)	NA .
4. Date of sampling	09/01/2024
5. Place of sampling	Near Gangesques Pit JANMM
5. Environmental conditions studing sampling & Transport	1) Temperature 11-27 deg C 2) Baromoine Pressure: 734 mm of Hig 3) Rain Is No 5 Cold Chain Maintained
7. Sampling Plan & Method used	IS-61R2(P-11.12) & USEPA
II. Identification of the personnel performing eampling by MSK	Ealin Nuis, AlSach Kurrer Selly, Pratik Kr. Mantri
9. Field Equipments Used	MSKIBELIFIELD/FDS-4

MSI/PUED/2023-24/N114C/L Report No. :

Sample No.: MSKNB/ED/2023/24/01/PX1A34

RESULT

Chemical					
51 No.	Parameter	UOM	Method	Limit	Fissutt
1	Arsanic an (As)	rg/w/3	USEPA40 3.4, June	5 (Annual)	BOU(DL 9.0)
2	Renzene	miero gm/m3	(S 5182 (Parl 11)	5 (Artrual)	BDL(DL/4.2)
3	Benzo(a)Pyrane	Emigro	IS 5182 (Pad 12)	1 (Annual)	8DU(DL:0.5)
4	Land (so Ph.)	miero gm/mil	USEPAJO LA LINA	1_(24 Hours)	10.0
5	Mangaisese as Mn	micro gm/m3	DISEPANO 3.4: June	Not Specified	0.24
0	Hidrel on Ni	mp/m3.	DISEPANO 3.4 June	20 (Annual)	5.3

Opinson.

Limit as per OPDS notification; New Delhi, 18th Florenter 2009, for Ambiental quality

Statement of Conformity

ENO -

Immoved by:

Styrmen

Designation

be Maney Or Deviction Bar

Technical in marga

Authorized Signatury

Signature

Designation (Lab in Image

The reside intelerance is the purph resident.
The Test Report that not record and according to the Webside Interested Afres S.K. Provint Larger to the Control of the Test Report. Personable semicion of the Test Report. Personable semicion of the resident of the Test Report.

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The reserved part of complete the CHCR pulsation is a facility of the CHCR pulsation & JACLE open from the date of base of base of the red Report The reserved part of complete in Alexandronica analysis (Non-construction an



P.O. Bench St Knowner Cress 705 (29)

Name & Address of Customer:





TEST REPORT

Report No. :

MSKGL/FD/00023-24/004468

Tale almet (MIGM) Jude West

Date:

10/09/2020

AVPu. - Jode, Dist. - Keonihor, Odelna - 758034 India Pin

Sample No. :

MBKCL/FD/2023-24/01/00483

Reference No. & Date:

3800156017/856, Dele + 15/99/2023

We neverly certify the the following switch Drawn by as has been analyzed with the knowing results.

1. Group	AIR
2. Description of sample	Antian Al
Unique identification of sample(if any)	John Weitt troff Mr. Miles
4. Date of sumpling	09(01/2024
J. Place of establish	Maar Cargolysta Pt Wildli
0. Environmental conditions doming a impany & Transport	Clay & Finns
7. Sampling Plan & Mothod used	nut.

Report No.: MISKULED/2023-24/004458

Sample No. : MSKGL/ED/2023-24/01/00437

RESULT

Sino.	Parameter	DOM:	Method	Limit	Result
1	Ammerica (NH3)	mkara grivno	S 6392 (PIN 25)	400 ZA HR.	187
2	Carbon Microside (CC)	Enlant	55 5102. Part 10 (1999 (West 2014) (NDIR) (O)	2 BHR	tida
3	Nibrogan Elemento (NOS)	mora genira	IS 5182 PArt 5 :2006 (RissH 2012) (O)	80 34 HF.	22.7
4	Ozores (CO)	Cn/mg opim	(B5182 (Pat 9)	180 T HR.	BOL(DL:20.0)
5	Particulate Minter (<10um)	Minima province	15 5182 Part 23 2500 (North, 2012), (O)	100 24 HR.	158
B B	Pasticulare Motter (<2.5um)	minogenhi3	IS S182 (FT-24),2019 (O)	80.24 HR	-05
7	Suprier Diexido (SO2)	Enterly craim	15 5182 Part 2 2801 (Reaff 2012) (0)	80.24 HR.	1.0

- END

Report Verified By



For Mitra S. K. Private Limited

Address of Laboratory:

Suitang No. P. 48, Udayun Industrial Estate, 3, Pagladanga Rosel, Kokata 700015 even Design! Tel. +91.7044036120 Email: ucayanles@mtrask.com







Doc No. MERCHEW WATER



ULFI: TC-695024000001658F

TEST REPORT

Name & Address of Customer:

Tata Steel Litt (MGM)_Joda West

AVPo - Jirla Llist - Koonjear, Delsna - 758634 Inna

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(a) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/T1MAL

03/02/2024

MISKNE/ED/2023-24/01/WRIASE

12/01/2024

12/01/2024 - 02/02/2024

Permanent Facility

3000158017/066, Dale - 16/09/2003

Contract

Was hambly comfu that the listensing earphic brawn by us has been analyzed with the historing mouth.

1, Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(if any)	NA .		
4. Date of sampling	09/01/2024		
5. Place of sampfing	Near Di-Quarry Sorang Lara JyVMMI		
6. Environmental conditions during sampling & Transport	Temperature :11-27 dog C 2) Baromotric Pressure: 734 min of Hig 3) Rain for this & Corr (Znain Meinteined)		
7. Sampling Plan & Matered used	18:5182(P-YT_12) & USEPA		
6. Identification of the personnel performing sampling by MSK	Lakin Naik, Alkauh Kumur Setty, Pratis Kr. Mantis		
9. Fleid Equipments Gold	MRK/BBL/FIELD/RGR-5		

MSKPL/ED/2023-24/T114AU Report No. :

Sample No.: MSKNB/ED/2023-24/01/NB/ABR

RESULT

hemicai						
51 No.	Parameter	UOM	Method	Limit	Result	
1	Arsenicas (As)	10/10/3	USEPA-IO 3.4, June	5 (Annual)	BDL(DL'1:0)	
2	Benzene	En/mp croim	(S 5182 (Part 11)	5 (Annual)	BOLIDE 4.7)	
3	Banzo(a)Pyrene	ng/m3	(S.5182 (Part 12)	(Annual)	EDUDL0.5)	
4.	Load (so Pb)	mieno ganlardi	USBRAJO 1 A June	1 (24 Hours)	BOLDLID (0.01)	
5	Mariganias sa Mri	Emlang-malmi	USEPA IO 3.4: June	Not Specified	80,0	
. 8	Nickel as Ni	ng/m3	USEPA-10 3.4, Juna	20 (Annual)	BOL(DL 5 b)	

Opinion .

Limit as per CPCB nelification, New Cultil, 18th November 2008, for Antheol St. quality

Statement of Conformity

END:

Washined By:

D House as Dr. Dewitten Ben

Technical In charp

AUTORISH SQUARY

Dispositure

Dougramon

Life in deaper

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Address of Branch:

P () Borbs DI Kaonifest Driese 758-035

Name & Address of Customer

AliPo. - Joda. Dist. - Kasryhur, Odisha - 759034. India Pin

THY Sket Ltd /MGM), Joda Wint





Som for Partai

TEST REPORT

Report No. :

HSKGL/FD/2023-24004467

Dain:

(0/02/2024

Sample No.:

MSKQL/ED/2023-24/01/00/52

Reference No. & Date: #0001000177000, Date: 15/00/2028

We hereby certify that the following sample Direct by as has been analyzed with the following results:

1. Group	AR	
7. Description of sample	Ambient Air	
3. Unique Identification of comple(if any)	Jode West from & Mr. Minos	
4. Date of samulary	09010024	
5. Place of sampling	Nitrir D-Quarry Surring Yorg Joynay	
G. Environmental constitutes during sampling & Transport	Clear & Surviv	
. Sampling Plants Method and	THA .	

Report No. 1 MSKCIL/ED/2023-24/06/460

Sample No.: MSKGL/ED/2923-24/01/00432

RESULT

Analysis Result of Ambient Air						
31 No.	Facunitier	- UOM:	Mathrid	Limit	Rusuli	
1	Ammonia (WHO)	iniau grania	15 0 (62 (Part 25)	400 24 HR.	14.0	
.2	Carbon férmovide (CO)	mama	18 5182 First 10 (1909 (Huntt, 2014) ING/R1 (O)	2 BHR	0.16	
3	Managen Dioxide (AOZ)	Enlung crass	(S-5182 : Part 6 : 2006 (Rush 2012) _(0)	80/24 FFL	26.8	
4	Chrone (COA)	triking paring	(B 5 162 (Part 1)	180 1 HFL	/ BDL/DL:20/0	
5	Particulare Mather (<10um)	throng grown	IIS JUTES: Prof 290006 (Rindly 2012), (O)	100 24 HR	2017	
.0	Parlimian Martin (<2,5km)	micro emints	15 5182 (PT 24), 2019 (CI)	50 24 HTL	100	
7	Sulphur Diowne (802)	Erriging group	IS \$162 : Part 1 :2001 (Parel 2012) (O)	00:24 HFL	7.2	

-00-

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Address of Laboratory :

Building No. P. 45, Utbyan Industrial Estate, 3, Ragladings Hous, Kellous 7000vs Wast Bangal

Tel: +81.70M038120 Emerif udayanlıb@mimik com







DUE NO. MERSON/MAY

Scon for Portal

ULR: TG-695024000001655F

Name & Address of Customer :

Tata Steel Ltq.(MGM), Jada West

AMFO - Jude, Diet: - Frenzister, Openie - 758034 Indie.

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/EDVID23-24/51147Y

03/03/2024

MSKNB/ED/2023-24/01/811/463

12/01/7/024

12/01/2024 - 02/02/2024

Permanent Facility

3000166017/IJ96 Date - 16/09/2023

(Inemical)

We belieby certify that the following aumain Dieser by unless bean analyzed with the following race in:

1. Group	Almogeneric Pollution		
2. Description of sample	Ambient Air		
Unique Identification of sample(if any)	NA.		
4. Date of sampling	09/01/2024		
2. Place of sampling	Near Railway Stong JWIMM.		
0. Environmental conditions during semaling & Transport	1) Temperature: 15 27 day C 2) Basoniotric Pressure: 734 mm of hig 3) Rain tallion & Cold Chain Maintaines		
7. Sampling Plan & Method useti	S-5182(F-11,12) & USERV		
II. Identification of the personnel performing sampling by MSK	Lafri Nisti, Alkash Viornar Setty, Pretik Kr. Mantri		
9. Floki Equipments Used	MEMBELINELDIROS:		

Report No.: MSKFL/ED/2023-24/511/7Y

Sample No. 4 MSKNB/ED/2023-24/01/811A43

RESULT

Strennical						
SI No.	Parameter	NON	Melhod	Limit	Result	
1	Amenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL (DL L m)	
2	Senzane	micro gravniš	(S-5182 (Part 11)	5 (Admual)	BDL(DL(4.2)	
3	Bertzo(a)Pyrenia	ing/in3	15 5182 (Part 13)	1 (Arinust)	BOL(D):0.5)	
A	Last (as Pit)	miem gm/m3	LISEPA-ID 9.4, June	1 (24 Hours)	0.01	
5	Mangarese as Mn	Em/mg araim-	LISEPA-ID 3 /t: June	Not Specified	0.50	
6	Midfall us No	110/1113	LISEPA-IO S.A. June	29 (Annual)	7.3	

Opinion:

Limit on pay CPCR pathonism, New Daha, 18th Hovembay 2000, for Amorera of guerry.

Statument of Conformity MA

END -

Browning! We

Vignesa Name

James A & Dr Deviction Bandjoe

Designation Technical to charge

Authorizate Signatury.

Talk in othergo

The results leadle only to the Remost leatest

Then Total Total and the representative requirement to the members of the S.K. Provincial reservance.

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The reserved part of services of the ofference of the part of the

Princip Co. 1 (St. Prior), Feb. A. J.C. Base Blood, Notice - 715 and Visual Bases Notice - 64 (2) 4014(2)(2)(2)(5)(6)(7) and 301(2)(3)(5)(6)(6)

Short Unique Co. 1 (Million Co. 1) (Million Co. 1) Hood Office:

Address of Branch :

P.O. Barbil Di Kacillian Orisso 758 035

Name & Address of Customer :

AMPo. - Joda, Dist. - Keonjher, Odeho - 758034 India Pin

7 ptg-Steel Ltd.;MGMI, Jüde West





Scan her Parmi.

TEST REPORT

Report No :

Date:

MRKGL/ED/2023 24/904465

THURSDZ4

Sample No. :

MIRCL/ED/2023-24/05/00/51

Reference No. & Date !

TEXR156017/056, Data -18/09/2025

We harnly certify that the following sample Diction by us has baselyzed with the following returns

1. Group	AIR	
I. Description of semple	Arrisent Air	
1, Unique Menification of supposit any	Joda Weid Irre & Mr. Mines	
4. Date of compling	09/01/024	
f. Place of Lamping	Name Pathing Skiling 19988A	
Experimental conditions during sumpling & Transport	Conv & Southy	
7. Sampling Plan & Method ased	MA	

Report No.: MSKGL/ED/2023-24/004465

Sample No.: MSKGLJEDIGOZ3-24/01/00431

RESULT

III Ho.	Parameter	HOME	Marina	Limit	Result
-1	Arrenams (Pers)	micro grided	05 S162 (Pw(25)	400 24 HR.	19.9
3	Carbon Microxida (QQ)	entition()	(5 54(a) Park VI (1969 (Rend 2014) (REVIR) (D)	2 JHR.	0.45
1	Manger Dicease (NO2)	(more grades)	IS 5/82 Part 5 2006 (Resti. 2012) (U)	80 24 HR	30.2
4	Ozona (O3)	man grand	(\$ 5182 (Part 9)	180 1 MR	BDI (DL-207/
5	Particuline Matter (<10um)	friend grains	(S 5182: Part 23/2006 (Result, 2012): (D)	400 24 vet	225
0	Particulate Moller (42,5um)	Zimpg grain	IS 5192 (PT-24),2019 (O)	60 24 HR	111
7	Eventur Classin (SO2)	Valita grama	15 h162 Plet 2 2001 (Real(2012) (0)	80 24 HR	7.8

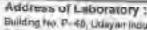
END.

Report Verified By

For Mitra S. K. Private Limited

DUCKER MERICENINGS





Building No. P. 48, Udayan Industrial Estate, 3. Pagilistang= Road, Kokata 7000+1, Wast Brings

Tel. :+91 7044038120

Emai: udayanlob@milmak.cam





Scan for Portel

ULR: TC-895624000001854E

Name & Address of Customer:

Title Steel List (N/GM)_Jode West

AbPo. - Ande Diet - Xrinnihar, Odlaha 75803+ Initia

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/J114/6

ASOS/SDIA

M5KNB/ED/2023-24/01/2JI A2H

12/01/2024

12/01/2024 - 02/02/2024

Demunent Facility

3000198017/058, Date - 16/09/2023

Chemicst

We hereby centry that the following sample Drawn by us has been whatveed with the following results

1. Greup	
2. Description or sample	Amiospheric Pollutium
3. Unique Internit cation of sample(if any)	Ambieni Ale
A Date of sampling	NA.
5, Place of compling	09/01/2024
	Near Time Office JWMM
6. Environmental conditions during sampling 6. Intersport	1) Temporature 11-27 aug C 2) Barametric Pressure: 734 mm of Ha TV Residual
7: Sampling Plan & Method used	TWALKS COME TO SEE THE SECOND
I Identification of the personnel performing sampling by MSK	15:61 (M/F-11/12) & USEPA
9. Field Equipments Used	Latin Nelk, Alfash Kumur Sesty, Prebk Kr. Mentili
The state of the s	MEGBEL/PIELO/RDS-3

Report No. - MSIP DE0/7023-24/J11478

Sample No.: MSKNB/ED/2023-24/01/211A2H

RESULT

SI No.	Parameter	UQM	Method	Limit	Result
4	Anenic as (As)	ng/m3	USEPA40 3.4 Aline	G (Annual)	
2.	Bonzene	micro gmws3	15 5182 (Part 11)	5 (Arnual)	BDUDLTIO
3	Banzo(a)Pyrene	700/m3	IS 5182 (Port 12)		BOLDL:4.71
4	Lead (as Pb.)	Enlarg graim	LIBERALIO (LA, June)	T (Annual)	BDL(DL:0.5)
8	Manganese as Mn	Emirro grafm3	USEPA-IO-3.4/June	1 (24 Hours)	BDL(DL:0.01)
5	Nickél as Ni	town3		Not Specified	0.29
pinion :		23 notification, New Date	USEPA-IO 3.1, June 1. Mili Housember 2000, jor join	20 (Angual)	BDL(DL(B,0)

Statement of Conformery

END -

Playmend by

Signame

Dramen Or Devottate Bar

Desgrather

Technique In chap

Aveninged Signatory

Chesanosar

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The remarked part of serged in the contract of the contract of

Peretr Corns Cid Floor, 748, A J C Base Rose, Kr.Aute -750618, West during Asso. Feb. (81.25-4014):001.2560007 Feb. (81.25-2000008) THE PERSONAL AND VICTOR OF THE REAL COST

Address of Branch:

P.O. Barbii Dt Kumper Oriena 758 035





Name & Address of Customer:

Title Stimi Lip. MGM: Jody West

As/Po - Joda Dist: - Keenfrer, Odshe - 758034 Imile Pin

TEST REPORT

Report No. :

Date :

Sample No. 1

Reference No. & Date :

MSKGL/EDIZUZS-24/DOMAS2

1040(3/3/094)

MSKGL/ED/2023-24/01/01/430

3000156917/056; Date - 15/03/2023

We decistly county that the following sample Drawn by us less leven assayzed with the following results:

1. Group	AIR
2. Pesscription of sample	Amblent Air
3. Unique Hertification of sample (fixey)	JOSE West Iron & Mr. Mines
4. Date of sampling	09010024
5. Place of sampling	Near Time Office IVINA
5. Environmental conditions during termpling & Transport	Clear & Guerra
7. Energling Plan I Melled used	NA .

Report No.: MGKGL/ED/2023-24/004402

Sample No.: MSKGL/ED/2023-04/01/00490

RESULT

Analysis Result of Ambient Air						
Silko.	Parameter	non	Michigan	Cimit	Result	
1	Attimonia (1613)	micro gravica	\$ 6/82* (Part 26)	410 24 HR.	17.2	
1	Camen Menoxide (CO)	En/on	(NDR) (N)	2 1141	0-00	
1	Nitrogós Dioxide (NO2)	micm groups	(\$ 5182 Part 6 2006 (Realt 2012) - (0)	80 24 HR.	75.5	
4	Director (CES)	muro grand	IS 5 (82 (Part 5)	180 1 Hrs	BDUB :20.0	
1	Parvacidate Matter (<10um)	Driving arolin	15 HUS Part 23 2005 (Runn 2012) (O)	100 24 HR	191	
ti-	Parsiculate Matter (<2.5um)	micro gravero	IS 5182 (FT-28),2019 (D)	60 24 HR.	160	
7 8	Surpriu broade (502)	man gm/m3	5 5192 Part 2 200 (Feat 2010) (D)	80 24 HR.	7.6	

END.

Roport Verified By



For Mitra S. K. Private Limited

Authorised Signatory

Chronia Carpe (Mirthur), M.D. A.J.C. Com Huro, Kolono -100005, West Dermal Archite. 19 30-40 (1900). 2 proposed Paul 31 51 27 (2000).

Annel 1950 (Wildelman / Zarrasko) Paul 31 51 27 (2000). Huad Office!

Page 1 of f

Address of Laboratory

Building No. P. 46, Udayan Industrial Essaig. 3. Pagimbanga Road, Kollina /100/15. West Imagel

Tel. : +91 7644038120 Emili ultayankaq@mirask.oom







Scen for Portal

ULR: TC-895024000001725

DOC HILL MESSAGEMENTS

Name & Address of Customer :

Tara Steel Ltd.(MGM) Local West

MIPO - Jour Dist - Heuripay Crosns - 758034 Indie

TEST REPORT

Report No. 5 Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/G1207G

05/02/2024

MSKNB/SD/0023-2A/D1/WEX4RM

15/01/2024

18/01/2024 - 05/09/2024

Permanent Fatter.

A000156017/058, Date - 19/09/2023

Chemical

We harbly certify that the following cause Craws by in has been analyzed with the following results:

t. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
2. Unique Identification of sample(if any)	NA .
Does of samping	15/01/2024
5 Place of warmpling	NEAR TIME OFFICE - JWMM
Environmental conditions during ampling & Transport	 Tentucrature 10:26 dag C 2) Eurometric Pressure: 733 mm of Hg 3) Rein tel No. A. Gost Christ Mandaired
7. Sampling Plan & Method used	(6.5142(P-11,12) & USEFA
f. dentification of the personnal performing sampling by MSK	PRATIK KUMAR MANTEL LALIN KUMAR NAIK
2. Field Equipments Used	MSNRBLFIELDRDSJ

MSKPL/ED/2023-24/G1207Q Report No. :

Sample No.: MSKNB/ED/2023-24/01/WE24BM

RESULT

Dhemical					
Si No.	Panimater	NON	Method	Limit	Result
1	Atsenio as (As)	rig/m3	USERA-IO 3.4, June	6 (Annual)	B0L(DL1.0)
2	Beszene	mitm gruim3	IS 5182 (Part 11)	5 (Annual)	BOUDLME
3	Benzn(a)Pyreno	ng/m3	(5.9182 (Park 12)	1 (Annual)	BOLIDLIDE
'A	Land (as Pb.)	mateo gre/m3	LISEPA-10 2.4, Auna	1 (24 Hours)	0.05
Dr.	Manganesa as Mn	miero gre/m3	USEPA-IO 3.4: Jam	Not Specified	033
6	(ficke) as (II)	ng/m0	LISEPA-ID 3.4, June	20 (Annual)	1 54

Optolen :

Limit as pur CPCS multiration, from Denil, 19th November 2009, for Ambers 24 quality

Statement of Conformity

END -

PERMIT BY

Signatura

Disagration Techniquiti sharps

Authorized Signator

The female related body to the drawit in control

Date Test Report of all real intersperchase in accomply his entired interpressures of Miles S. K. Polisian Landous

The manager of part of servicing to district some on (Wor) and each portoxical proof. Water) and be received for 1) does from the plant of tree test Report. Portoxical securities, strail be received 2 does the part of the part of the Test Report.

The remarked daily of subspace of the officers programmed if i.e., and it is used to remark the opposite for the control of the third of the control of the

THE ST 4314 (400 DATE WHITE WAY IN A 2004) SUPERIOR COUNTY WAS BEING BY A 2004 (14 2004) A

Address of Branch :

P.D. Berta D. Karniter Cress 758 035





Seats, Inc. Parried

Name & Address of Customer:

Tista Steel Ltd (MGM) Josta West

AAP's, Joda, Dist. - Reorfree, Udwire - 756034 Ardin Pet

TEST REPORT

Report No. :

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/(04486)

INCUSTS/

MSKGLEOG023-94/01/00000

5000156017. Date - 29/09/2023

We surely correly that the billowing except Dissert by us has been implyzed with the following country

1. Group	AR
E. Duscription of sample	Ambient Air
1. Uniq so telentification of sumpine any	Juda West Intil 6 Mr. Mine:
4. Date of sampling	15/01/2024
5. Place of Lamping	New Time Office (Water)
C. Environmental conditions number complete & Transport 7. Samples: Plan & Method oses	Clarif & Surray
V. Wallacing Links Westing 6466	Nz

Report No.: MSKQL/ED/2023-24/504466

Sample No.: MSKGL/EDQ023-24/01/00589

RESULT

5l.Na	Darmenobec	HOW	Midned	Limit	No. on
1	Amaionia (NHC)	micro grotes).	18 5102 (Part 15)	90) 24 HR.	Result
2	Cambon Monoxide (CO)	mg/m3	15 6192 / Ped: 10 (1993 (Real) (2014)	2 BHR	12,5
A	(Altrogen Glowide (NO2)	man gn/m3	\$3162 Part 0 2006 (Real 2012) (3)	90 04 HR:	212
*	Chine (C3)	ndus grend	(\$51(62 (Part ii)	180 1 100	BDI (D) 20.0
n .	Participate Matter (<10um)	mure grand	(S.5162: Part 25.000 (Paulit 2012) (D)	100-24 PR	240
T	Particulate Matter (<2.5um) Indignus Dissola (802)	Enviro assim	-IS-5682 (PT-24),2019_(0))S-5160 : Pars = 2001 (Resift,2012)_(0)	60 24 HR 80 24 HR	193

-ENO-

Report Verified By



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P- 45, Udayan Industrial Estate-3, Pagindanga Roser, Kolkata 700015 What Dength Tel -+91.7044036120

Name & Address of Customer

AVPo - Inda Dist - Keanjhar, Odeka - 758034 India

Tata Start Ltd (MGM)_Jode West

Еття испустивой плинак орга







Scan for Portal

DLR: TC-896024000001720F

DOO NO. MORIOEWING

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date

Discipline:

MSKPL/ED/2023-24/AV1205J 05/02/2024

MSKNB/ED/2029-24/01/4G3/IIILI

18/01/2024

18/01/2024 - 05/02/2024

Permanani Pacility

3000156017/068, Oste - 16/09/2023

Chemical

We havely excitly that the following sample Drawn by us into lower analysis with the following waste.

L. Group	Almersphanis Politician
2. Description of aample	Ambient Air
I, Unique identification of samper(if any)	NA .
I. Date of sampling	15/01/2024
5, Place of sampling	NEAR RAILWAY SIDING - JAMM
Environmental conditions during sampling & Transport	 Temperature 10.06 (any C 2) Sarometric Pressure: 733 mm of trig 3) Rain tell We & Cold Chair Maintained.
7. Sampling Plan & Method used	(6:5182(P-11.12) & USEPA
2. Identification of the personnel performing sampling by MSIC	PRATIK KLIMAR MANTRI, LALIN KLIMAR NAIK
2. Field Equipments Used	MSK/BBJ/FIELD/RDS-3

Report No.: MSKPL/ED/2023-24/W1205J

Sample No.: MSKNB/ED/2023-24/01/4G246U

RESULT

Chemical					
5) No.	Perameter	LIOM	Method	Limit	Result
7	Areenic as (As)	ng/m3	USERA IO 1.4, June	8. (Annual)	BDL(DL:1.0)
2	Benzone	Enlying grown	LB:6182 (Pwil-11)	5 (Annual)	BDL(DL:4.2)
3	Benzo(a)Pyrene	infinite.	US 6 VB2 (Field 12)	1 (Annesi)	EDL(DL:0.5)
A	Load (se Pb.)	micro graina	USEPANO SA, June	7 (24 Hours) -	0.02
5	Manganoto as Mn	miaro gravmii	LISSPANO 24 June	Not Specified	0.57
6	Nictral as Ni	Em/gn	LISEPA-IO 1.4, June	20 (Annual)	10.3

Opinion :

Link as per GPGb northeston, New Dev., 10th Hyreniber 2009 for normal in quality.

Statement of Conformity

END.

Reviewed By:

Designation Examine Charries

Authorized Signatory

The residence residency is the Neighbourse except in fail. Well of provisions of Male S. R. Provisions of the Total Report (residence of the Total Report Personal Residence of the Total Report. Personal and the residence of the Total Report.

The recorded act of search by Mile Selfogors (See July 1997) to Mile Selfogors is all your (Tree Juper) to See July 1997 (Tree Juper) to Mile Selfogors is all your (Tree Juper) to Mile Selfogors is a

Shrwite Certre (Mr Floor), 746, A J.C. Boar Road, Feb. (1985), White Amigual Indiana (No. 404-400) (1985) (1971) Feb. (1720) (1985) (1971)

Error infalls neight cort Website West in Krist, cont.

Page 1 015

Address of Branch:

P.O. Burty Of Koonihar Oniose 758 035





Name & Address of Customer

Tota Stani Lini (MSM), Jose West

ANPa - Asta, Delt. - Knorijner, Udsha - 758004 (reta Pin

TEST REPORT

Reference No. & Date :

Report No. : Date:

Sample No. :

MBKGL/ED/2023-24/004493

10/02/2024

MBKGUED/2823-24/01/066/4

3000156017, Date +20/08/2023

We hareby carefy that the following teample Drewn by us has peen

1. Grang	AR	
E. Descripsion of sample	Anthent Ar	_
1. Unique identificación of strepholit em)	Juda Wnet free & Mrs. Moses	_
4. Date of sampling	19/01/2004	_
5. Plant of sampling	Miter Rollany Strang White	
5. Environmental contillians during beninding & Teampers 7. Samulling Plan & Method wood	Clear & Divisy	
Comments to the second second	INA.	

Report No.: MSKCs/Eb/2023-24/064493

Sample No.: MSKGL/ED/2023-04/01/00584

RESULT

S146s	Paramaher	LICIA	Mattheat	-Limit	Result
1	Ammonia (NH3)	man gn/nd	15 5182 (Pad 25)	400 24 991	24.2
2	Gertion Monoxide (CO)	reg/nc)	15.5142.: From 19.:1899 (Result.2014) (NOIR) (O)	2 848	0.66
4	Nttroger Diccide (NO2)	Driving grains	IS 5162 Part 6 2005 (Reset 2017) (0)	80 21 HR	
4	Ounce (O3)	then grown)	IS 5182 (Part 9)	180.1 HR	30L(DL:20.)
.5-	Particulary (Author (< 10um)	Environ erzion	IS 5182 Port \$1,000 (Plant 2012), (D)	100 24 106	102
0	Particulare Mutter (<2.5um)	Bin/mg xxxx//	IS 5162 (PT-24),2018 (D)	EO 24 HILL	ing
1	Sulphur Denide (SO2)	PRICE UMING	15 5102 Part J 2001 (Hard 2012) (O)	80 24 HR.	10.2

ENU -

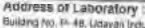
Report Varified By

Head Office:

For Mitra S. K. Private Limited

Docks Madcstoner





Building No. P. 48, Udayan Industrial Essate, 3. Pagladanga Road, Hollada 700019 West Bangar

Tel. +91 7044036120 Email usayantab@mitrass.com







Scan for Portal

ULR: TC-695024000001722F

Name & Address of Customer:

Titta Steel Ltd.(MGM) Joda West

AuPe, Jada Diar - Neorytan Colsia - 758034 108a

TEST REPORT

Report No.: Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/Htt205M

05/02/2024

MSKNB/ED/2023-24/01/A6248VV

18/01/2024

18/01/2024 - 05/02/2024

Permanent Facility

3000195017/056, Date - 16/00/2033

Chartical

We hereby certify that the following sample Drewn by us have been analysis a with the following reason.

1. Group	Missopheria Palutier
2. Description of sample	
3. Unique Identification of sample(if any)	Ambient Aje
4. Date of sampling	NA 15/01/2024
I, Please of sanguing	NEAR C-GUARRY SCIETTING YARD - JAYMM
Environmental conditions during empling & Transport.	1) Two pergine 10-25 deg C 2) Barometric Pressure: 737 mm of He 3) thus fall
Sampling Plan & Method used	No. A. Cold Chain Maintains 18.5182(P-11.12) & USEDs
devantazion or the personnel performing sampling by MSK	PRATIC NUMAR MANTRI, LAUN KUMAR NAIK
Field Equipments Used	MSK/SDL/FIG. DFDS-6

Report No.: MSKPL/ED/2023-24/H1205M

Sample No.: MSKNB/ED/2023-24/01/A6248W

RESULT

Chemical					
SI No.	Parameter	NOM	Method	Limit	Result
1	Alténic as (Aii)	nginsti	USEPA-IO S.A. Jame	ff (Annual)	BDL(DL-1.0)
2	Benzina	ration gm/m3	IS 5102 (Part 11)	5 (Amuni)	BOLIDE 42
3	Benzola)Pyrana	ng/m3	S 5182 (Part 12)	T (Ainnual)	BOL(DL:0,5)
4	Land (as Ph.)	Criting grains	U66P4-(0 5,4, umar	1 (24 Hours)	0.02
5	Manganese es Mn	Cantag gains	USEPA-IO 3.4 June	Not Specified	0.43
5	Nickel as Ne	CENTRAL	USEPA-IO 8.4, Jane	20 (Annual)	BDL(DL:5.0)

Unit as per CPCB nedicusion, here dem, 10th two maker 2009, for amount or stalls.

Elatement of Conformity MA

END -

Housest By:

Square **Antono**

O. your Mr. Pivil Canguly

Disspole Discusse Course Authorized Signatory

Signature

Descension.

Common

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Head Office:

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Event unightered con Widow www.netralium

Page Test

Address of Branch:

P /J. Eurbil () Keoningr Disses, 758 (35





Name & Address of Customer:

Trus Steel Lbi (MGAH, Jints West

AliPa: Uoda, Oist - Keorinar, Dastre - 758034 India Pin

TEST REPORT

Reference No. & Date :

Report No.

Date

Sample No. :

MSKGL/FD/2023-24/004491

TENESCENE

MSKGLEDWIZS-24/01/00688

2000156017 Date - 28/09/2003

We havely covery that the kalesang secrete Emme by us has level analyzed with the

1, Group	AR
2. Deera ption of sample	Arithent Air
3, Unique (doutfloation of sample(6 my)	Jisti West Iron & Mr. Mines
4. Date of sympling	15/01/2024
0. Prace of sampling	Name O-Country Statutes Vary (WIMM)
5 Environmental conditions shring assessing & Tramport	Chery & Status
7. Sampling Plan & Marrod Used	INA

Report No.: MSKQUED/2023-24/004491

Sample No.: MSKGL/LD/2023-24/01/06586

RESULT

SI No.	Parmeter	NOM	Mirthed	Limit	Rosall
4	Armionia (NH3)	mion grumo	G-5102 (Part 25)	400 24 HFL	14.6
2	Carpon Monoxide (CO)	Entrem	IS 5102 Fail 10 (1999 (Reaft 2014)	2 aHR.	D'44
3	Nitropen Disieda (ND2)	mining griving	8.3182 Part 2006 (Pent, XV12) (D)	30 24 HR.	21.0
4	Oeman (C3)	Emmit gram	15/5 title (Part 9)	180 1 48	HOURSE SEC
5	Particulate Manay (+10um)	miato gravita	55 5182 Part 23:2008 (Reaff, JU12) (D)	100 24 HEL	744
25	Participant Malber (<2.5um)	mtera givima	(5.51/92 /P7+24),2019 (U)	60 24 HR.	
2	Suprincialisada (SO2)	meso-general /	15 5162 : Part 2001 (Hunt 2012) (O)	80.24 HR	81

END-

Report Veritied By

Head Office:



For Mitra S. K. Private Limited

Docker MSK/CEM/UNIT





Building No. P. 46, Libuyan Industrial Estate 2 Pagisdanga Road, Kolkete 700018 West Bengal

Tel . +91 7044036120 Email ugayinlab@mirasii com





Boars for Poyto!

ULR: 10-6950240000017205

Name & Address of Customer:

Tale Steel Ltd.(MGM)_Joda West

ALPs. Jeda Dist. - Neorgian, Ocisno - 758034 Insia

TEST REPORT

Report No. 7

Date:

Sample No. :

Date of receipt of sample:

Dete(e) of performance:

Location of purformance of

Reference No. & Date

Discipline:

MBKPL/ED/2023-24/G1206H

06/02/2024

MSKNB/ED/2023-24/01/LD/24AF

18/01/2024

18/01/2024 - 05/02/2004

Permanuni Facility

9000156017/056, Date - 16/09/2022

Chemical.

We hereby certify that the following sample Drawn by us has been evelyged with the surprising resource

1, Oroup	Abhosphano Pertulien
2. Description of sample	Ambient Air
2. Unique Identification of sample(II any)	NA NA
Date of sampling	15/01/2024
5. Place of sampling	NEAR GANGEIGUDA PIT - JWIMM
Environmental conditions during sempling & Transport	1) Detriperature 10-26 deg C 2) Barometric Pressiant 733 min of He 3) Data Re
Lampling Plan & Method Head	1000 A COME COMET MAINTENANCE
are minimized on the personnel performing sampling by MSK	155162(F-1) (2) & USEE)
). Field Equipments Used	PRATIK JUMAR MANTRI, LALIN KUMAR NAIK

Report No. : MSXPL/ED/2023-24/G1208H

Sample No.: MSKNR/ED/2023-24/01/LD24AS

RESULT

SI No.	March Control	2000	1		_
al Mu.	Parameter	UQM	Mechod	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IC 2.4 June	6 (Associal)	BOL(DL:1.0)
2	Benzene	midro gm/nG	G 5182 (Part 11)	6 (Asoust)	EDL(0L 4.2)
3	Benzo(a)Pyrene	ng/m/3	(S) 5182 (Pan 12)	1-(Annual)	BDL(DL/0.5)
4	Land (as Ph)	misro genino	U50PA-10-3-4, June	1 (24 riggrs)	BOL(OL:0.01)
5	Manganese se Min	mitten gm/m3	USEPA-(O-SA) Aune	flot Spection	
6	Mickel as NI	Compo	USEPA IO 3.4. June	20 (Annesi)	5.4

Limit as per CPGB epification flery Death, 18th Horsenber 2009, for Allibert at quality

Statement of Conforming HA

END

Bonnerst By

E-9140.08

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Designation Technico in mange Authorized Signatory

Destyveau

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Proof Servicine Commission (Add. A.J.C. Book Rose, Roman - 7200) in phony temper point Head Drings 10 81 35 40143000/ \$2050000 Fax: \$1.32 22050008

Address of Branch:

P.O. Bertel Di Koonstani Crisses Indi too





Sees the Prortol

Name & Address of Customer:

Torre Store Lat (MGAD, Apun West)

AsPo, - Jode, Dest. - Keonjiser, Odeku - 758234. Inoni Pin

TEST REPORT

Reference No. & Date :

Report No.:

MSKGL/ED/2023-24/004459 Date: 10/02/2024

Sample No.:

MSRGE/ED/2023-24/01/00507

1000166817, Davis - 26/00/2023

We tenully centry that the following sample Drawn by us has been

1. Group	AIR	
2. Usscription of sample	Ambient Air	
2. Unique electification of sample of any;	Joda West Ivm & Mr. Mines	
Date of sampling	(50)(0034	
5. Place of sampling	Navi Geograph PR JVMNA	
Errorum with constitute during supplier & Transport	Clear & Stating	
7. Sampling Flan & Method West	NA .	

Report No. | M8KGL/ED/2023-24/004499

Sample No.: MSKGL/ED/2023-24/01/06587

RESULT

El Mar.	Parameter	LIKIM	Warnaa	Limit	Result
1	Ammania (NHS)	Swing drake	(6.51n2 (Part 25)	400 24 HS.	15.5
2	Sarten Munoxide (DO)	malest	(5.51)(2. Print 10 (1989 (Rnoft 2914) (NO(R) (O)	2 DHR:	0.51
3	Nilrogen Dissoda (NCI2)	micro gaulinis	(\$ 5182 Part E 2006 (Resil 2012) (D)	80 24 HR	150
+	Oston (C0)	micro-gm/m3	(\$5185 (Pavi 9)	180 1 HR.	BDL(DL:2//0
5	Particulate Midler (<10um)	Criting aroun	S 5152 Part 29/2009 (Realt, 2019), (0)	100 24 (48	241
- 5	Particulate Matter (<2.5cm)	mions goving	IS 5/82 (PT-24),2019 (O)	60 24 HR.	115
7	Bolotur Disxide (SO2)	Enling usim	IS 5767 Part 7 2001 (Feart 2012): (0)	80 24 HIFL	6.7

END -

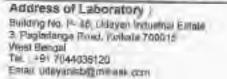
Report Verified By

Head Office:

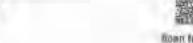
For Mitra S. K. Private Limited

Die No MSKOSKITHOV











Boan for Portal

ULR: TC-695024000001724F

Name & Address of Gustomer;

Tain Steel Ltd (MGM) Joda West

AMPa. Jeds, Dist. - Reoninar, Opums - /58034 Ings

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/L180TT

06/03/2024

M5KMB/EDVI023-24/01/PT2475

18/01/2024

18/01/2024 - 05/02/2024

Premanent Facility

3000156017/055, Date: 16/00/2023

Chemical.

We hereby smilly that the following sample Dimon by we has been qualyzed with the following results:

1. Group	Almasatrario Polutino
2. Description of sample	The state of the s
3; Unique Identification of sample(frau);	Ambient Air
4. Data of hamping	15/01/2004
S. Place of sumpiling	NEAR IN QUARRY REST SHELTER - JWIMM
C. Environmental conditions during sampling & Transport	1) Tempereture 10-25 deg C S Burpmetric Pressure: 7.33 mer of Mr. 3) Deer tell
7. Sampling Plan & Method cave	No & Cold Chair Maintaine IS:\$162(P-11 72) & USEPA
biomification or the personnel performing earnpling by MSK	FRATIK KUMAR MANTRI LAUN KUMAR NAJK
Field Equipments Used	MSK/BBL/FIELDIADS-2

Report No.: NSKPL/ED/2023-24/, 1207T

Sample No.: MSKNB/ELV2023-24/01/PT2475

RESULT

Chemical					
SI No.	Paramum	UOM	Method	Limit	Result
1	Arbenic III (As)	ng/m3	USEPA 10-3.4, June	6 (Asmuel)	BOL(DL:1-0)
2	Benzena	micro gm/m2	IS \$182 (Part 15)	5 (Asnual)	BDL(DL-4.2)
3	Benzo(a)Pyrene	rig/m2	15 5182 (Peri 12)	1 (Annual)	BDL(DL:0.5)
4	Lend (m. Pb.)	micro/gm/m3	USEP 4- C D.M. June	1 (24 Hours)	BDL(DL:DD1)
5	Manganèse as Min	mitte gravn3	USEPA-IO 14: June	Not Specified	0.15
6	hiideal as hii	ng/ma	USEPA-IO 3.4, Jame	20 (Annuar)	ADLIDUS OF
Senistrian v	Table and the	or the same		and provinces	EDUCAL STU

Oplower:

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Statement of Conformity

END -

Streeted by

Space. Mixto

Designation Technolinchups Authorized Stansion

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The matter part of services in method strains (first first a basel which is set as interest to the services of the services of

Address of Branch :

P.O. Barba Di risonifita Crissa 758 (05





Sens for Percel

Name & Address of Customer:

Total Stime Ltd. MEM), Joce West

AWPg. - Joda, Dist. - Keengar, Odehe - 759334. India Pin

TEST REPORT

Report No. :

Date

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/0048#

10/02/2024

ABSKITL/LD/2023-34/01/00588

3060156017, Onn - 28/09/2023

We havely carrily that the following sample Disserby us has leser analyzed with the following secular

1. Group	AIR
2. Description of sample	Anthred No
1. Deligue identification of sommerfil may)	Joda West Iras & Mrt Mines
4. Cathe of compline	1501/2024
Fisci of sempling	Aline S. Courty Black Shows JAVAMA
Environmental confinens during compling & Transport	Torns & Summ
7. Sampling Cine & Mathed and	NA.

Report No. - MSKCL/ED/2023-24/6044W

Sample No.: MSKGUED/2023-24/01/00588

RESULT

BI No.	Maramiter	HOM	Marnod .	Limit	Result
1	Ammonio (MHS)	Devery (suite)	% fil82 (Part 25)	400 24 HFL	13,5
3	Carbon Molaside (DO)	(mgma	(5.5 (82 : Piur 10 : 1989 (Reaf) 2014)	2 WHE	0.03
3	Nitrogen Dicklite (NO2)	mins gm/m3	IS 5182; Part 6 2906 (Reeff 2012) (0)	801-24 HIR	945
4	Cznne (CG)	Driving cours	ISSIDE (Party)	180 1 MR	BDL(DL you
5	Perticulate Matter (<10um)	Emiring criticis	G-5182 Port 21 2000 (Rewit John (0)	100.24 etc.	240
П	Particulate Matter (<2.5em)	Emirro oraim	18 5 182 (PT-94) 2019 (O)	00 24 HF	115
7 1	Sulphur Diouse (SOZ)	micro gra/mo	16 5102 Part 2 2001 (Nest 2012) (0)	80 24 HR	88

___ ENO ___

Report Verified By

Head Difficec



For Mitra S. K. Private Limited









San for Portal

ULR: TC-6950240000001721F

Name & Address of Customer:

Tale Steel Les (MGM) Jodg West

Address of Laboratory :

Emait udeyenlab@micrask.com

Wout Bergal ret.:+91.7044036120

Gunsing No F.-45, Duayer (Industrial Estate, 3. Payledange Road, Koheta 700015

AMPa - Jedis Dist - Recogliar, Oesana - 750004 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/D1206F

05/02/2024

MSKNB/ED/2023-24/01/900496

10/01/2024

THE 1/2024 - 05/02/2024

Parmadent Facility

3000158017/058 Date - 18/05/2021

Chirmeni.

We hereby contry that the following surepse Drawn by us have been an agreed with the following sevens.

1. Group	
2. Dosumption of sample	Almontovic Palkove
. Unique identification of sample if any i	Ambient Air
L Cists of nampling	NA NA
	15/01/2024
Place of sampling	NEAR D-QUARRY SCREEN PLANT - JAMMA
. Environmental possitions during sampling & Transport	1) Toppisonius 191 26 deg 5 20 December 1
Sampling Plan & Method used	Temperature (0-36 deg C 2) Barometric Prinssure: 733 mm of rig 3) Rain fall file 5. Cold Cross Maintains
Manuficant of recorded there	18/5168(P) 1.12) 4 USEPA
Identification of the personnel performing sampling by MSK	PIRATIK KUMAR MANTRI, LALIN KUMAR NAIK
Field Equipments Used	MSCRBLFIFLDRDS-0

Report No.: MSKPL/EU/2023-20/D1205P

Sample No.: MSKNB/ED/2023-24/01/202495

RESULT

Si No.	Harmon and A	1			
ar jeu.	Parameter	DOM	Method	Limit	Result
1	Amenic as (As)	Im/pn	USEPA-IO 3.4, June		
2	Benzene	micro gm/m3	IS 5192 (Part 11)	6 (Annual)	BOL(DL:1.0)
3.	Berzo(s)Pyrans	enting.	15 5482 (Purt 12)	5 (Amusi)	BDL(DL:4,2)
4	Litted (as Pti 1	micro ambox		1 (Annual)	BDL(DL:0.5)
5	Manganese as Mn	micro gm/m3	EGETWHO D.4, June	1 (24 Hours)	0.02
8	Nickel as Ni		USEPA-IO.3.4. June	Not Specified	0.27
pinion		rig/m/3	USEPA-IO 3 II, Jianu	20 (Annual)	BDL(DL:5.0)

Limit as per SPCS notification. New Dev., 16th (fovermon 2008, or Amoven) stripulity

Stitument of Conformity

END-

Sensons Ur

Harmer

Dougration **Entaine Chemist** Authorizate Stephening

ren manus relate only by the semijar tensor.
The Test Report state only by the semijar tensor in the seminance of fellow by a. Private Landay.
The renarred part of semigraphs for the manufacture (Mon., presently species) Food, Visitely Add (se substance for 15 days from the date effects of the Test Report. Presentation semiples (Shift by related 2 days).

African analysis (Sc. 1 and Vision shall be returned by 1. days as pic (2-Co plants to CAP) I more non-the rice of paul of the Report of the Cap analysis (Ron - certificity surposis) Food Sealed Vision Sealed (Foll) shall be retailed for 12 days from the day of issued the Test Report Head Office

Address of Branch

P.O. Berbi Di Koopinii Orissa 758 1035





Name & Address of Customer:

Tuta Shed Ltd (MSM), Josta West

At/Po. - John, Orst. - Keenmar (Adstral - 7580)34 India Phy

TEST REPORT

Report No. :

Date :

Sample No. :

Reference No. & Date:

MSKGL/ED/2023-24/004485

10902/2024

MSKGE/ED/2023-24/01/00/656

3000156017, Date - 28/09/2023)

We havely swally that the anisotropy sweeple Denumber of

AIR
Arthrey Air.
JOGS West Line & Mrs. Mines
1501/MD4
- Controllers
Court Summ
1 MA

Report No. MSKGUEDQ023-24/004485

Sample No.: MSKGUED/2023-26/01/00/586

RESULT

BI MU.	Parameter	neller UCM Atomor		1	
	11.00	304	Memod	Limit	Resint
-	Ammonia (NIGI)	THIRD USER	15 5182 (Part 25)	400 24 HK.	15/8
2	Carbur Munorine (CO)	riginics	(S5102: Part 10: 1099 (Raed.2014)	2 BHR.	0.51
3	Miniger Direkto (NO2)	micro gardend	SE-MED Park 6: 2005 (Ras/120.12) (0)	80 24 HP.	-
-4	Danie (O3)	mican galvina	35100 (Part 9)		514
T.	Formgainte Matter (< 10um)	micro-gmin)	15 5 (NZ Part 22 2008 (New Y 2012) 10)	180 1 NR.	HDL(DL 20./
45	PROTESTED Mader (<2.5um)	mars gm/m2		100.24 HR	162
7			15 St 32 FT 241,2019 (O)	60.24 HR.	87
-	Sultrair Dielide (802)	Entero gravina	15 5152 Part / 2001 (Rwiff 2012) (D)	80 24 HR	7.1

END -

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Street-House (58) Floor, 146, Full Rose Rose, Knisster 790016, West Berger bring. The Fr 37 emphysion (56880cc) Flor et 51 5550000 From ethyphotoxic part Valence Index retrials open

Page Lord

Address of Laboratory :

Building No. P. 48, Lideyan Industrial Estate. 3. Popladango Road, Kolkata 7000 in West Bengal Tel. +91 70/4036120 Email udayanint@milrass.com







Scan for Portal

ULR: TC-695024000001726F

Fire No. MSWOODWINSTON

Name & Address of Customer:

Tala Street Ltd. (MGM)_Jode West

AUPe. Jado, Ottl - Keurgnar, Odistra - 758024 Inde

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Dareja) of performance: Location of performance of Reference No. & Date :

Discipline:

19/01/2024 19/01/2024 - 05/02/2024

Parmaneut Facility 3000156017/056 Date - 18/00/2023

MSRFL/ED/2023-24/N1208T

MEX.NB/ED/2025-24/01/BM247H

Chamical

05-02/2034

We hereby certify that the following smooth Drawn hy we have been suchoed with the following respect,

1. Group	Atmospheric Pollution
I. Description of sample	Ambient Air
3. Unique identificación of sample(if any)	NA NA
Ente of sampling	1601/2024
I. Place of sempling	NEAR RAILWAY SIDING - MIMM
7. Environmental conditions during sampling & Transport	1) Turinjurature: 10-25 deg C 2) Barometer: Pressure: 732 mm of tio 3) Pain tell
, Sampling Rien & Wathod used	1 NO. A. CONCURSIO Machinesis
is learnitheatron of the personnel performing sampling by MSK	15/318/2F-13/12/A USEPA
9, Field Equipments Used	LAUN KU NAIK, PRATIK KUMAR MANTRI MSK/BBUF ELDRDS-3

Report No.: MSKPL/ED/2025-74/W1208T

Sample No.: MSKNB/ED/2023-24/01/BM247R

RESULT

Chemical					
Si No.	Parameter	NOM	Metriod	Limit	Result
1	Americas (As)	Entlan	USEPA 10:3.4, June	d (Amust)	
2	Beszene	micro gm/m3.	IS 5160 (Part 11)	5 (Annust)	80L(CL-1.0) 80L(CL-4.2)
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Par 12)	1 (Annual)	BOL(DL 0.5)
4	Lend (in Ph.)	milera gm/w3	LIBERA-ID 3 4, June	I (24 Hours)	0.02
5	Manganasa ee Mr	micro gm/m3	DISEPARO 3.6: June	Not Specified	0.39
R.	Nickel as Ni	ngim3	USEPAIO 3 L, June	20 (Aimani)	BDL(DE:5:0)

Link, as per CPCS equilibration, iver Death, 19th vironnium spare, as Amoveni an quality

Statement of Conformity

END.

Distances for

Micros

2 rungalox Dr. Devotara Bavery Testron inchess

Designation

Authorized Scharry

Timper.

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Huard Office: 200 or Control (Int Proc), 146, 8 4/3, 8 4/3, 8 400, 1000 Processor (1000), West Birty of Intelligence (1000) Processor (1000) P house resignment con Vertical year reveal own

Page Fail F

Address of Branch:

P.O. Britis Di-Keopinar Orissa 758 (35)





Name & Address of Customer:

Tota Steel (1d (MGM) Joda Wind

AstPo: - Jose, Det. - Receijust, Cristus - 758014 Judia Pin

TEST REPORT

Reference No. & Date :

Report No. :

Ditto :

Sample No.

MSKGL/ED/2023-24/004485

10/02/2024

MSRGL/ED/2023-24/0 (2059)

0000156617, Date - 28/09/2023

ove honeby carry that the inflavoray sample Crown by us has been analyzed a

1. Group	AR
2, Description of sample	Ainthiati Air
E Unique Inentification of somportil any)	Jobs West tics & Mr. Mines
A. Core of compling	16/01/00/4
§ Place of campling	Niter Flothing String (WIDE)
Environmental conditions during examiling & Transport	Clear & Surry
7. Sampting Piler & Middled Laure	Wife

Report No.: MSKGL/ED/2023-24/004495

Sample No.: MSKGL/ED/2023-24/01/00590

RESULT

nalysis	Result of Ambient Air				
SI NO.	Patrametiu	I/OM	Mirringa	Limit	T 1900-194
1	Amreoren (NH3)	micas garins	15 6782 (Part 25)	400 24 HR.	Result
2	Currior Marexate (CO)	riskimi)	BL0102 : For 10 : 1909 (Real 2014)		18.5
2	Milrigen Dioxide (NCD)	Iniom gm/mil	IS 5182 : Part 6:2006 (Rost(2012) (D)	2 #R	0.60
4	Ower (CO)	micro grahica	IS 6182 (Part 9)	180 1 HFL	37.5 BDL(04:20.0
5	Particulary Matter (<) (lam)	FIOR BINNS	15 5182 Pml 21 2006 (food), 20122 (0)	180 24 HR	238
- 0	**************************************	micro gm/m3	IS 5182 (PT-24),2017(U)	60 24 HR	125
-	Subtan Dinnisir (SOZ)	went Buyun	1551E2 Part 2 2001 (Feath 2012) (O)	80 24 HFL	85

END.

Report Verified By

Head Difficult



For Mitra S. K. Private Limited

Authorised Signatory

present Commo (St. France), Frield, A.J.C. Brown Hand, Kolleson - Willowski, West, Brownia, St. 33-60 reference (22080000) France (St. 179820000).

Throat Brook reference com Wilson - wine reference com-

Page t off

Address of Laboratory

Building No. Fi. 48, Lidayan Iversenii Estate, 3. Pagiadanga Road, Rollinia 1000 IS West Burgal

Tel.: +91 7044038120 Email: udayantate@mitraio.com







50an for Pertail

ULR: TC-895024000001727F

DECINE: MEXICANITAGE

Name & Address of Gustomer:

Fata Steef Ltd.(MGM)_Joda West

AsiPo - Joda, Dist. - Keonjhar, Odgisa - 798034 srdia

TEST REPORT

Report No. :

Dute :

Sample No. :

Date of receipt of sample:

Date(a) of performance: Location of performance of

Reference No. & Date:

Discipline:

MBKPI /HIJ/2023-24/41208C

06/06/2024

MSXNB/EIJ/2023-24/01/MQ248E

19/01/2024

19/01/2004 - 05/02/2024

Remining Easily

3000196017/058, Date - 16/09/2023

Chertical

We hereby certify that the following semble Drawn by us have huma unaliceed will the following expure.

1. Sreup	Althougherts Polyton
K. Description of sample	
Unique Identification of sample(If env)	Ambient Air
L. Doin of sampling	NA NA
Place of sampling	16/01/2024
	NEAR D-OLIARRY SCREEN PLANT - JWIMM
Environmental conditions during sampling & Transport	1) Temperature 10.25 mag C 2) Barrangtic Pressure: 713 min of Ma 2) Ba
, Sampling Plan & Method issue	1 040.0.1.1040 1258 0 MBM STIME
identification of the personnel performing sampling by MSK	(8:5110)(P-11,12) & USEPA
Field Equipments Used	LALIN KU NAJIC PRATIK KUMAR MANTRI
The second second	MEROHRIUPIELDIROS-8

Ruport No.; MSIP-JED/2023-24/41208C

Sample No.: MSKNB/ED/2023-24/01/MC/248F

RESULT

BINe.	Parameter	HOM	Method	Limit	Result
1	Arsenic as (As)	Errign	UREPAIO 3.4, June	© (Annual)	
2	Bonzens	Enimg oraims	(5.5182 (Part 11)	5 (Annual)	BDL(IX.:1,0)
3	Benzo(s)Pyrene	ng/m3	IS 6162 (Far) 12)	1 (Annual)	BDL(DL:42)
A	Lead (as Pb)	nsiero gra/mZ.	USEPA 10 0,4, June	1 (24 Hours)	BOL(DL:0.5)
5	Marganasé se Mn	micro gmi/m3.	USEPA-IO 3.4 June	Not Specified	BQL(GL:0,01)
0	Nickel > Ni	mgawa).	USEPA-ID 3 4, June	20 (Annual)	0,39

I imit as per CPCB notification, New Desc., 10th notember 2000; for national or quality

Statement of Conformity

END -

Parament by

DECTMENT Name

Or Direction Report

Designation Tedyson is sharps Authorized Standory

AMERICA STREET

The results related apply to the Apropolement.
Then Test Flations shall not be provided and to

CONTRACTOR OF A PROPERTY OF STREET AND A PROPERTY OF STREET AND ASSESSED.

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The country part of settings to the fine of the country of the set of the country of the country

Freed Office: Stratts (view star rece), 740, A.J.D. Brow front, Science - 710050, West Bernel, Inst., 191-59-4014(007) (2500007 Fig. 181-33 (250000)) Cornel Programmes over Visional ware videous man



P.O. Barbii Dt Kooritvir Orlina 758 035





Seen ber Perroll

TEST REPORT

Name & Address of Customer: Report

Tana Annual Estaphicate Javan Waget Date :

AVPo. - Joda, Etst. - Keonjhar, Odkina - 758034 India Pin

Report No. : MSKGL/ED/2023-6/JUNE492

17/0/02/09/03/4

Sample No.: ASKCL/ED/2023-24/01/0591

Reference No. & Date : 3000156017, Date - 200012021

We hereal early that the infowing samule Drewi by us has been analyzed with the following results:

1, Group	AR-	
2. Description of sample	Anthierit Alt	
2. Unique Montification of sample(1) any)	Jodia West kon & Mr. Mines	
Clate of shroding	1601/2004	
Place of suropling	None D-Querry Science Price-JWAM	
Environmental specialisms during sampling & Transport	Clear & Starry	
7. Samping Plan & Memod used	NA NA	

Report No.: MSKGLJED/2023-24/004492

Sample No.: MSKGL/ED/2023-24/01/00591

RESULT

malysis Result of Ambient Air							
WHO.	Partition	NOM	Meltippel	Limit	Result		
4	Ammorta (WHZ)	micro prima	15 8 182 (Pari 25)	400 24 HFL	12.1		
2	Carbon Monoxide (CID)	mgims	(8 5182 - Part 10 :1009 (Roof 2014) (NDR) (O)	2 BHR.	0.78		
3	Nitrigen Desirie (NCI2)	mino gm/m3	IS 5162 - Part 6 :2/00 (RentLa01.) (O)	UO 24 HK.	10.6		
4.	Ozopa (03)	mara prima-	45.6182 (Part 9)	180.1 HR.	BDL(DL-20/0)		
5	Particulate Martir (<10um)	refero grekm3	45 5182: Plant 23:2006 (Right), 2012 (10)	100 24 HR	850		
- 8	Patiticolate Matter (<2,5cm)	como dumpo,	IS 5182 (PT-24) 2019 (Q)	80'24 HR.	10-		
7	Sugara Dioxide (802)	impro grains	15 5182 Part 2 2901 (Planti 2012) (O)	80 24 HR	8.0		
	The state of the s		the state of the s		_		

END.

Report Verified By

Head Office:



For Mitra S. H. Private Limited

Authorised Signatory

Address of Laboratory : Building No. P. 48, Udayan Todustrial Estate. 5. Pagladenga Pland, Kulkaus 700016 Whit Bangui

Tel. +917044038120 Email udayanlub@mhrask.com







FOR NO. MISKOSWINGS



ULR: TC-695024000001728F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPD - June Clies American, Conno - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. 1

Date of receipt of sample:

Date(s) of performance Location of performance of Reference No. & Date :

Discipline:

MSKFL/ED/2023-24/F12081

125/02/2024

MSKNE/ED/2023-24/01/MS248E

19/01/2024

19/01/2024 - 15/02/2024

Personent Facility

3000156017/656 Date - 15/09/2023

Chemical

We hereby christy that the tolkwing sample Drawn by us has been unalread with the lowering results.

1. Group	Armissphoele Palitiles
2. Description of sample	Ambiem Air
3. Unique Identification of sample(if any)	NA NA
Date of sampling	16/01/2024
5. Place of sampling	NEAR D- QUARRY SORTING YARD - JWIMM
6. Environmental conditions during sampling & Transport	 Transper after (10-25 day C 2) Berometric Pressure: 733 mm of Hg 3) Rain tall No S. Cott Other Mappared
, Sampling Plan & Maliron used	15:3182(P-11:12) & USEPA
s. Identification of the parameter performing sampling by MSK	LALIN KU NAIK, PRATIK KUMAR MANTRI
7. Field Equipments Used	MSK/BBLFIELD/RDS-6

Report No.: MSKPL/ED/2023-24/F12081

Sample No.: WSKNB/ED/2023-74/01/MS24BE

RESULT

Chemical					
51 No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	Em/gri	USEPA IO 2.4, June	5 (Antout)	BDL(D), 1.0)
2	Вездере.	micro grown2	(S 5182 (Part 11)	5 (Annual)	BDL(DL42)
3	Senzo(a)Pyrene	ng/m3:	(5 5182 (Part 12)	1 (Annual)	BBL(DL:0.5)
4	Lead (as Pb)	miero gram2	USEPA-IO 3.4, June	1 (24 Hauss)	0.02
5	Mongonose es Mn	micro gm/mij	LISEPA-IO 3.4" June	Not Specified	0.17
B	Nickel as Ni	Compo	USEPA-JO Z.4, June	20 (Annual)	50

Opinion :

Limit as per SPDB notification (New Darkt, 1931) November 2000, no symmetrial recently

Statement of Conformity MA

END -

CONTRACT DO

SERVINI Name

Daning

Designation: Technical in charge

Authorized Signatory

The raw its white only to the literax because.

The Test Paper and up to repetitive many man Associate participant in the Set Provide Larring.
The coverage participated participated and participated participated by AS (1995) from the many of the Test Report, Post-facine surrow(s) and the retained 2 days.

Very the date of trace of the Test Report.

This removals unit of manufacts for property deposes (top) could be begin whether what is not removed by 11 days or over CPCB parameters (Au) is required to the state of season of the financial removal unit of the financial removale removal unit of the financial removal unit of the financial rem

Specific region (10) February 200 p.J.C. I and Royal Complete (2001), Was decided by Tol. 191-33-63-40-000 (2005)000 February 33-232-000-8. Incident Magnetic region (2005) 49-24-6. We prove the second of the complete region (2005) 49-24-6.

Page 1 of 1

HAND DIVIDE:

Address of Branch:

P.O. Barbi Di Keonmar Crisso 759 035





Seen for (Seed).

Name & Address of Customer;

Tau Short (ht. (MGM) Jode West

AUT'o - Joda, Disk - Kegnyter, Ddishe - 758034 Imila Pin

TEST REPORT

Fuport No. :

Sample No. :

Reference No. & Date :

MSKGL/EDV2023-24/004457

10/02/2024

MSRGL/ED/XX25-24/01/00593

3000156017 Date - 28/09/2023

We hereby certify that the following sample Directly us has been analyzed with the following results:

1. Group	AIR
C Description of sample	Agewre /ur
3. Linkpus (dismifficulture of prompto(if arry)	Asta West Iron & Mr. Mans
4: Date of sampling	1601/0024
5. Place of sampling	Mass D-Claure Sorting Vani -MMAM
6. Environmental conductors during sumpling & Transcort	Cinter & Busine
7. Entitling Riss & Method used	N/A

Report No.: MSKGL/ED/2023-24/094467

Sample No.: MSKGL/ED/2023-24/01/08/92

RESULT

SING.	Parimeter	now.	Memog	Limit	Result
1	Ammonia (NH3)	mem privated	18-6162 (Part 20)	400 14 HR.	12.7
3	Camon Monoyale (CO)	Conjun	(50)18: Fair 10: 1999 (Rood 2014)	2 8-56	0.07
2	Mitrogen Diceade (NO2)	mon geven.	15 5182 : Part 6 :2006 (Res0.2002) (D)	80.24 HF.	24.1
4	Oznou (OS)	micro grand	15.5160 (Pagg)	180 T HR.	BDL/DI-2000
	Particulate Militer (<10ay)	man grano	15 5 (62: Part 25 2000 (Poulf, 30 (27 10)	160-24 HR	230
2	Pastrussie Motter (<2.5iah)	miczo graimă	IS 5182 (PT-24),2019 (O)	80 24 HR	
2	Subbur Dinna (SOZ)	micro gravaci.	65 5162 Part 2 5001 (Numt 2012) (D)	80 24 HR	9.7

__EM0 _

Report Verified By

Head Office:

For Milra S. K. Private Limited

Authorised Signatory

Princip Committee Committee Committee Author - 760015, ment berget by La. 10-30 story of Committee Committ

Address of Laboratory :

Building No. F. 48, Udayar Industrial Estate. ili Pagtadenge Road, kolkala 700815 West Bengal

Tel.: +91 7044036120 Empli udayar lab@hrillmak.com







Scan for Povial

ULR: TC-695024000001729

Drie Mr. 448/00/ENVIOLE

Name & Address of Customer:

Tata Stee Lid (MGM) Lodg West

At/Po. - Jode Dist. - Recognition Chiefes - 758034 Mile

TEST REPORT

Report No. :

Date : Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/812091

05/03/2024

MIKNB/ED/2023-24/01/N5249U

19/01/2024

19/01/2024 - 05/02/2024 -

Permanent Escaty

3000156017/058: Date - 16/09/2023

Chemical

We hareby county that the tolowing sample Drewn by us have been analyzed with the interest receive

1. Group	Amenaturic Polistian
2. Description of sample	Ambient Air
2: Unique (deptification of sample(If any)	NA NA
Detr of sampong	16/01/2004
5. Plear of sampling	NEAR GANGEIGUDA PIT - AVIMM
6. Environmental conditions during ampling & Transport	1) Temperature 10-26 July C. J. Barramaine Pressure 733 mm of Hg 3) Raw tal
7. Sampling Plan & Method used	DNC & Cold Chain Maintained ISS1828F-11,021 & DBEPA
s. Recommended of the personnel performing sampling by MSK	LALIN KU NAIK, PRATIK KUMAR MANTRI
8. Flaid Equipments Used	MSRJEBIJ/FIELD/RDG-4

Report No.: MSKPL/ED/2023-24/61209D

Sample No.: MSKNE/ED/2023-24/01/NS24911

RESULT

Parameter	DOM	Method	Limit	Result
Arteric as (As)	npm3	USEPA-10 3,4, June	-6 (Annual)	50L(DL-1.0)
Banzene	micro gravim3	E 5182 (Part 11)	6 (Annual)	BDL(DL-4/2)
Benzo(a)Pyrene	ing/mS	f3 5182 (Part 12)	1 (Amuni)	BDL(DL 0.5)
Lined (sei 1981)	miaro gmima	USEPA to 3.4, June		DIA.
Manganase as Mn	mana pmin 3	LISEPAND 3.4; June	Not Specified	15.30
Nickel as Ni	ng/m3	USEPA-10-5 A, June		9.0
	Antenic so (As) Benzene Benzo(a)Pyrono Lead (as Ph.) Manganese as Me	Arteric as (As) ngm3 Benzene morro grains Benzela)Pyrana ngm5 Lead (as Ph.) miaro grains Manganese as Mn miaro grains	Artienic as (As) ngim3 (JSEPA-IO 3.4, June Benzenis micro grafm3 (S 5182 (Part 11) Benzenis ngim3 (S 5182 (Part 12) Lead (as Ph.) micro grafms (JSEPA-IO 3.4, June Manganesee as Mr. micro grafms (JSEPA-IO 3.4, June	Antenic so (As) ngm3 (/SEPA-10 3.4, June 6 (Annual) Benzene micro grylm3 (5 5182 (Part 11) 5 (Annual) Benzela)Pyrana ngm3 (5 5182 (Part 12) 1 (Amual) Linar (as Ph.) micro grilm3 (/SEPA-10 3.4, June 1 (24 traurs) Manganese as Me micro grilm3 (/SEPA-10 3.4, June Not Specified)

Ophilen

NA.

Statement of Conformity NA

END.

Havemore by

Signal in

1 Daninger

Designation (recovered to exactly)

Authorized Signatory

True rought orders are a to live Mantilo design.

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Stylen Green can Felic. John A. F.C. Bearload, Robbs - 700010, Very Singer, Iron. Tel. 31 33 481-43007 (2000)07 Pag. 31 33 22550000.

Trial 1/10/2 mhadrous years and any angent room. fread Offica:

Page 1 of1



P.O. Bartin Di Koonitus Crimis 755 035





TEST REPORT Name & Address of Customer:

True Stead Lite (MDM), Joes Want

AtiPo. - Joda, Dist. - Keorpher, Ocisha - 758034 India Pir-

Report No.:

MSKGLIED/2023-24/004488

Date: 10/02/2034

Sample No.: MDKGL/EDI2023-24/01/00593

Reference No. & Date : 3000156017 Dain - 25/09/2023

We havely swifty that the following sisting Disser by us has deen analyzed with the following results:

1. Group	AR		
2. Description of surrain	Ambient Air		
3. Um qué identificación di sample(é any)	Joda West from 5 Mn. Mines		
4. Date of sampling	16/01/2024		
5. Place of sampling	Natur Gargeria von Pil. 6/MMM		
Commonwell conditions darling sampling & Transport	Clean & Sunni		
7. Sampling Form & Method used	NA NA		

Report No. , MSK/GD/E0/2023-24/004488

Sample No. : MSKGL/ED/2023-24/01/00093

RESULT

malysis Result of Ambient Air						
BI No.	Ferningen	LIGH	Muthing	Limit	Result	
1	Attrinonia (NIHS)	Cettern crater	\$6102 (Pet 25)	400 24 HFC	13.2	
2	Castion Managida (CO)	ma/m2	(5 5182 Print 16 /1999 (Rum(C2054) (NDFt) (O)	2 部報	0.00	
4	Nitingen Dioxide (ND2)	mean ymint;	(S.5189 Penti 2006 (RestL2012) (O)	90 24 HR.	20,8	
4	Ottovo (D3)	mioro gmun3	18.5182 (Part 9)	160 1 HR.	BDL(01 20.0)	
6.	Particulate Matter (<10cm)	miare grimo	IS \$162 Port 23:2006 (Resift 2012) (O)	10024 HR	300	
6	Particulate Natter (<2 5um)	Enimposim	IS 5182 (PT-26),2019 (IO)	SO 24 MPC	97	
7	Suplier Device (502)	Cooling graver	13-5182 Fan 2 2001 (Fourt 2012) (O)	00'24 HR:	T.R	

END -

Report Verilled By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory:

Email, udayani uppmitmak com

Bullding No. 2- 45, Udeyen Industrial Esiste, 3, Pagliidangii Roso, rigilutii 700015 West Burgel Tel.: +91 7044036120







ULR: 10-695024000001730F

Desi Ma. | MSROCLEM/18007

Name & Address of Customer

Tata Steel Ltd (MGM)_ Joda West

AliPo - Joda Dist. Kennjhar, Odiska 758024 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MBXPL/ED/2023-24/V1209B

05/02/2024

MSKNB/ED/2023-24/01/TP24AE

19/01/2024

19/01/2024 - 05/02/2024

Perminent Facility

3000159017/096, Dale- 16/09/2023

Chemical

We havely certify that the following comple Orders by un true bown analyzed with the interesting results.

t. Group	Atmospheric Poliution
2. Description of sample	Ambient Air
5. Unique (deptification of sample(fi acy)	NA NA
Date of sampling	16/01/2024
5. Pface of sampling	NEAR H-CMARRT REST SHELTER - JWIMM
6. Environmental conditions nining sampling & Transport	 Tampersone 19-26 deg C 2) Barometric Pressure: 733 mm of Hg 3) Rein fol No & Cital Charr Maintained
7. Sampling Plan & Method used	IS-5182/P-11_12) & L/SEPA
9. Identification of the personnel performing sampling by MSK	LALIN KU NAIK, PRATIK KUMAR MANTRI
II. Field Equipments Used	MINURBLIFIELD/ROS-1

Report No.: MSKPL/ED/2023-24/V12098

Sample No.: MSKNB/ED/2023-24/01/TP24AE

RESULT

Thomical					
Si No.	Parameter	LION	Mettrod	Limit	Result
1	Arsenic se (As)	Codgo	USEPAJO 3,4, June	6 (Annual)	BDL(DL 1.0)
2	Benzene	micro gin/m3	IS 5182 (Part 1/1)	6 (Annual)	BDUOL42)
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	SOLDLOS:
4	Load (cs Pb)	mare ginling	USEPA-IO S.4, June	5 (24 Hours)	0.02
5	Manganasa as Ne	micra gm/mili	USEPA-IO 14 Juno	Not Specifing	0.17
6	Nicios) and this	0g/m5	USEPA-10 3.4, June	20 (Armuw)	18.0

Opinion:

Limit is per GPC6 nullication. Here Julii- 10th November 2009, for Ambient in quality

Statement of Conformity

END

Единича Ву

Blammyn. Dr. Gevolten Binerjes

Diagratina

Technical In Starge

Autrorged Signatury

SHAME

Lab in change

Organization of the feet of the personnel of the personnel of Marc 6.6. Provide Levelot.

This Test Report their set of the personnel of Marc 6.6. Provide Levelot.

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Transcent and part or complete the descent acceptance of the four of transcent part of the part of the

Address of Branch:

P.O. Bartil Di Kamuliai Oriesa 718 tist





Seen for Tourist

Name & Address of Customer:

Tata Shari (m./MSM) Jona West

At/Po. - Auta, Dat. - Recorder, Odeba - 758034 Vote Pin

TEST REPORT

Report No. :

Date : Sample No. :

Reference No. & Date

MSKQL/ED/2021-24/004498

10/02/2024

MSKGL/ED/2023-24/91/08:814

3000156917, Unio - 28/09/2023

We hereby currily that his following swinger Drawn by us they been averaged with the following results.

1. Grosp	AFE		
2. Description of sample	Ambieni Ali	_	
3. Unique Gret/Fudion of sample(If any)	Joan West lean & Mr. Mines		
4. Date of sweeping	46/01/2024	_	
5. Pleas of sampling	Nave H.O astry Rent Shorter, JUNEAU		
in Programme and commissions during numbers & Transport	Clear & Surviv		
7. Sumpting Plat: & Maihod eved	NA		

Report No.: MSKGL/ED/2023-24/004400

Sample No.: MSKGL/ED/2023-24/01/0584

RESULT

analysis Result of Amblent Air							
SINO	Paremeter.	UOM	Microg	Linsit	Result		
-1	Armnona (NES)	Severg erann	(8 5160 (Part 25)	400 24 HR	19:5		
2	Carbon Monoxide (CO)	mp/m3	(8.5)(02.) (Feet 10.;1999 (Rendf.2014)	2 8HFL	13.85		
3	Nitrogen Flioside (NG2)	mian gralm3	3 (187 Part 8 (2008 (Rest(2012) 13)	60.24 HR.	78.2		
	Cirona (CO)	Comisting crawni	1E 6182 (Fart 9)	180 T HR.	BDL/DL 20,0		
5	Periouete Meser (<1pun)	Emiring orders	55.5185 Part 25.2006 (Rouff Ast2) (D)	100 24 HEL	230		
5	Particulate Matter (<2.5cm)	Emirro grains	15 M 82 (PT-24) 2019 (0)	60 24 HR	116		
7	Suplar Disorde (SC2)	Entitry craim:	S 5186 : Part 2 (2001 (Result 2012), 10)	80 24 HR.	8.6		

- END -

Report Verified By

Nead Office:



For Mitra 5, K, Private Limited

Address of Laboratory:

Beilding No. P. 48, Udayan Industrial Estate. 3. Pagladanga Road, Krikata 700815

Name & Address of Customer:

AVPo. Joda, Dat - Vennihar, Ooleha - 758034 Inilia

World Design

Tel +91 7044036120

Email ocayonlab@mitrask.com

Tata Shwil Ltd (MGM)_Jods West







Soun for Portal

ULR: TC-695024000001731F

Section MSWGEW1907

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of

Reference No. & Date :

Discipline:

MSKPL/EID/2023-24/2120AR

0E/02/2024

MBKNB/ED/2020-84/01/UHZ/WH

19/01/2024

10/01/2024 - 05/02/2024

Permanent Facility

.3000156017/056 Date - 15/09/2023

Chemics

We hereby earlify that the following sample Drawn by up has been adelesed will the following results.

1 Group	Atmospheric Pollution		
2. Description of sample	Ambjent Air		
3. Unique (dentification of semple(if any)	NA .		
4. Date of sampling	15/01/2024		
5, Place of sampling	NEAR TIME OFFICE - JWIMIN		
6. Environmental conditions during sampling a Transport	17 Temporature 10-26 day Ci2) Barometric Pressors: 733 mm of Hy 3) Rain to No 8 Cold Chen Mainsained		
7. Sampling Plan & Method used	IS-5182(P-11,1Z) & USEPA		
6. Identification of the personnel performing sampling by MEK	LALIN KU NAIK, FRATIK KUMAR MANTRI		
9. Field Equipments Used	MENGELFRELD/ROS-1		

Report No.: MSKPUED/2023-24/2120AR

SIA

Sample No.: MSKNB/ED/2023-24/01/UH246-

RESULT

Chemical					
SI No.	Parameter	MOII	Method	Limit	Result
A	Areanie sa (As)	nginis	USEPA IO 1.4, June	6 (Annual)	BDUDLIG
2	Benzene	esiaro gm/m3	IS 5182 (Part 11)	5 (Annual)	BOL(DL-4-2)
3	Barrao(a)Pyrene	rig/m3	15 5182 (Part 10)	T (Annual)	DOLIGLES!
* 1	Lord (se Ph.)	Cerlyng project	USEPA-10-11-4, Julio	1 (24 Hours)	5.04
6	Mongansee as Mn	enera govino	USEPA-ID 1-A: June	Not Specified	0,31
6	friction) mar 741	ng/m5	USEPA-D 3.4, June	20 (Annual)	10.8

Opinion -

Limit as per QPG6 nutrication, him Geth, non-homember 2009; for Amusen; air quality

Statement of Conformity

END

Neverwest By

Name

all banuary of. Dr. Deyttar Salayo

Ovegreiter

Technical in strange

Authorized Sgrattry

Servicios.

The locally rakes very to the involet posts.

The Test Report shall not be reproduced press in his content in previous of Man & Procedure Livered.

The responding for property for procedure content is necessary to provide the procedure of the following for the following for

The constitution of the interpretation of the control of the Contr

Address of Branch:

P.O. Bartil Di Kooniner Orista 758 (GS)





Scan by June

Name & Address of Customer :

Tata Steel (III.IMCM) Joby West

Al/Po. - Jode, Unit. - Keorifiat, Odisha - 758034. India Pin

TEST REPORT

Report No.:

Data

Sample No.:

Reference No. & Date :

M5NGL/ED/2020+Z4/004496

10/9/202024

MSKGL/ED/2023-24/0 100806

3000156917. Date - 25/06/2023

We havely cirtly that the following sample Drawn by us has been equipmed with the following results:

1, Group	VEI
2. Descripson of sample	Antierz Air
3. Unique (dentification of exemple(if ung)	Juda Wusi Irea & Mr. Min
4. Date of sampling 5. Pitos of sampling	16/01/2024
a Environmental corollitars during sampling & Transport	NEAR TIME GETICE INDUAL
Scampling Plan & Markov) usurd	Giorra & Giorra

Report No.: MRKGL/ED/2023-24/00/496

Sample No.; MSKGL/ED/2023-24/01/00505

RESULT

2160.	Paramating	NON	Minneg	Limit	Result
1	Ammorau (NH3)	micro general	15 5102 (Part 25)	400 24 HR.	1166
7	Carson Morocode (CCI)	103/60	111.51 (2: Plan 10 (3598 (Remi 2014) (HDIP), (10)	2 1949	0.46
+	Nirogen Dioxide (NO2)	micro gm/m8	(5 5)39 Parti (2005 (RealE2012) (D)	80 24.16t	16.5
-0	Otore (G3)	mican general	JS-5162 (Part 9)	180 I HR	BOYOT 301
b	Particulate Matter (<10 um)	Briving viows	6: 5142 Fac 21:2000 (Right 2010) (0)	100 24 HH.	
.0.	Particulate Matter (<2.5km)	Trion gmm2	15-5182 (PT-24) 2019 (D)	F0 24 HR.	99.4
7.1	Solutius talande (SCI2)	shrimg cerum	G 5182 Part 2 2001 (Rous 2012) (D)	80 24 MR.	8.8

___END -__

Report Verified By



For Mitra S. K. Private Limited

Authorised Signatory

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Fage 1 of 9

Address of Laboratory :

Bollding No. P. 48, Udayan Industrial Strate. 3, Pagledanga Road, Kellona 700015 West Respe

AMPO. - Joda: Clar. - Kecentari, Cidana - 750034 Indus

Tel. 7 + 1 704403/11/20 Email udayanie @micrasi.com

Tara Steel Ltd.(MGM) Joda West







DOCKS, MEKKEDAHARI

Bean for Portal

ULR: TC-695024000001834I

TEST REPORT Name & Address of Customer :

Report No. :

Date:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/81215W

06/02/2024

MSKNB/ED/2023-24/01/DR3C94/

27/01/2024

27/01/2024 - 06/02/2024

Permanent Facility

3000156017/056, Date - 15/09/2023

Chemical

We hereby corely that the following sumals Crown by its has been analyzed with the following man

1, Group	Atmosphine Pellulian	
2. Description of sample	Ambient Air	
2. Unique Identification of sumple(if ant/)	NA NA	
Date of sampling	22/01/2024	
5. Plece of sampling	Near D-Ouery Shoting Yard	
5. Environmental conditions during sampling & Transport	1) Temperature 15-30 pag G 2) Barometric Pressure: 734 mm of Hg 3) Rein foll No 3: Cold Crain Maintained	
f. Sampling Plan & Method used	19.5160(P-11.12) \$ USEPA	
f. identification of the personnal performing sampling by MSA.	Akash Ke Serry, Prolik Kr Mantri	
9 Flaid Equipments Used	MINUBLIFIELDROS-G	

Report No.: MSKPL ED/2023-24/81215W

NA

Sample No. : MSKNB/ED/2023-24/01/DN3C9//

RESULT

Shemingal						
5) No.	Parameter	DOW	Method	Limit	Result	
7	Atsenic as (As)	ng/m3	LISERA-ID 3.4. June	S (Annual)	BDL(DL:1.0)	
2	Benzena	imicro gev/m3	IS 6182 (Port 11)	5 (Annual)	BDL(DL 4.2)	
3	Benzo(a)Oyrane	Cm/gn	IS 5182 (Pavl 12)	1 (Annual)	EDL(DL-0.5)	
A	Lead (as Ph.)	crisco grovino	USEPA-IO J.A. June	1 (24 Hours)	BOLIGE CON	
5	Manganese as Mn	minro gm/m3	USEPA-IO 3.4: June	Not Soughed	0.12	
6	Mickel as MI	crg/rii0	USEPA40 3.4, June	20 (Annual)	BOL(OLT/O)	

Opinion -

Lind as pur CPCS natioation, New Jehr, 18th November 2003, for Ambient air quality

Statement of Conformity

END -

PRINTERNAL BY

Sepanni

Mr. Four Generally

Datignation Executive Chancel

Automosi sin

Sprann

Herentselen

Mr Hisk Geoguly

Executive Chomas

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fluid Official

Price Corps (no. 5 per , Fee A LC Compress) Coasts - 7600th, West No. 54 (see) see To 191 23-4 ((4,00)) (2)(2003)) Fee: 91-33-22(5)0005 To all 1-50 (see - see) West No. 191 (see) (2)

Page 1 of t

Address of Branch:

P.D. Barba Di Knownar Orissa 758 (75)





Sont hit Partie!

Name & Address of Customer ;

Total Steel Lid, (MSM) John West

At/Po. - Joda. Cist. - Keorgsar, Odsche - 758034. India Pin

TEST REPORT

Report No. :

Date:

Sample No.

Reference No. & Date :

MSKGL/ED/2023-24/004533

10/02/2024

MSKGL/ED/2023-24/01/00/06

3030186017/056; Dale - 15/0 (2023)

We havely evenly that the following sample Evenus by as has been analyzed with the following results

t, Group	AR
L. Description of sample	Arthism Air
L Unique Identification of namuse(d say)	Joda Wein Iron & Mis Mines
4. Early of sampling	22/G1/MIM
I Proceduration	Near C-Turne Shorting Vand
9. Environmental assessions during sampling & Transport	Closery
7. Sampling Plan & Mathed and	NA

Report No. | MEXCL/ED/0023-34/014513

Sample No.: MSKGL/ED/2023-24/01/00986

RESULT

SI No.	Marameter	HOM	Marriag	Limit	Result
1	Ammonia (NHS)	medici gravino	6 5182 (Pert 25)	400 34 HR	33.0
.0	Carbon Monoxee (CO)	mg/m5	IS 51102 Pay 10, 1999 (Hunt, 2014) (NOR), (O)	2 SHR	0,45
1	(Hingen Dioidda (HD2)	micro grumā	IS-BIBD: Part 6:2000 (Yeart 2012) (0)	80 24 HR	290
4	Oznne (O3)	Emiraj ocum	15 51 (DX (Fract 9)	180.1 HR	BDL(DL 20 0
-	Particulate Matter (< (Quest)	Whate grown)	S 5152 Part 21 2500 (Rein 2013) (0)	100:24 HR	15/
E	Personatio Matter (<2.5um)	Tening main	IS 5182 (PT.24),2019 (3)	.60 24 HFL	78-
7 1	Sugan Diova (SO2)	mean graves	15 S182 Part 2:2001 (Rest 2012) (0)	80 24 HfL	7.0

ENU

Report Verified By

For Mitra S. K. Privatu Limited

Authorised Signatory

Head Office: Sync II Care on the Floor, PAS ALL C. Base Mant. Kokous - 700000, street Berget, body.
Tel. - 61 (25 care of the Care of the

Page 1 of 1

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate 3. Faulinianya firand, Kalkata 700916 Wint Burgall Tel: +91 7044036120 Email udayaniab@m/tusk.com







Scan for Portal

ULR: 1C-695024000001835F

DOC WILL MEKOGERHOLD

TESTING + Hamechion

Name & Address of Customer:

Tain Stee Lid.(MGM)_Joda West

AVFIX - Joua Dist. Meanings, Mashe - /58034 Initia

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

M8KPL/E17/2023-24/L1216F

D5/03/2024

MSKNB/ED/0021-24/01/EZ3005

27/01/2024

27/01/2024 - 06/02/2024

Permanent Facility

3000156017/056. Clate - 16/09/2023

Chemical

We hereby centry trut the following sample Dimon by unloss hours maly and mile the milesting results.

1. Group	Almographeric Polistian
2. Description of sample	Ambient Air
5. Unique Identification of sample(fl.agy)	NA .
1. Deter of sampling	22/01/2024
J. Place of sampling	Mear D-Cluismy Screen
6. Environmental conditions during sampling & Fransport	IV Tecominium 15-30 dag C 2) Barometric Previous: 734 mm of Hg 3) Rainfal No A Cold Chain Manustrad
7. Sampling Plan: & Method used.	35 (A)(P-1 \ / 2) & USEPA
8. Identification of the personnel performing sampling by MSK	Aksali Xi Setry, Prati: Nr Marry
9. Field Equipments Elaud	MSK/BBL/PIELORDS-8

Report No.: MSKPL/ED/2023-24/L1215F

Sample No.: MEKNB/ED/2023-24/01/EP3CCS

RESULT

thermical control of the control of						
51 No.	Parameter	DOM	Method	Limit	Result	
1	Amenic in (As)	ng/m3	USEPA IO 5.4. Junii	-5 (Annual)	DDL(DL:1:0)	
2	Benzens	micro gm/m2	15 6182 (Part 11)	5 (Annual)	BDL/DL/4 2)	
3	Benzo(a)Pyrene	ing/m3	15'6182 (Part 12)	1 (Annual)	BDL/DL/0.6)	
4	Land Lan PB (micro gm/m3	USEPA 10:14, June	1 (24 Hours)	BOL(DL:00)	
5	Monganoso as Mn	micro govina	USEPA-10 3.4 June	Not Specified	0.17	
6	Nickel as Ni	opms	USEPA-40/3.4, June	20 (Amnusi)	BDL(D4:5 D)	

Opinion .

Limit so yar SPGB colficiation, New Jerri, 16th November 2009, six minimum or system.

Statement of Conformity NA

END-

Discussion But

Signature Mains

Hs. Fluir Curypsy

Designation Executive Chim int.

Authorized Signatory

Denignation

Ms. Plat Garquey

Entered on Charma

Time (results relation early to the married) temper.

The Two Securities he be one should extend the service when writing the commission of March 8. Proper Land.

The released part of surgicity for characteristics when persented confects Food, Water) and be related for 45 days from the family of the Test Report. Porcharacteristics of relation 2 days from the date of the Test Report.

The relation of the Test Report.

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Page | off



P.O. Bertal Of Keonius Onius 758 035





School of Persons

TEST REPORT

Name & Address of Customer:

Tota Swell I of MCMs room Word

AVPo; - Jocas, Dist. - Keongruet, Odmins - 758034. India Prin

Report No.:

Date:

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/004584

16/08/2024

MBRGIL/ED/2023-24/01/0096T

MBRI1560577056, Date - 15/09/2023

We needly contry that the ballowing sample Drawn by us has been arranged with the following restrict

1. Group	AR
2. Description of sample	Ambient Alf
5. Unique lucretization of semposts any	Joda Wild Iron & Mri Mines
4. Date of compling	22/01/QUISM
5. Place of sampling	Mine D. Curry Second Plant
5. Environmental conditions during sampling & Transport	Coudy à Hami
7. Sampling Plan & Morrood travel	NA .

Report No.; MSKGL/ED/2023-24/004534

5ample No.: MSKGL/ED/2023-24/01/00987

RESULT

BHHs.	Planarmeter	now	Metrico	Limit	Result
1	Amelonia (WHS)	Bening craim	3 5162 (PM 26)	400 24 HR:	20.9
2	Carben Manoxide (CQ)	ing/ma	IS 6102, Part 10 (1929 (Roulf 2014) (NDRS (0)	2 BHR	0.77
2	Milroger Dicolde (MO2)	Enling orsim	IS S162 (Part 9: 2006 (Reaf 2012) (D)	80 24 HR.	20.6
4	Ocone (O3)	micro tening	(S:5182 (Part 9)	180 1 HR.	BOL(DL:20,0)
- 5	Participale Matter (<10cm)	Emmg (mim)	15-5162 Port 23:2006 (Resill 2012) (D)	200 24 HR.	142
Ð	Parendato Matter (<2.5um)	Enving arcim	IS.5182 (PT-24)(2019 (O)	50 24 HR.	72
To I	Surpline Decede (SCO)	migra gm/113	16 5162 : Part 2 (2001 (Realt 2013) (O)	90 24 HFL	7.3

___ END ___

Report Verified By

For Mitra S. K. Private Limited

Address of Laboratory:

Building No. P. 45, Udayan Insuminat Examp.

3. Papersonna Rosel, Kuhana 700010
West Resulat
Tel.: +91 7044038120
Email udayan sonjimil was com







DOCAL MEMORINARY

Suan for Portal

ULR: TC-695024000001838F

Name & Address of Customer :

Tata Stee Ltd (MGNI) Joda West

AliPo, - Joog. Olst. - Regnjihar Cirtains - 758034 India

TEST REPORT

Report No. :

Date :

Sample No. :

Date of receipt of sample:

Dete(a) of performance: Location of performance of

Roference No. & Date :

Discipline:

MSKPL/ED/1023-24/012167

66/02/2024

MIKNB/ED/2021-34/01/P83GAB

27/01/2024

27/01/2024 - 06/03/2024

Parminent Facility

3000158017/056, Oute - 16/09/2023

Chemical

We hereby comity that the following sample Orient by us has been analyzed with the following receive

1. Group	Amospheric Poliulien
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA
h, Date of sampling	22/01/2024
5. Place of assigning	Near N-Coreny Rest Scaller
5. Environmental conditions during antipling & Transport	 Temperative 15-30 deg C 2) Barometric Pressure: 734 mm of rig 3) Raw tal No & Cold Chain Maintained
7: Sampling Plan & Method used	15:5163(F-11,12) & USEP#
a. monification of the personnel performing sampling by MSK.	Alash sv Selny, Pratit Kr Marmi
8. Field Equipments David	MANURHLAFIELDIROS)

Report No.: MSKPL/ED/2023-04/012157

Sample No.: MSKNB/ED/2023-24/01/P83CAB

RESULT

Chemical						
81 Nr.	Parameter	LIOM	Method	Limit	Result	
1	Arsenic as (As)	linker	LISEPAJO 34, June	0 (Annual):	BOL(DUT.0)	
2	Sanzene	micro pm/m3	IS 5182 (Park (11)	5 (Annual)	BDL(DG+2)	
3	Benzo(a)Pyrene	ng/m3	(S-51/12 (Port 12)	1 (Annual)	90L(0L,0,5)	
4	Lead (as Phi)	Imicro gralmi	USEPA (0/5.4, June	-1,24 Hours	0.00	
5	Manganase as Mit	micro gm/m3	LIBERA-10 3.4: June	Net Specified	Det	
6	Nickel as fü	Enrign.	USEPA-IO 34 June	20 (Armout)	12.2	

Opinion-

Limit as per GPCB notification, their Date, 18th November 2009, for Ambrew as spelly

Statement of Conformity

MA

--- END ----

Funnamentally

Signature

Divisionation

Remo

Mrs. Flat Gency by

Expeditive Charges

Authorized Signatory

opens

Mr Fai Dirgsly

Design.

Designation Economic Commit

The result would duty to the settle; bested

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Head Office:

Page 1 of 1

Address of Branch !

P.O. Bartis Di Kuommar Ollega Y58 (ISS





Scan ire formi

Name & Address of Customer :

Thin Stani Ltd.(MGM) Jossi Wear

ANPo - Juda, Dell. - Keumpar, Odsho - 758034. India Pin

TEST REPORT

Report No. :

Date "

Sample No. :

Reference No. & Date :

MSKGL/ED/2023-24/004300

10/02/2024

MSKGL/ED/9023-24/01/00088

3000186017/056 Date + 15/09/2023

We havely curtify that are belowing sumple Drawn by us has been manyoned with the lessowing results.

1, Group	AIR
2. Description of sumple	Ambient Air
T. Unique Identificațion of sample(if unit)	Jose West from & Mr. Myron
4. Date of sampling	22/01/2024
5, Place of surpling	New H. Outery Rule Shallor
C Environmental consistent during rempling & Transport	Clear & Jugan
L. Stampling Flori & Michael appli	NA NA

Report No.: MSNGL/ED/2023-24/094500

Sample No.: MSKGLEUI2023-24/01/00888

RESULT

nalysis	nalysis Result of Ambient Air						
Si No.	Paneralir.	UGN.	Motivat	Limit	Result		
1	Ammonia (NH3)	micre growns	ft 5182 (Part IS)	400 24 HGL			
2	Garcon Manoxide (CO)	majnia	(S 5102 Fact 10 1888 (ISSNE 2014) (MDR), (0)	2 line.	16.B		
-8	Mitrogen Directe (NO2)	Emiring arount	IS 5102 ; PAR 6 2000 (Raph 2012) (C)	80 24 HF	Contract of the Contract of th		
4	Ozmre (OS)	militare generals	85 5182 (Fwr	180 1 HR	19,6 BDL/D(20 //		
2	Participate Million (~19um)	Elimenta properti	18 6:82: Part 23:20:5 (Res. 1, 2012) (O)	100-24 HR.	179		
д	Patricular Maser (<2.5cm)	Harn gm/m3	18.6182 (PT-M).2019 (G)	B0 24 HR			
7	Sulphor Dissilin (SO2)	+occs quimb	\$5182 Par 2 2011 (Healt 2012) (0)	BIT 24 HIR	7.5		

FMD

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 45, Udayan Industrial Enlane. 3. Paginlanya Rusal Kolkma 700015

Wieni Brangni

Tel.: +91 7044036120 Email unayers b@mirask.com





DUCKS MSWITZ-WHITE

Bean for Portal

UILR: TC-6960240000001833F

Name & Address of Customer:

Tata Steel Ltd.(MGM). Joda West

AdPo - Joda Dec. - Keonjiar Cosus - 758034 Intia

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of parformance of

Reference No. & Date :

Discipline:

MSKPL/ED/2020-24/R10HEZ

06/02/2024

MSKNB/ED/2023-21/01/AM3C9V

27/01/2024

27/01/2024 - 06/02/2024

Permangni Facility

J000156017/056; Date - 16/08/2023

Chemical

We hereby cartify that the following sample Drawn by us has been analyzed with the following moule-

1. Group	Almorphore Politica		
2. Description of sample	Ambient Air		
3. Unique identification of sample(if any)	NA NA		
6. Dain of sampling	22/01/2024		
I. Place of sampling	Near Time Office		
Environmental conditions during sampling & Transport	1) Temperature 16-30 mag C 2) Barometric Pressure: 734 mm of Hg 3) Rain hall		
7. Sampling Plan & Mishod used	NG & Cold Chain Maintained IB 5182(P-11 10) & USSPIA		
s. Identification of the personnel performing sampling by MSK.	Algach Kr Saitty, Pretik Kr Martin		
7. Flold Equipments Used	MINURAL PRELIMPOS-2		

Report No. : MSKPL/ED/2023-24/R1215Z Sample No.; MSKNB/ED/2023-24/01/AM3C8V

RESULT

(kamica)						
Si No.	Parameter	MOLE	Method	Limit	Result	
1	Assenio es (As)	ngimā	LISEPA-IO 9.4, June	5 (Annual)	BOLIDLES	
2	Benzene	micro gm/m3	(\$ 5182 (Part 11)	& (Annual)	BDL(DL.4.2	
3	Benzo(a)Pyrene	Pg/m3:	IS 5182 (Part 12)	1 (Agmud)	BBLIDLES	
4	Limit (in Ph.)	micto gm/m2	USEPA-10 3.4, June	1 (E4 (fours)	0.04	
5	Wanganese as Mn	micro gmima	LISEPA-10 3-4: June	Not Specified	0.28	
6	Mickel as Ni	Emgn	USEPA40 34, June	29 (Annual)	6.3	

Domino

Limit as per CPCB netfication, New Date, 18th November 2005, for pursues at small year.

Statement of Conformity

END -

Barnwell By:

System

Ms. Pair Gargaly

Designation Executive Chemist

Authorized Signatory

Mr. Pak Gargaly

Devignation

Extrastive Diversal

The results posses or in 12 this formula instant.

This Trust what my semigraph and except in this extent the permission of litera 0.4. Provide Landon.
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Address of Branch:

P.D. Barbi Di Kanghar Orsan 758 035





Som he form

Name & Address of Customer:

Tale Skiel Ext. MGML Joda West

ANNo: Jode, Diel. - Keunter. Odstru - 758034 India Pir

TEST REPORT

Report No. :

Date:

Sample No.:

Reference No. & Date

MSKGL/ED/2023-24/004541

8902/2024

MSKGL/ED/2023-24/01/0086

30001560 (T/056, Date - 15/09/2021)

We havely untily that the tolowing sample Drawn by us have heart comboned with the following

1, Group	AR	
3. Deotription of veruple	Ambient An	
3. Unique (damination of surgic(i) eng)		
4. Date of sampling	Joda wini don & Mi Mines	
5. Piece of sampling	20/01/0094	
s. Environmental specificus during sampling & Transport	Nanr Time Office.	
Sampling Plan & Monay and	Chindy	
	NA	

Report No.: MSKGUED/2023-24/004541

Sample No.: MSKGL/ED/2023-24/01/000es

RESULT

Analysis Result of Ambient Air							
SI MU.	Persenutur	NOR.	Meltind	Limit			
1	Arrenonia (93-03)	missi grivest	IS S182 (Part 25)		Result		
2	Carbon Monoxide (CO)	mgms	15.5182 Per 10.1989 (Healf, 2014)	400 24 HR.	133		
3	Milmjan Divide (NGC)	micro-gm/m2	(NDIR) (D)	2 BHR.	0.44		
4	Danna (O3)	mitto quelma	S 5 (62 : Part 6 2006 (Riast 20172) _(0)	80.26 in.	17.6		
4	Paraculate Metter (<10mm)	micas gaving	S 5162 (Part 5) 15 3 (12) Part 23 2006 (Neart, 201.0) (D)	196 THE	BDE(DE-20.0)		
W.	Perentage Matter (<2.5um)	microspa/mil	S 5192 FET 341 - CORP. (D)	100:24 HR.	170		
7	Suprimi Dicean (SO2)	PIGV SIMILE	(5 5182 PF-24),2010 (0) (5 5182 Per V 2011 (Real(2012) (0)	60 24 HR 80 24 HR	B6 A =		

ENO -

Report Verified By

Heat Office:

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. 12-49, Utayan Industrial Estate, T, Fagladanga Hond, Konsas 700015 Water Bergal

Tel.: +91 7044038120 Email: udeyanlab@mitraxs.com







Scan for Portal

ULR: TC-895024000001838F

DISTNO MONGENTED!

Name & Address of Customer:

Tata Size! Ltd (MGM) Joda West

AVF u. - June: Trist - regripher, Costne + 758034 India

TEST REPORT

Report No.: Date:

Sample No. 1

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/V12180

06/02/2024

MSKNE/ED/2023-24/01/TV3C7C

27/01/2024

27/01/2024 - 05/02/2024

Permanent Factors

3000158017/066; Dam - 16/09/2023

Clienical

We hereby cartily that the following sample Comen by us has puer analyzed with the helpwing results.

1. Group	Allmoughbrid Policiles		
2. Description of sample	Ambient All		
3. Unique identification of sample if any i	NA NA		
4. Date of sampling	22/01/2024		
2. Pace of sampling	Wear Carmeigurio Pil		
6. Environmental conditions during sampling & Transport	 Temperature, 15-30 dag C 2) Barometric Pressure, 734 mm of Hg 3) Ram No & Cold Chain Maintained 		
7. Sampling Plan & Method (Issuit	IS:6182(P-11.12) & USEPA		
I. Identification of the personnel performing sampling by MSK	Allash Kr Sethy, Pratts Kr Mantri		
Field Equipments Used	MSIVBBL/FIELD/RDS-4		

Report No.: MSNPL/ED/2023-24/V1215Q

Sample No.: MSKNH/ED/2023-24/01/TV3C7G

RESULT

Sherrical Committee Commit						
Parameter	UOM	Method	Limit	Result		
Ansimic asi (As)	fm)gn	USEPAIO 5.4, June	& (Annual)	BOUGHT 10		
Benzene	micro granti	(S 8182 (Pari 11)	E-(Annual)	DDL(DL/4.2)		
Benzo(a)Pyrece	mg/m3	IS 5142 (Part 12)	T (Amnout)	BDL(DL.0.5)		
Laid (as P5.)	miseo genérali	USEPAHO BA, June	1 (24 hours)	9.02		
Manganese as Mn	mise grown?	USEPA-IC 3.4 June	Not Specified	0.21		
Nickslas Ni	Em/gn	USEPA ID 3 4. Iline	20 (Annual)	25.1		
	Americ :: (As) Benzeje Benzoja)Pyrece Lead (as Pb.) Manganese as Mn	Ansanic as (As) ag/m3 Banzana micro gm/m3 Benzo(a)Pyrece ng/m3 Lead (as Pb.) micro gm/m3 Manganese as Mn micro gm/m3	Americ 26 (As) ng/m3 USEPA-IO 3.4, June Benzene neico grum2 ISB182 (Pan 11) Benzo(a)Pyrece ng/m3 ISB182 (Pan 12) Lead (as Pb.) neico grum3 USEPA-IO 3.4, June Manganese as Mn nice grum3 USEPA-IO 3.4, June	Ansanic as (As) ng/m3 USEPA-IC 3.4, June 8 (Annual) Benzene nico grum3 IS 8182 (Part 11) 5 (Annual) Benzo(a) Pyrece ng/m3 IS 6162 (Part 12) 1 (Annual) Land (as Pb.) nice grum3 USEPA-IC 3.4, June 1 (24 hours) Manganese as Mn nice grum3 USEPA-IC 3.4 June Not Specified		

Limit as per CPOB necreation, New Derry 10th November 2005; or remaining quarty

Statement of Conformity

END -

Royaled By

Stylmen

Ms Plot Garguly

Designation

Essective Creaming

Authorized Signings

Significan

Executive Chinesis

Tith rmulti-wate any to he dient(s) leaded.

The Text Report may not be reported or recording to all defend the provinced date in it. Provide Landard:
The recorded part of early antitional for the first ordinary ordinary could be optioned for the first first field of the Text Report Fernandal surplay; challed the plants for the first of the Text Report Fernandal surplay; challed the plants from the land of the Text Report Fernandal surplay; challed the plants from the land of the first field of the first field of the first field of the first field of the field of the first field of the fie

The manters part of suggested in commits suggested for a facility of the facility of the suggested for the facility of suggest

Address of Branch !

P.O. Barbil Dt Knorthar Orssa 756 035





Scan for Percal

Name & Address of Customer:

Teta Shel Litt (MGM)_Joda West

At/Po, - Jeds, Chit. - Keonfile - Odieha - 75605- India Phi

TEST REPORT

Report No :

Sample No. :

Reference No. & Date :

A15KGL/ED/2023-24/004547

111/02/2024

MSKGL/ED/2(23-24/01/0009)

3000110017/05G Date - 15/00/2023

We needly circuly that the following remain Drawn by us has been assistant with the television has the

7. Genup 2. Descriptors of pumpre	AIFR
Unique Identification of cample(if phy)	Aintsign) Air
Date of sampling	Joda West from & Mn Misses
Place of sameling	22/01/2024
Communicated conditions the log sampling & Transport	New Glamphyndo 7
Simpling Jun R Melneri med	Grad)
Company of their is seemen made	NA .

Report No.: MSKGL/ED0023-24/004547

Sample No.: MSKGL/ED/2023-2401/00090

RESULT

SIND	Parameter	SOM	Bernod		-
1	Ammonia (NEG)	The state of the s	111000	Limit	Plesutt
-	The second secon	rekito granta	IS 5102 (Part 25)	680 34 HR	75.8
2	Cartain Manoonin (CO)	Limite	IS S162 : Part 10 : 1989 (Reset 2014)		
3	Albrogen Linxida (NO2)	market model of	(M) / (M)	2 894	0.36
4	the second secon	sminto gmimal	IS STILZ : Parin 2006 (Final 2017) (O)	80.24 HR:	34.2
-	Oatme (193)	Sound now	(Enshipsies)	180 1 HPL	-
5	Particulate Matter (<10cm)	Enfring craim	25 5102 Part 29 2006 (Flexifi 2012) (O)		BDL/QL/20/0
12	Frantiskere watter (<2.50m)	miam omind	10 14 14 14 14 14 14 14 14 14 14 14 14 14	100 24 100	100
1	Supher Disorde (SD2)		85.5182 (P1 24),2019 (O)	60 24 HR	88
-	Andrew Pierres (2075)	migu gains	18 5181 Part 2 2001 (Real (2012) _10)	80 Z4 HR	8.3

ENG -

Report Verified By

Hind Office:



For Mitra S. K. Private Limited

Address of Laboratory:

Bolitim No. #- 48. Udayan Industrial Estate. 2 Paglatanga Road, Kolketa 700015

Name & Address of Customer:

KI/PG, - 3008. Dist. - Neoniner, Odenia - 758034. India.

Tata Steel Ltd.(MGM)_Joda West.

West Europal Tel: +91 7044036120

Email: udayunlab@m/iraak.com







Scan for Portal

MSXPLIED/2023-24/R1215X

27/01/2024 - 09/02/2024

Permanent Facility

MSKNB/ED/2003-24/01/CT3CBIT

ULR: TC-695024000001837F

Doc.No. MISKYGEN/1907

TEST REPORT

Report No. !

Date: 08/02/2024

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

3000156017/DEG Date - 16/09/2023

Chemical

27/01/2024

We havely cartify that the following sample Drawn by an iron hours accepted with the following receipt.

1. Group	Atmosphere: Poliusion		
2. Description of eample	Amblent Air		
2. Unique identification of sample(if arre)	NA.		
4. Date of sampling	22/01/2024		
s. Place of sampling	Neut Rollway Stding		
6. Environmental conditions during sampling & Transport	5) Temporojum (15-20 deg C 2) Barometric Pressure: 734 mm of Hg 3) Rain tall No. 8 Cilid Citato Maritished		
f. Sampling Play & Moting ward	IE 5/82/P-17, 1/1 & USEPA		
II. Identification of the personnel performing sampling by MSK	Alcash Kr Sethy, Printil Kr Manth		
9. Field Equipments Used	MBNB9L/FIELDIRDS-3		

Report No.: M5KPIJEDV2023-24/R1215X

NA

Sample No.: M5KNB/ED/2023-24/01/QT3CHH

RESULT

Shemical						
St.No.	Parameter	DOM	Method	Limit	Result	
1.	Atteribay (Asl	rg/m3	USEPA/O9.4 June	6 (Arimial)	BDL(DL:1.0)	
2	Benzene	Enling orden	IE 5182 (Par) 11)	5 (Annual)	BDL(DL42)	
3	Benzo(s)Pyrene	ng/m3	18 9182 (Harl 19)	1 (Annual)	BOLIDL:0.59	
4	Load (se Pb)	miero grn/m3	USEPA /O.S.A. June	1 (24 Hours)	0.09	
5	Manganese as Mn	micro gm/rs3	USEPA10.34 June	Not Spection	0,60	
5	Nickel as Ni	ag/m2	USEPA-ID 3.4. June	20 (Alytical)	22.7	

Oplnion:

Limit as per CPCS members, New Cethi, 19th Provention 2005, for Pendigot air goality

Statement of Conformity

END.

PROPERTY NA

Mil. Plat Ganguy Name

Designation | Executive Chemist

Алексея Бірттону

Significan

5 H-3

Code live Charie

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Hoad Office:

Smooth larver (St. Franc), 184 A.J.C. School most promote (19214), Wee (Mage) Institute wit 19 45 14 (005 / 225500) Fig. (91.33 235000) Specific (1925) Francisco (1927) White is now missed poor

Page Fol 1

Address of Branch:

P.O. Barrie Of Keonjilas Onesia 758 USB





Scur. toy Portal.

Name & Address of Customer:

Tubi Ston(Lic/MGM)_Joan West

AUPp. Jone Der. Kecelter, Odelar 158834 India Ph.

TEST REPORT

Report No. : Date :

Sample No.:

Reference No. & Date :

M5KGLE1X2023-24/004560

TUNIZ/ZED/A

MSKGLEDQ02H2MHM09I65

1000156017/055, CMid - 15/00/0023

are nently corply that the following tempts Drawn by on box been analyzed with the following results

Graup	AH
Description of sample	V-11-
Unique Identification ni sample(6 any)	Artifiert Air
. Date of sampling	Jieda west iron & Mn Minas
	22/01/2024
Place of sympans;	Maint Rakkepe Saldae
Environmental conditions flusted supplied & Transport	
Sampling Plan & Melhed Inne	Climity

Report No.: MSKGL/EDIQUID-24/004680

Sample No.: MSKGL/ED/2023-24/01/00969

RESULT

Analysis Result of Ambient Air						
SI No.	Parameter.	LUCKA.	n amod	- 46		
1	Ammonia (NHS)	micos guenta		Limit	Result	
	Carpon Musualde (CO)		15 5182 (Peri 25)	400 24 HR.	16.6	
-	CONTROL MUNICIPAL (CO)	(Fintella)	MORE OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	2 IMR	0.76	
7	Wittegen Directs (NO2)	mon-poted	15 5192 : Part ti (2006 (Reaff, 2013) (JO)	-	270	
4 -	Chrone (CO)	micro qui/mil		10.24 HR.	28.0	
8	Histocutana Memor (<: (Quest)		15 5182 (Part II)	180 1 HR.	FIGURE CONTRACTOR	
2	Plancasin Matter (<2,5cm)	Enlore control	S 5192-Pain 23-2506 (Resilt 2012) (D)	100/24 HR	360	
7 1		En/mg arcien	IS 5182 (FT-24),2019 (D)	00 24 HR	100	
	Suphur Diudde (S02)	mian gmint	IS A NEZ Part 2 2001 (Rest) 2012; (0)	80 24 HR	7.5	

-EMD -

Report Verilled By

Head Office



For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. 46, Udayan Industrial Estate. Pegladanga Ruad, Kukata 700216 West Shrigati

Tel::+91.7044036128 Email: udayenlab@mitrask.com







Same for Partal

ULR: TC-695024000001836-

DISTANCE MERCOENUSANT

Name & Address of Customer:

Taia Shei Ltd.(MGM) Joda West

AMTY, - Jode, Dist. - Knorther, Doesna - / 56/254 19092

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSNPL/ED/2023-24/41215L/

00/02/2024

MSKNB/ED/2020-94/04/580/CA

27/01/2004

27/01/2024 - 06/02/2024 Permanent Facility

3000156017/056, Data - 16/09/2023

Chamica

We herapy carrily that me bucking sancie Drawn by we has have analyzed with the following resource

I. Group	Strongonusis Pollution
2 Description of sample	Ambent Air
2. Unique (diretification of sample) any)	NA .
Date of Sempling	23/01/2024
Place of rempling	Near Time Office
Environmental conditions during sampling & Transport	1) Temperature : 15-30 day C 2) Barometric Pressure: 733 mm of Hg 3) Ram Int
Sampling Plan & Method used	No. A. Gold Chain Mertalnes 18,5182(P-11,12) & USEPA
a sourmeation of the personnel performing sampling by MSK	Akassit Vr Setty Lain Naki
Fisht Equipments Used	MSK/BBL/NIELD/RDS-2

Report No.: MSKPL/ED/2023-24()12150

Sample No. : MSKNB/ED/2023-24/01/383/CAT

RESULT

Si No.	Parameter	MOM	Method	Limit	Result
1	Arsenic as (As)	ng/mil	USEPA ID 1.4. June	& (Annuals	BDLIDE 1,0)
2	Bergene	micro gm/m3	16 5152 (Part 11)	ti (Annuel	BDL/DL 4.21
3	Benzo(a)Pyrenn	rig/m3	18 5185 (Pmi t0)	1 (Annum)	BDLIDL 0.5)
4	Lead (se Ph.)	Celling cryim	USEPANO 14 June	T (29 Hours) -	BOLIOLBION
5	Manganese as Mn	micro gm/rdS	MSEPANO 3 dr. Juliu	Not Specthed	0.28
5	Nickelas (Vi	reg/m3	USEPA-IO 3.4, June	20 (Armson)	800(0).5.0)

Optolon

Limit = per CPCS notification, New Osini, toin November 2009, for renaminar quarry

Statement of Conformity

MA

END

Deverored Sto.

Mis Pick Clergaly

Designation - Executive Chimnel

Authorized Signatory

THE HOLDS HARM, May In the Substitute of Section

The Test Report shall be improved present to be improved the province of Arms S.F. Province Landard.
The reported dust of responsy for character analysis (Non-permaph sample) floor Water) stall be reported for 15 page from the rate of the Test Report. Perimable samples, what we present 2 days Property of the of yourse of the Test Report.

The reserved part of completes the common stranger, the contract of the first process of the

to the Weight County of the ALL than their treatment of COUNTY West Bridge, help to the Weight County with the Weight County County of the Weight County Weight County Cou

Page 1 of 1

Address of Branch :

P.D. Bertal Dt Konnulum Orisso 755 035





Scan Sar Farry

Name & Address of Customer .

Tale Bleet Ltd (MGM) Joda West

AniPo. Jose, Dest. - Keonifear, Ocistra - 758034 Imple Phil

TEST REPORT

Report No. :

Date:

Sample No.:

Reference No. & Data :

M8KGL/CD/0023-2-V004546

10/02/202

MSKIE /EDWUX1-24/01/00901

3000156017/05/i. Data - 15/05/2023

We haruby cently that the tolkawing excepts Drewn by us less been analyzed with the following reports

1. Group	AR
2. Geocrapion di sample	Anthent Air
5. Unique Identification of sumpler II any)	Joda West ivan & Mr Massa
4. Date of sampling	23/01/2014
5. Place M. sampling	franctime (Office)
E. Environmental conditions during camping & Transport	Direct
7. Sarreding Pers & Method west	Yea

Report No.; MSKGL/ED/2023/24/004548

Sample No.: MSKGL/ED/2023-24/01/00881

RESULT

St No.	Phennetur.	UGM	Wetthog	715.4	
4	Rentson a States		2000000	Limit	Result
-	Arminonia (NHS)	men grima	15 5182 (Flant 25)	400 24 HR.	17.5
1	Carbon Monoside (CO)	ing/m3	15 17162 (Pain 10: 1988 (Paint 2514)	2 BHR.	0.51
3	Nitrogen (Ximida (NG2)	micm grums	15.5185 ; Part 5:2016 (Paul 2012) (D)	WO 24 HR.	21,2
4	Doone (C3)	micro gmm3	05.51(D (Part 9)	180 t HR	BDL(DL:20.0
3	Particulate Maller (<10cm)	miem aminiā	15 5162 Part 21 2006 (Res 70 (2) (O)	700-74 HR.	
. 6	Perturbate Matter (<2.50m)	micro gm/m2	IS 5162 (PT-24) 7016 (O)		201
7	Sulpinur Disselve (SOZ)	micro graves	(5.5182 Part 1, 2001 (Rest(12012) 40)	60 24 HR. 80 24 HR.	7.9

-END-

Report Verified By

For Milra S. K. Private Limited

Address of Laboratory :

Building No. P- 48, Lifeyan Industrial Estate, 5, Pagispanga Road, Koloma 700016 West Danyal

Name & Address of Customer:

AtiPo - Jone Dist - Kennjher, Ditsha - 758034 India

Tel +91 7044038120

Email: udayaniab@mtmsii,.tom

Tala Steri Ltd. (MGM)_Joda West







Scan for Portal

ULR: TC-696024000001840F

Doc No. MER/CRIMING?

TEST REPORT

Report No :

Dale:

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSAPL/ELYZUZU/24/L12166

06/02/2024

MBKNB/ED/2023-24/01/6X3CD

27/01/2024

27/01/2024 - ((6/02/2024)

Permanent Faccity

3000158017/058, Dale - 16/09/2023

Chemical

We hareby eartify that the inthesing sermile Creen by on her have seen unalysed with the syspenny equits.

1 Group	Atmospheric Poliulian
2. Description of sample	Ambient Atr
Unique dentification of sample(If any)	NA
A Date of sampling	23/01/2024
5. Place of sampling	Near D Quarry Shorting Tard
6. Environmental conditions during sampling & Transport	1) Temperature :15-30 (log C 2) Berontetric Pressure: 733 mm of Hg 3) Rein felf No 5 Cold Chair Maintained
7. Sampling Plan & Method werd	(5.5(82)P-11,12) & USEPA
it Identification of the personnel performing sampling by NSK	Alcssalt Vir Selby, Latin Walk
9. Frest Equipments Osed	WSWBBLFIELD/BDS-6

Report No.: WEICPLIED/2023-24/L12168

Sample No.: W5KNB/ED/2023-24/01/8X3CD7

RESULT

nemical					
SLNo	Parameter	HOM	Method	Limit	Result
4	Amenic as (As)	ngmi	LISSPA-IO 3.4, June	6 (Annual)	BOL(DL:1.0)
2	Benzene	micro onim≥	18 5182 (Part 11)	5 (Armial)	BOL(DL:4,2)
3	Bercro(a)Pyrene	ng/m3	(\$ 5182 (Part 12)	1 (Annual)	BDL(DLIGS)
4	Lead (se Pb.)	more gram3.	LISSPA-10 D.A; June	\$ (24 Hours)	90L(DE0.04)
5	Monganose as Mn	Emung oraim	USERA-IO 3.4; June	Not Specified	0.07
8	History me NV	rig/m3	USEPANO Side June	20 (Annual)	BOL(DL:5.0)

Opinion :

Limit as per CPOB netilibration, New Dutill, 18th November 2000, for Ambient or quality

Statement of Conformity 144

END

WORLING

Dwsignston Executive Connect Automet Signisory

Squature

Desgration

The results retain any its the device desired

The Test region staff on the reproduces amounts the immouths provided of staff 8.4. Provide Limited

The Human part is security for the recipient from particles company Food Welsh sharing the 15 days from the date of the Tee Ripport Perchasin serganist shallon relayed 2 also the date of the Tee Ripport Perchasin serganist shallon relayed 2 also

The sourced part of surround by the morphisms (Los Sourt & Loud World Sourt Source) and by the Country of the C

Address of Branch :

P.O. Barrill Dr Keonhar Oness 75/1003





Bear for Fortal

Name & Address of Customer:

Tata Steel (M.(MGM), Joths West

AnPu John Diet - Keenjaar Odena - 758034 India Pin

TEST REPORT

Report No. :

Sample No.

Reference No. & Date :

MSKGJUED/2023-04/004535

10/02/2024

M8KGL/III)/2023-24/01/00062

3800159017/058_Date - 15/01/2023

We nervely curtify that the following sample Drawn by us has been analyzed with the following results:

1, Group	IAR
2. Description of sample	Ambigiry Alv
3. Unique identification of antique(if war)	And a YYell goon & Mrs Mayor
4. Dias of earthfling	23/01/2924
5. Place of sweeping	West D-Charry Sharing Vand
Environmental considious storing compling & Transport	Cloudy
f. Strending Plan & Modrad used	NA.

Report No.: MSKGL/ED/2023-24/804530

Sample No.: MSKSL/ED/023-2401/00/02

RESULT

31 No.	Pannole	UDM	Motocci	1200	1
1 1	Ammonia (NH3)	mean griend	IS-5162 (Part 95)	400 24 HR.	Formulat
2	Liebra Monovide (CG)	rog/mi3	(Artis: Number: 1999) (1997) (1997)	2 BHR.	0.52
3	Attrogen Dioxide (NGZ)	man anim3	经 61型 - Part 5 2008 (Read 2012) (O)	80.24 HR.	32.2
4	Dzorie (SIS)	micro grama	(56/82 (Part 9)	180 1 HR.	UDL/PL 20 /
b	Particulate Maner (<10Lor)	micro present /	6 5102 Part 23 2009 (Realf, 2012) (0)	100 24 HR	153
9	Partouale Matter (¢2.5im)	mem gmimà	15 5182 (PT-24) (2010 (D)	60:24 HR	88
7	Singlan Dicolae (SD2)	Existing ocum	15/5782 Part 2 2007 (Rush 2012) (O)	80.24 HR.	9.6

-END-

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Address of Laboratory :

Building No. P. Mr. Udayan Indusoru Estate, 3, Pegindanga Road, Kosata 707015 Weis Bacquil Tel. +91 7044036120 Edital schwerzeb@irdfrask.tom







lican for Fortal

ULR: TC-895024000001841F

Due tim: MSKUSSWINGS

Name & Address of Customer:

Titta Steel Ltd. (MGM), Joda West

AVPo - Just Dax - Novinjus Cidena - 758034 India

TEST REPORT

REPORT No. :

Date .

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/212150

05/02/2024

MSKNB/ED#2023-24/01/D13/D8J

27/01/2024

27/01/2024 - 05/02/2024

Patmanare Footby

0000159017/058 Dain - 16/09/2023

Chemical

We hereby cortify met the following santale Dissun by us has been analyzed with the following results.

1. Group	Ath/oschwire Policaion
2. Description of sample	Ambiger At
5. Unique Identification of sample(if any)	NA.
Care of sampling	23/01/2024
1 Place of sampling	Near D-Quany Screen
E. Environmental conditions during sawgilling & Transport	1) Temperature: 15-30 deg C 2) Basometric Pressure: 733 mm of Hg 3) Rain fall
7. Sampling Plan & Method used	No & Cold Chain Mainteined & 5182(P-11_12) p USEPA
b, adaptification of the personnal performing sampling by MSK	Alkassit Kr. Sofly, Lenn Han.
9. Floid Equipments Used	MSA/BBL/FELDROE-I

Report No.: MSKPL/ED/2023-24/212150

Sample No. : MSKNB/ED/2023-24/01/D13C8J

RESULT

Parameter	DOM	Method	Limit	Result
Arsenic as (As)	ng/m3	LISEPAJD 3.4, June	S (Annual)	BDL(OL.1.0)
Bankehe	тысто атпіті	IS 5162 (Part 11)	5 (Arimus)	BDL(DL # 2)
Benzo(a)Pyrene	19/m3	IS 5182 (Part 10)	1 (Apeque)	BDL(DL 0.5)
Land (sec Ph.)	miero gaulm2	USEPA103A, June		#DUDLU.01)
Manganese es Mm	micro gm/m3	USEPA-102 & June	Not Specified	0.34
Nickel as NI	liging.			800(00.5,0)
	Arsenic as (As) Benzene Benzo(a)Pyrene Land (oc. Ph.) Manganese as Mn.	Arsenic as (As) ng/m3 Benzo(a)Pyrene sg/m3 Land (ac Ph.) micro-gru/m3 Manganese as Mn micro-gru/m3	Arsenic as (As) ng/m3 (ISEPA+D 3.4, Jone) Benzene mero-gmm3 IS 5182 (Part 11) Benzo(a)Pyrene sg/m3 IS 5182 (Part 10) Land (as Ph.) micro-gra/m3 USEPA+D 3.4, June Manganese as Mn micro-gra/m3 USEPA+D 3.4, June	Amenic as (As) ng/m3 (ISEPA-ID 3.4, June 5 (Annual) Benzele micro gm/m3 (IS 5182 (Part 11) 5 (Annual) Benzo(a)Pyrena sg/m3 (IS 5182 (Part 12) 1 (Annual) Land (sec Ph.) micro grown3 (ISEPA-ID 3.4, June 1 (24 House) Manganese as Vm micro grown3 (ISEPA-ID 3.4, June Not Specified)

Opinion +

Limit on year CPCB notification, New Diche, 18th November 2005, for reminent or quality

Statement of Contormity 764

END -

Providence by

Egrenie

Ms. Phil Geografy

Desgreton

Francisco Ciremos

Autorest Signatory:

Link in charge

The papers media only so the finning semant.

Tire The Harris start red by reproduced securit (1) (ii), where a line proposers of Alles S.K. Private Limited

The power of surplining by character arrange from provinces complete Front Western and the representation from the Test Report Personal Security of the Test Re here the manual energy little Test Powers

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Address of Branch 7

F.O. Haroll DI Keenihar Omsa 758 035





Sear for Process

Name & Address of Customer:

Torin Street Ltd. (MGM). Jorda Wassi

AWYG. - Joela Dist. - Kecrylter, Odishir - 758034 (iiiiiii Pin

TEST REPORT

Reference No. & Date

Report No.:

Sample No.:

M8KGL/EDI2023-24/004536

10/02/2024

.....

MSKGA/ED/2023-34/0/M0990

TUROD1950 17/065, Date = 15/09/2023

We hereby distrily that the following homele Drawn by us has been analyzed with the following resolve

1 Group	AIR
Z Description of sample	Aprilagent Au
3. Umique identification of sample(If any)	Joda West You & Mr Mines
4 Date of sampling	25/01/2024
5 Page of sampling	Many D. Chartry Stepan Physics
If Einformental condition using sampling & Transport	Clardy
F. Sampling Plant & Method used	INA

Report No.: MSKSL/ED/2023-24/00453/

Sample No.: MSKGL/ED/2023-24/01/00913

RESULT

50 MA	Paraneter	DOM	Micros	Limit	Result
1	Airmonia (NF(3)	стисто динта	15.5102 (Part 25)	400 24 HSE	212
7	Carbon Monovide (CO)	mg/ms)	(NDIR) (DI	2.649.	3.62
2	:Nilregen Diaxida (ND2)	Ewing arean	IS 5/82_Paris -3006 (Reaft2012) (O)	B0.24 H/2	79.5
4	D/mm (CS)	C=/mg utum	(5 5182 (Part 9)	180 1 HR	BEN (NR.:20.0
-6	Partosano Matter (<10um)	Coving action	(\$5162 Part 27:000 (Paul 2012) (D)	100 24 HR	102
E	Particulate Matter (<2.5um)	Enling gram	(S 5182 (PT-24), 2019 (O)	G0 24 HR.	54
1.	Sulptur Decode (800)	Colong proint	15 5/10 Par 2 3001 (Ruel/2012) (O)	80 24 1415.	6.5

- DND --

Report Verified By

Head Office:



For Milra 5. K. Private Limited

DOUBL MISSOGENING









Associate Portar

ULR: TC-695024000001842F

Name & Address of Gustomer:

Tata Steet (40./MCM)_Joda West

Address of Laboratory :

Wasi Bungai Tel.: +91 7044036120 Email udayanab@mtrask.com

Building No. Ft. 48, Littayan belyadrial Entate. 3, Pagladanga Roso, Kokeia 700015

larDo - Joes, Dist. - Keonmar, Octiona - 758034 India

TEST REPORT

Report No.:

Date: Sample No. 7

Date of receipt of sample:

Date(s) of performance: Location of performance of Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/F1215R

06/02/2024

MSKNB/ED/2023-2/JULI/MWICE

27/01/2024

27/01/2024 - D6/02/2024

Permantry Facility

3000166017/058, Date - 16/09/2023

Chamical

We hereby certify that the following suntale Drawn by we have been analyzed with the following

1. Стопр	Ahmongham Parlings
Z. Description of sample	
2. Unique idemification of sample(if eny)	Ambent Air
A. Date of sensyling	23/01/2024
5. Place of sempling	Niser H-Quarry Rest Sheller
6 Environmental continions during sempling & Transport	1) Temperature: 15-30 day C/2) Baremetric Pressure: 733 mm of the 3 Post for
- Sampling Plan & Method used	No. 5 Cold Chain Mantania. 18 5189(P-11 /12) 6 USERA
8. Identification of the personnel performing sampling by MSK	Akassh Kr Sarny, Lakin Nav.
9. Field Equipment Used	MSKBBUFELD/PDS/I

Report No.; MSKPUED/2023-24/F1215R

Sample No.: MSKNB/ED/2023-24/01/KW3CH9

RESULT

SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (Air)	rig/m3	USEPA ID 3.4, June	5 (Annual)	HOLOULT O
2	Benzene	micro gm/m3	15 5182 (Plant 11)	5.(Annual)	BOL/OLA.2/
3	Benzo(a)Pyrene	ngims	IS/5187 (Pact 12)	1 (Armual)	BDL/DL-0.5
4	Litad (se Ph)	micro gm/m3	USEPA-OSA, June	i (24 inquis)	BOL(OL:0.01)
-5	Mengagese as Mr	miore gra/m3	USEPA-IC Sa Jilina	Not Specified	
6	Nickel as fill	mg/m3	LISEPA-IO 14, June	20 (Annual)	0.74

Opinion |

Limit as pay COCB wellfordon, New Dear 19th Nivember 2005, for Austernati I Hally

Statement of Conformity

END

Halvariani 64

Sternium Marror

Ms. Hall Genzally

Desgration | Doesday Chemist

Kitherund Streetow

Spring

Designature

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Page Fort

Address of Branch :

P.O. Bartal Dt Keany or Oritica 758 035

Name & Address of Customer:

Title Shell Life (NGM) Jook West





TEST REPORT

Reference No. & Date :

Report No .:

Sample No.:

MSKGL/ED/2023-24/00453()

Date:

10/92/2024

AsPu - Juda Cen - Kernipar, Odesha - 758034 Ivina Pin

MSKGL/EDIZD23-JANHADOW

3000158017/050, Date - 11/06/21/93

We nearly could that the following semiole Drawn by us has been analyzed with it

1, Group	AR
2. Ossectionios of sample	Ambiert Air
Unique Identification of sumplaid any!	Joda Weis Hon & Min Mines
4. Date of samuling	
5. Place of sampling	33/01/3604
6 Environmental conditions during numbers & Transport	Natar M. Charles Strates
7. Sampling Plan & Memory upod	Douts
1. named Lines of constroid naced	NA.

Report No.: MSKGLEDVS023-2480HS36

Sample No.: MSKGL/ED/2023-24/01/0984

RESULT

58 MG	Horseweine.	HOM	Method	Limit	Rosult
1	Amenunia (NHS)	instan gunina	IB 5182 (Part 25)	100 24 HE	17.5
2	Carpon Monoxide (CO)	mg/ms2	(5.3162 : Part 10 : (990 (Realt (2014) (MOR) (C)	2 DHIE,	0.61
3	Mitigian Disside (NG2)	micro gm m2	ISS (62 : Pert 6 : 2006 (Read 2012) _(0)	R0.24.68	70.2
4	Dittirin (03)	mongayat	(S 5787 (Fed 8)	180 1 HR.	BOL/DI-10/
6	Panissiere Matter (<70cm)	more grown3	(5 5 162 Part 23 2008 (16 2012) (D)	100 24 HR	101
n-	Particulate Matter (<2.5um)	Kniving grain	18.5182 (P) 24),2019 (O)	60.24 HR.	
7	Sulcivus (Ilmode (502)	county exam	#35182 Part 2 2001 (Realt 2012) (O)	80 24 HR.	7.6

END -

Report Verified By

Nuni Office:



For Mitra S. K. Private Limited

Address of Laboratory :

building No. P.-46. Ucayan Industrial Easte, 2, Pagladanya Ruad, Kellusa 7000 th West Bangai

Tel : +91 7944036120 Email: udayanlııb@mirrek.com





MSKPLIED/2003-24/012150

27/01/2024 - 00/02/2024

Scan for Portal

ULR: TI:-695024000001844F

Oncido, MISKODENIMAT

Name & Address of Customer:

Tata Steel Ltd. (MGM), Joda West

ANPIA - Joda Dist - Knommer Costre - 750034 Indie

TEST REPORT

Report No. !

Date:

Sample No.:

06/02/2024 MGKNEI/ED/2023-24/01/V53/CCG

Date of receipt of sample: 27/01/2024

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

Parmirport Facility

3000156017/056, Date - 18/09/2023

Charmical

We hereby certify that the following remote Drawn by un has been analyzed with the following remote-

1. Głoug	Atmospheric Poligion
2. Description of sample	Ambient Air
Unique (duniffication of samplo(if any)	NA .
4: Date of sampling	23/01/2024
5. Piece of sampling	Neat Gangogoda Pil
6. Environmental conditions during sampling & Transport	1) Temperature 15-30 deg C(2) Barrametris: Pressure: 733 mm of Hg 3) Res: full No.5: Colo Chalo Namarred
7. Sampling Plan & Method used	IS-5182IP-11.12I & USEPA.
8. Identification of the personnal performing sampling by MSK	Akassh Kt Fathy Lalin Nest
9. Field Equipments Used	WSW88LFIELDROS4

Report No. : MSKPUED/2023-24/D12150

Sample No.: MSKNB/ED/2023-24/81/Y53CGQ

RESULT

Piremical					
Si No.	Perameter	UOM:	Method	Limit	Result
1	Arsenic as (As)	- Rayland	USEPAIO 3.4, June	@ (Annual)	DDL(DL:1-d)
2	Benzene	micro gm/m3	IE-5102 (Part 11)	5 (Annual)	BDIL(DL 4.2)
3	Benzo(a)Pyrane	Emigro	18:5182 (Part 12)	1 (Annual)	BDIU(DL.D.0)
4	Lingst (as Ph.)	mioto gra/m2	USEPA IO 3.4, June	1 (24 Hours)	5,04
5	Manganese as Mn	miero greynt3	USEPA10 3.4 June	Not Specified	0.26
6	Nickel as Hi	np/m3	USEPA4D EA, June	20 (Annual)	6.0

Opinion:

Limit up per CPCS netimostors, New Decry, 1910 recoversed 2008; for purioses in coverny

Statement of Conformity

1465

END

November 16

Storeign

Designation -Executive Charries Authorized Signatory

Mano

Desgrator

Last in charge

The party till migration by the facility is made.

This Test Report and lost be represented to be a street or a representation of the a S. Propositional

The (uppried part of extrament in command groupes (Next - perchapts surround) fract (wells) shall be retained for (5 days from the date of lance of the Text Report Parishalas wanted as melanest? Copy.

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President (1996 - 1997), 740, 2.3.C. apic Rand 6.4 34 . / No. 8. Wast Bengal 7.4. 39 (9) (6.6 9) 48001 (2285007 Feb. 9) 20 (200078 State Programmy der Weight www.michi.net

Page 1 of 1

Address of Branch :

P.O. Barbii IV Keonitar Onesa 758 835





Seas he Poron

Name & Address of Customer:

Table Street List (MGM)_Joda West

AsPin. - Joda, Diet. - Koonyer, Odistse - 738034 India My

TEST REPORT

Report No .:

Oate !

Sample No.:

Reference No. & Date ;

MSKGL/EDF2023-24/004562

100055000

MSKGLED/8103-24/01/00990

3000150017/050 Gate -15/09/0073

We havely energy that the following astronic Dawn by the base been analyses and the con-

1, Group 2. Decembrium of accepte	VIB
Unique Identification of exceptagit any)	Ambient Air
A Date of someting	Joda West from & Mir Mires
6. Plata al cambino	23/01/2034
Environmental combinant during sampling & Transport	Mater (Smorphigums, 19)
Sampling Fore & Metrolo (mod	Claucy
Activising 1 No. or well too make	NA.

Report No.: MSKGL/ED/2623-24/04/62

Sample No.: MSKGL/ED/2023-24/01/00994

RESULT

SI No.	Parametric	Uou	Mistrod		-
1	Arrenonia (NH3)	Total Control		Limit	Result
-		man grand	15 5182 (Part 25)	400 24 HR	14.3
2	Cartion Moreakde (Citi)	Impled)	00-5162 : Fran 10 (1929) (Renft 7054)		
4	Nittingan Diniede (NG2)	ACTION AND A	(NDR) (O)	2 848	0,67
	Oroce (OI)	more graves	(\$ 9182 Part E 2006 (Reaff 3017) (D)	80 DV HR.	21.1
71		more gented	15 5152 (Pan 9)	180 1 HR.	-
2	Particular Manter (man gm/m3 .	U-3782 Part 23:2005 (PAME 2012) (D)		BOL(DL=50.0
4	Pertousin Mater (<2.0cm)	micro grains	5-17-42 (3)	100 St HR	166
1.	The second secon		18 5182 (PT 34) 2019 (D)	GG 24 HIL	01
-	Sulphin Dicorde (SO2)	mates gentrack	(5) STEEP PART 2 2001 (Reset 2012 (O)	80 24 HR	7.7

-END-

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signetory

Communications (No Paper) Tall, A.J.C. Hom Ridd, Kollado - 750016, West Rampid Midn. Tall - \$1000,001405000 (Continued Final Unit of 20000000) Charge Philipperson (1900 West and American Com-

Page 1 of f

Address of Laboratory :

Building No. P. 48. Lillayen industrial Estate, 5 Payladenga Road Rokeia 700015 Wulf Bengai Tal +91 7044036120 Email udayantab@mitrask.com







sum for Portal

ULR: TC-695024000001/143F

DOC NO.: MERCHENHAUS

Name & Address of Customer

Tata Steel Ltd (MGM)_Joda Wesi

AUDio - Joda, Dial. - Keorjinar, Opinira - 758034 India

TEST REPORT

Report No.:

Date: Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

MSKRL/ED/2023-24/T12151

06/02/2024

MEKNB/FD//(E3-34/01/S93CB)

77/01/2024

27/01/2024 - 06/02/2024

Permurmi Pacity

3000158017/056, Cate 15/05/2025

Chemicst

We hereby contry that the following service Drawn by us has been analysed with the housing results.

I. Grana	Altiforgrante Pallulian
2. Description of sample	Ambient Alt
3. Unique transfrontion of sample(if any)	RA.
8. Date of sumpling	23/01/2024
Plane of sampling	Neat Railway Siding
Environmental conditions during sampling & Transpair	1) Temperature 15-30 dec C 2) Barometric Prossure 733 mm of No 3s Date to 1
5. Sampling Plan & Mellard word	No & Cold Chair Maintained (5-5182P-11, (2) & USEPA
I. Identification of the personnel performing sampling by MEK	Alamon Kr Sethy Latin Nex
9. Field Equipments Used	MSKGELIFIELDIFOS:3

Report No. : MS/FPL/ED/2023-24/T12151

Sample No.: MSKN5/ED/2023-24/01/593C90

RESULT

Parameter	UOM	Marnod	Limit	Result
Arsenic es (As)	rg/m3	LISEPAJO S.A. June	- B (Annosal)	
Genzane	miom gm/m∃			BDL/DL1.0)
Benzo(s)Pyrene	ng/m2			BDL(DL 4.2)
Lead (its Ph.)	Emlarg groling			HDL(DL 0.5)
Mangamese as Mo	micro gm/m3			0.02
Nitkel as Ni				0.0
	Arsenic es (As) Denzone Benzo(s)Pyrene Leed (ils Pb.) Menganese as Mn Nicket as Ni	Arsenic es (As) egimă Benzone mion gm/m3 Benzo(s)Pyrene ng/m3 Leed (is Pb.) micro gm/m3 Mengenese ss Mn micro gm/m3 Nickel as Ni ng/m3	Arsenic es (As) rg/m3 LISEPA-IO 1.4, June Benzone mion gm/m3 IS 1192 (Part 11) Benzo(s)Pyrene rg/m3 IS 5182 (Part 12) Leed (is Ph.) mion gm/m3 USEPA-IO 1.4, June Manganesic as Mn micro gm/m3 USEPA-IO 3.4, June Nicket as Ni ng/m3 USEPA-IO 3.4, June	Arsenic es (As) riginit (JEEPA-10 1.4, June 6 (Anneal) Genzane mion grows IS 1182 (Part 11) 9 (Anneal) Benzo(s)Pyrene ng/m2 IS 5182 (Part 12) 1 (Anneal) Lead (is Ph.) mion grows USEPA-10 2.4, June 1 (24 Hours) Marganions as Mn mioro grows USEPA-70 3.4, June Nut Specified

Limit as per CDCS collission, New Curn. 10th Preventor 2002, or ventured in stiguy

Statement of Conformity

END.

CONTRACT DV

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Designation

Exercise Disease)

Futhergod Signwork

Last tracerings

The post of specific years only in the specific process on his and the commenced Mike S.A. Process Cented
The Test Report Shall not be expected according to the commenced Mike S.A. Process Cented
The reserved part of complete) and the commenced floor complete floor was part of complete from the content of the Test Report. Personable complete or reserved 3 days.

The received part of merver(s) for chemical encrypts (see a case) was been derived by the law or per 1900 generalized by the received part of merver(see a merce) and the major of the law of the law

Hand Office

Street Cover Str Flore 1/40 A. C. November Kehma - TICOM West Dwgg, indu Tel. 31 30 401-2001 / 2000/07 Fax / 41 13 2250008 Cont - (Taggin micros) Western West Mittals (Offi

Page 1 of I

AMPIG. - Jode, Dist. - Keonfran, Odesha - 758034 Indus Pin-



(P.O. Bartal Di Approprie Ditesa 70% Obt.

Name & Address of Customer:

Tala Steel LYCMOMI, Stide West





Some life bliers.

TEST REPORT

Report No. :

MSKGL/ED/2023-24/004537

Date:

10,002/2021

Sample No.:

MBKGL/ED/2029-24/01/00005

Reference No. & Date :

3000/156017/050, Dalo + 15/09/2000

We havely contify that the following contain Drawn by us loss been emploided with the following results:

1. Group	AIR
2. Description of sample	Ambient Az
1, Unique Identification of sweeple(if arry)	Joda West Inse & Mry Misse
4. Over M sampling	23/01/2024
f. Phon of admpling	Mase Philane, Stefan
6. Environmental conditions during sampling 8. Transport	Cloudy
7. Sampling Plan & Method used	, NA

Report No. - MSKBL/ED0825-24/004537

Sample No.: MSKGL/ED/2023-24/01/00995

RESULT

SI No.	Personner	HOM	Magnesa	t-best	Present
1	Ammonia (NH3)	micro canónia	16.0162 (Pari 25)	ADD 24 39%	17.5
3	Carbon Menovisia (CICI)	mgm3	E 5162 Paul 10 / 1990 (Rend 2014) (NDR) (O)	2 8HR	0.58
3	atrigen Drawde (NO2)	micto grand	(5 t) (12 : Part () 2008 (Res/T2012) _(0)	40 24 HR.	24.5
4	Ctore (03)	Everpone:	15 5182 (Part.9)	180 F HPL	BCL(DL:29.0)
5	Forpizalate Matter (-10am)	mero groješi	18 5182 Pan 23/2016 (Paul 2017) (O)	100 24 HPL	175
8	Particulate Matter (<2,5um)	micro grows	IS 5192 (PT-24) 2019 (O)	60 24 HRL	97
7	Sulphur Dimede (SO2)	micro gminida	JS 5182 Part 1 2001 (Rea 2012) (O)	60 24 149	9.0

-END-

Report Verified By



For Mitta S. K. Private Limited

Address of Laboratory :

Building No. P. 48, (Alayan Industrial Estate 3. Pagladanga Road, Kolkata 700015 West Bangal

Tel.: +91 7044036120

Email udayarlub@mitrask.com







Scan for Portal

ULR: TC-695024000001635F

DICCAL MERCHENING

Tata Steel Ltd.(MGM)_Joda Wesi

Name & Address of Customer :

AMPo - Inda, Dat - Kennihar, Oillaha - 758034 Inda

TEST REPORT

Report No. :

Date:

Sample No. I

Date of receipt of sample:

Date(s) of performance: Lucation of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/F1147S

03/02/2024

MSKNB/ED/2023-QARHAN IRATE

05/01/2024

05/01/2024 - 02/02/2024

Permanent Facility

3000196017/056 Date - 18/09/2023

Chemical

We hereby contry that the following sample Drawn by us has been unalgood with the following results.

1. Graup	Atmosphore Prillippin	
2. Description of sample	Ambient Air	
Unique Identification of sumports any).	PAA AMA	
4. Date of sampling	02/01/2024	
5. Place of sampling	Bichakimili Basii Area Agenbari Center	
6. Environmental conditions during sampling & Transport	18:5182(F-11,12) & 1/5EPA	
7. Sampling Plan & Mathod used	18:51(2/P-11,12) & UBEPA	
Blantification of the personnel performing learning by MSE	Pranati Saani, Dhamburitar Cris, Lalin Nais.	
9. Field Equipments Used	MSK/BBL/FIELD/RDS-16	

Report No. : MSKPL/ED/2023-24/F1147G

Sample No.: MSKNB/ED/2023-24/01/N16A1E

RESULT

Chemical					
SI No:	Panameter	NOM	Method	Limit	Result
2	Areanic as (As)	ng/m3	USEPA-ID 3.4, June	5 (Annual)	BDL(DL:1.0)
2	Berizene	Emiring croins	S 5182 (Fad 11)	5 (Annual)	BBL(DL)4-2)
3 -	Elenza(a)Pyréne	og/m2	3 5182 (Part 12)	((Annual)	BOL(01:0.5)
4	Leavi (as Ptr)	Corkrey usaim	USEPA40 3:4, June	1.(24 (4ours)	BOL(0L:0.01)
5	Maggonese as Mn	micra gm/m3	LISEPA-IO 3.4: June	Not Specified	0,03
6	Nicsol as III	ng/m3	LISEPA40 3.4, June	20 (Annual)	60L(DL:8:0)

Opinion :

Limit as the CPCB notification. New Delm. 18th Nevember 2009, for Ambient air quality

Statement of Conformity

EMD.

Barrisonal Bu

Service

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Designation

Toesmical in charge

Authorized Signatory

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The Institute of the Color of the Total Report Periodole companies which be assured in Food Water) shall be returned by 10 days from the case of the Total Report Periodole companies which be assured by United States of the Total Report Periodole companies which be assured by United States of the Total Report Periodole companies which be assured by United States of the Total Report Periodole companies which is a surround to the Total Report Periodole companies of the Total Report Periodole companie

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In oan) Cere of the Place 740. A J.C. Blace Free Vision - 700010, vision Bergel, making the 1st annual part of Second Free 1st 33 (265000). Free 1st 30 (16500).

Fage 1 of 1

AirPo. - Jode Dist. - Keonfrar, Odisha - 758034 India Pin

Address of Branch

F.C. Barbil Dt Kecmbur Crimin 759 035

From Stand Link (MCM), Jame West





Sear by Purty.

TEST REPORT

Name & Address of Castomer: Report No. :

Date:

MBKGL/FD/7823-24004493

000000000

Sample No. :

MSKGL/ED/0023-2A/01/00951

Reference No. & Date :

300015/9017/056, Diag - 15/09/2023

We hereby sentify that the following sentals Drawn by us muchous analyzed with the following results.

1. Group	AIR
2. Description of sample	Ambient Air.
Unique Identification of semple(# atry)	Joda Wast fron & Mr., Mines
4. Uate of campling	02/04/2024
5. Bluck of sampling	Richinaged Burli Aina Assneuri Certiic
ii. Environmental continues diving anappling & Transport	Clear & Flurry
/. Sampling Plan & Method used	NA NA

Report No.: MSKGL/ED/2023/24/094833

Sample No. : MSKGL/ED/2023-24/01/00161

RESULT

Analysis Result of Ambient Air						
SI No.	Tanamakar	non	Mathies	Almit .	Result	
1	Ammoniii (MH3)	Intero grund	(dS hert) save of	400 24 HR.	24.5	
2	Carbon Munovide (CO)	engreia	(SS182 Part 10:1009 (Feat 2014) (ADR), (O)	2 BHR.	0.44	
4	Wittegan Dinxina (NDZ)	concern growing	(\$5162 : Part 5:3006 (Reaff2012) _(CI)	80 24 HFL	74.5	
4.	Uzsna (D3)	micro granti	(5 5182 (Part 9)	190 T HFL	HOLDL:10.0	
5	Particulate Motor (s10am)	Sinlang mesen	IS 5182: Part 23/2000 (Realf, 2012) (O)	100 24 HR	537	
8	Particulate Matter (<2.0um)	Cming crase:	(8.5182 (PT-24),2019 (D)	60 24 HR.	. 60.	
17.	Sulptus Dioxide (SG2)	Enforcement	S 5182 - Pari 2 (2001 (Rauff (2012) (0)	80 24 HFE	3.0	

-END-

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Securit Consumm Plant FIELA 2C Date Raid, Rollega - 700015, West Bergel India. 1st 23 (Urbanic) (20000007 Feb. 812) (2000000) Consummation of Wilder Consummation (Consummation)

Page 1 of

Address of Laboratory

Building No. P. 48, Udayan Inclustral Estate. 1 Popladanga Road, Kolkata 700015 West Bangal

Tel: +617044036120

Email: udayantao@mitrask.com





Scan for Portin

ULR: TC-0850210000016345

Name & Address of Customer:

Two Start Ltd (MCM)_Joda West

At/Pt. Jode, Dist. Recriptor, Odisha - 758094 India

TEST REPORT

Report No. :

Date:

Sample No. 1

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPUED/2023-24/91149W

03/02/2024

MSKNB/ED/2023-34/Q1/FCFAUH

00/01/2024

05/01/2024 02/02/2024

Permanent Facility

3000106017/05b, Date - 15 Uat 20/11

Chemical.

We pereby certify that the following sample Drewn by us has been smalyzed with the following models:

T. Group	At respherit Polution
2. Description of sumple	Ambient Air
3. Unique (dentification of sample(if any)	NA.
and the first of t	02/01/2024
4. Date of sampling 5. Place of sampling	1) Temperature 18-32 deg C 2) Businestic Pressure: 735 mm of Hg 3) Rain fall.
6. Environmental conditions during sampling & Transport	No & Cold Chair Metalured
7. Sampling Plan & Mathod itset	IB.0182(P-17,12) & USEPA
Identification of the personnel performing sampling by MSIC Field Environments Used	Prantib Sethi, Dhambucher Oss, Lalin Nisk MSK/BBL/FIELO/RDS-14

Report No.: MSKPL/ED/2023-24/81146W

Sample No.; MSKNB/ED/2023-24/01/FGFA0R

RESULT

Chemical					
Si No.	Parameter	MOU	Method	Limit	Result
at no.		Emige	USEPA-IO 3.4. June	B (Annual)	BOL(DL:1.0)
1	Argenio ex (As)	Enlung otokini	(S.5182 (Part 11)	5 (Annuali	BDL(DL4.7)
2	Berzone	my/m3	IS 5182 (Parl 12)	1 (Annual)	BDL(DLD.5)
2	Benzo(a)Pyrone	mipro grains	HSEPA-IO 2 A Joon	1 (24 Hours)	0.02
4	Dead (es. Pb)		USEPA4034 June	Not Specified	0.16
4	Mangenese en Vin	wiere gmins		20 (Annuall)	3DL(DL:5.9)
6	reicken as till	ng/m2	USEPA-IO 3.4, June	EXI (Assertant)	

Opinion:

LIRIN as per CPCS restriction, New Desig, 18th Newmber 1808, for Amburn at quality

Statement of Conformity NA

END -

Harranged By

Pâterno

Dr. Devotors Reverk

Chingswort

Technical in states

Automore Staronny

Square

Designation

The results refer only to the facety format.

The Test Report shall not be represented example in A.A., which is represented to the report of the report of

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TESTING # HERECTION

Eles No.: MERCESHINGT

no Ban Signification

Address of Branch:

P.U. Barbi Dt Knonibur Oriss: 758 085





Scan for Parmi

HSKSL/ED/2023-24/034427

Name & Address of Customer

Title Steer Link (Kill City)_ trate West

At Po. - Jedu, Dirt. - Kennihar, Orlishu - 758t/34 India Pin

TEST REPORT

Raport No.:

Date (10/02/2024

Sample No.: MSKGL/ED/2023-24/01/00100

Reference No. & Date : 3000156017/005, Date 15-08/2027

We hareby conthy that the tallowing sample Drawn forces have been anothered with the following records:

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique identification of sumplett eny)	Janua Pried Van & Mr. Mayes	
d Date of campling	GB/RH/3024	
5, Plate of sampling	In Frent of Administration office Bidlakundi	
Environmental conditions during compling & Transport	Cour & Sumy	
7. Swepting From & Method leseu	NA .	

Report No.: MSKGL/ED/2023-24/094622

Sample No.: MSKGUED/2023-24/01/00160

RESULT

analysis Result of Ambient Air						
01 He.	Permuelar	MOU	Methera	Limit	Result	
1	Ammuna (NES)	intero grainia	15 6162 (Part.25)	400 24 Het.	BUL(DL:10.0)	
Œ	Sirtne Manaside (CO)	Emigm	18 5182 (Pert 1): 1998 (Negff, 2014) (ND(R): (C)	2 UHR.	0.54	
-1	Mitrogen Diotette (MCIT)	micro grains)	IS-5182 : Park 6 :2000 (Reart,2012) (O)	80 24 HR.	15.5	
A	Dzwn (03)	there goes	(655382 (Part 9)	180 1 HPL	90L(0L-20/0	
5	Terriculação Meltar (<10um)	Colong crosm	18 5162 Fart 22:0005 (Realf, 2017) (0)	100 24 HR.	1 (60)	
8	Particulate Matter (<2.5um)	miero am/niš	15:5182 (PT-24),2019 (O)	00 24 HR.	73:	
7	Bugine Dioxide (\$00)	maio grateci	05 5102 : Pari 2 2001 (Remit 2012) (O)	80 24 MPL	EDL(DL ID,U)	

END-

Report Verified By

Head Office:



For Mitra S. K. Private Limited

Authorised Signatory

Second Control (Sept North Lieft A.J.C. Stein Plant Holland - 70001); Went Serger India Tell 19 Less anniers on a Language Plant 19 12 Language - 70001; Went Serger India Language Plant 19 Language - 70001; Went Language - 70001; Went Serger Indiana.

Address of Laboratory

Dullaing No. F. 48, Lidayan Industrial Estate. 3, Pochscarge Wood Wolkete 700015 Wast Bengal

101 -+91 7044035120

Emañ udevanlab@mitrask.com





Dochie MSKICEHHRAY

Scan for Portal

ULK. TC-0900240000016361

Name & Address of Customer |

Pata Simul Lld (MGM), Joda West

AtPo - Jode Did. - Keonhar, Dosha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(a) of performance: Location of performance of

Reference No. & Date :

Discipline:

MdK/*JED/2023-24/811478

03/02/2024

MSKNB/ED/2023-24/01/NBKCSU

08/01/2024

00/01/2074 - 02/02/2024

Permanent Facility

3000159017/U66, UB08-10/08/2023

Chemical

We pelably certify that the following section Drawn by us have been unalyzed with the Indownin results

1, Group	Atmospheric Polution
Description of excepts	Ambient Arc
3. Unique Identification of sampletil any)	NA.
Dots of pampling	03/01/2024
5. Place of sampling	Furth Huming Fung Coope 5) Tomperature 14-30 deg C 2) Berametinc Pressure: 734 mm of Hg 3) Rain fall
5. Environmental conditions during sampling & Transport	No. & Cold Chen Maintained 15.5182(P-11.12) & USECA
7. Sampling Plan & Method used 8. Identification of the personnel performing sampling by MSK	Protiii. Kr Manin Mukesin Halburu, Pranao Sath
9. Field Equipments Used	MSK/BBL/MCLD/RDS-13

Report No.: MSXPL/ED/2023-24/B11478 Sample No.: MISKNEYED/2023-24/01/NBKD03

RESULT

Shemical						
SI No.	Parameter	MON	Method	Limit	Result	
41000	Accents as (As)	no/m3	LIBEPA-IO 3.4, June	6 (Annual)	BDL(DL-1.0)	
	Denomia (15)	Enland contra	(S 5182 (Part 11)	5 (Armuel)	BDL(DL:A2)	
2		. Egriph	(5.5162 (Fail 17)	i (Armual)	HOL(CLUS)	
15	Benzo(a)Pyrene	rollers wer/m3	DISEPAJO 3.4 June	1 (24 Hours)	BOL(CL:0.01)	
4	Lesi (as Ptr)	imero gm/m3	USEPA-ID 3.4: June	Noi Specified	80,0	
3	Mangarese as Mrt Nickel as Ni	Endign.	USSPA 10.3 A, Ama	20 (Areual)	BDL(DL:50)	

Opinion:

LIMITER PER GEORGE TOURGETON, New Gelfs, 1881 November 2003 for Annual air canally

Statement of Conformity NA

END -

Hayayed By:

SIGNALINE

Dr. Davettern Sweet(4)

Designation:

Testimica in crosps

Authorized Signatory

Signature

Discount

Cab is streets

This Tour Passer place of the reproduced income in this serped the portriation or state of C. Private Linears for the state of the reproduced income in this serped is a control of the portriation of the

has the reserved part of accepting to the Secretary and the secretary of t



P.O. Barbi Di Keoniner Opses 750 ildb





Sous for Porton

TEST REPORT

Name & Address of Customer :

Take Steel L&LIMGMS_Local West

AbPo. - Jode, Dist. - Keomfer, Contra - 758034 India Pin

Report No.:

Date:

MSKGL/ED/2023-24/DOM34

1/1/02/2003/4

Sample No. : WSKGL/ED/2029-24/11/00257

Reference No. & Date: 9:00156017/056; Dwi-15/09/2575

We haveby cortily that the Jolewing sample Dissert by us has been analyzed with the following results:

1. Group	AIR
2. Description of sample	Aphieri Air
3. Unique identification of sample(6 any)	Joda West Inon & Mn, Mines
4. Umo of sampling	03/01/2004
5. Place of servicing	Kath Hutting Portri Hillian
Environmental odiretters dering sampling # Transport	Clear & Butters
7 Sampling Plan & Method used	NA .

Report No.: MSKG0ED/2003-21/094434

Sample No.: MSKGUED/2023-24/01/00257

RESULT

SINO	Pirameter	SHOW.	Metrou	Limit	Result
1	American (MHS)	micro gra/m2	(S.0182 (Prot 25)	400 24 HFS	50L(0L-10.0)
2	Carbon Managade (GD)	change.	IS 5182 Part 10 . (1999 (Next) 2014) (NDIR) (O)	2 860	0.35
78	Mittogen Elaxide (NO2)	macro amimo	15:5162 : Fast © 2006 (Reaft 2012) (0)	B0.94 HR.	15.5
4	Ozona (DS)	micro granict	(55162(Pat 0)	1801 FIL	BDL/DL:20.0
6	Patricular Matter (<10cm)	Emiring-creatry	(2.5182 Part 23-2306 (Yamift 2012) (D)	100 24 100	162
8	Firfitz tele Matter (<2.5em)	miam grains	IS 5162 (PT-24),2019 (O)	60.24 HR.	86
7	Huiphur Dicode (500)	micry united	15 5782 Part 2 2001 (Rant 2012) _ (1)	80 24 HK.	7.4

- END -

Report Ventied By

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Short Committee Flow, 166, A.J.C. Rose Road, Ecliosis - 700018. West herept limits for 1 of payables and stronger Flow for 20 10060000.

Land collegement and Mappin was indicate part.

Page 1 of 1

Address of Laboratory :

Building No. P. 46, Udayan Industrial Exists. D. Pagiacianga Road Knikara 700016 West Sangal

Name & Address of Customer:

AVFD - Judy, Dist. - Amoningr, Odens + 758834 Intuit

Tas āine Ltt.(MGM) Joda West

Tel. +91 7044036120 Email sidayanlab@mitrask.com







Docklo: WWW.GEW1807

Scan for Portal

ULR: TC-695024000001717F

TEST REPORT

Report No. :

Dute:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date !

Discipline:

MSKPL/ED/2028-24/B1204E

05/02/2024

MSKNB/ED/8023-24/01/122271

16/01/2024

16/01/2024 - 05/02/7024

Permanent Facility

3000156017/056, Date: 16/05/2023

Chemical

We hereby confly that the following sample Drawn by us hav been sufficiently the tolorwing roots:

1 Group	Athorphoric Politines
Z. Description of sample	Arabient Air
Unique Identification of sample(If any)	NA .
4. Date of sampling	13/01/2024
5 Place of sampling	CHEMICAL LAB, JODA JAMMM
S. Environmental consistens during sampling & Transport	F) Temperature, 10-26 dag G 2) Barometric Pressure, 735 mm of Hg 3) Rain to No & Cold Chain Maintained
7. Sampling Plea & Method used	18-5182(P-11-12) A-USEPA
8. Identification of the personnal performing sampling by MSK	AKASH KUMAR SETIVI, LALIN KUMAR NAIK
9. Fleid Equipments Used	MSK/MSL/MELD/RDS-14

Report No.: MSKPL/ED/2023-34/E1/204E

Sample No.: MSKNB/ED/2023-24/01/T2227T

RESULT

Chemical						
SI No.	Parameter	LIOM	Method	Limit	Result	
1	Anisarki: :== (Au)	ng/m3	USEPA-10 3.4, June	6 (Amuel)	DDL(DL:1.0)	
2	Benzene	micra gm/m3	IS 0182 (Part 11)	5 (Annual)	BDL(DL # 2)	
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part (3)	1 (Arinual)	BDL(DL.0.5)	
4	Land (sx Ptr)	miero gerima	UcepA io a 4 Juni -	T.(24 Hours)	0.02	
5	Мапралева ве Мя	miero gmimā	USEPA-IC 2 il June	Not Specified	0.31	
6	Wicheles Ni	ing/m5	LISEPA-IQ 14, June	20 (Annual)	8DL(DL/5.0)	

Opinius :

Unit as per GPGO nothication, New Denti, 19th Hoyember 2009, for Ambient air quarry

Statement of Conformacy

END

Hevewer By

Signature

Designation Executive Charetan

Athenned Signalay

Digities

bengester:

This Time Report ship not be improduced except to fell warran this perforance of Mary S.E. Prisons Limited.

This reserved part of perspectal for premised anywhile (Non - permission compress) Food, Washingtonal for 15 days from the fibes of cours of the Test Report. Perspectational anything and the extensed 2 major from this date of intern of the Field Hearth

The interned part of semiplical to the period analysis that we will be a semiple of the interned part of semiplical to the period of the perio

Head Office:

Sphere Centre (40 Floor), Fell. A.J.C. Beer, Road, Italiana (1700/10), Value Centre (40 Sh. 40 45 Shin / 20 5000 Floor (40 Shin / 20 5000 Shin ship) (40 Shin / 20 5000 Shin ship) (40 Shin ship) (40 Shin ship) (40 Shin ship) (40 Shin ship)

Page 1 of I.

Address of Branch:

P.O. Darbii Di Koonjing: Diling 788 835





Scan ity Porta-

TEST REPORT

Name & Address of Customer:

"wite Shoot Lid (MGM) Josep Words

ANFo. - Joda: Ohr. - Keonjinar, Odeha - 758034 India Piri

Report No. :

Date :

Sample No.:

Reference No. & Date :

MBKGL/ED/2023-24/00/478

10/02/2024

MSKGL/ED/2020-24/01/00500

3000156017, Dam - 20/03/2023

We harmly contry that the following sample Ermin by its has been innivited with the following result

1. Group	AR	
2. Description of earopte	Ambient Air (Butter Zone)	
Unique Identification of sample(II arry)	Joda West Ino & Mr. Minus	
4 Cate of sampling	12/01/2024	
5 Place of sampling	Other of Late Building, Jones JOHANN	
i. Dry our mental could those during a smalling & Transport	Clean, & Burney	
7. Sampling Film & Method used	INA	

Report No.: MSKOLJEDIJUZS-ZA/004478

Sample No.: MSKGL/ED/2023-24/01/00568

RESULT

ar No.	Parameter	MON	Method	Limit	Result
1	Ammores (MH3)	Emirry orann	IS 5182 (Part 25)	400 24 HR.	18.6
2	Carson Moroxide (CO)	mgress	(5 5142 PAR 10 1998 (Rent 2014) (HORY (C)	9 BHR.	6/17
3	Minger Dinide (NO2)	Emirro arakm	IS 5782 - Part 6 - 2005 (Real (2015) (D)	80:20:4fR.	25.5
	Danna (OS)	micro grum3	15:5182 (Part 9)	180 1 HR.	BOLIDE 2000
5	Participato Malby (<10um)	Eming grams	S 9182 Part 23:2006 (Result: 2012). (D)	100 24 HR.	770
6	Perticulate Matter (<2.5cm)	Emirry craim	(3 5152 (PT-24) 2019_(0)	80-24 HR	(Q)
T	Solution Diunian (502)	misso grimis:	S 5162 : Pmi 2 - 2001 (Reatt, 2012). (D)	80.24 HR	7.5.

- END -

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

Address of Laboratory:

Building No. P- 46, Udayan industrial Estate. 3. Payladange Road, Keliulia 700015 West Gergan Tel. +91 70440XB120 Email udayantab@mitresir.com







MSR/11/EU/2023-24/51203G

MBKNB/ED/2023-24/01/KH2285

Scan for Portal

ULR: TC-8950240000017187

Doc No. ASSIGNEMENTATO

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

AVPO. - Joda DNI. - Neorghar, Doisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance:

Location of performance of Reference No. & Date :

Discipline:

16/01/2024 - 05/02/2024 Permanent Facility

08/02/2024

18/01/2024

3000156017/058, Date - 16/09/2023

Chemical

No hereby couldy that the following sample Dress by us has been analysed with the following results.

1. Group	Almosolyseic Poliusion
2. Description of sample	Ambient Air
7. Unique Identification of sample(Flany)	NA
L/Date of sampling	13/01/2024
5. Place of sampling	JCDA WEST CAMP-JWIMW
6. Environmental conditions during sampling & Transport	 Temperature 10.26 ong € 2) Barometric Pressure 733 min of Fig.3) Rem fall. No. € Selb Chain Mainfained.
7 Sampling Plan & Method used	15.5/182(P-±1.17) & USEPA
f. Identification of the personnel performing sampling by MSK	AKASH KUMAR SETIYY, LALIN KUMAR NAIK
9, Field Equipments Used	MSK/BRUF(ELD/RDS 14

Report No.: MSKPL/ED/2023-24/512030

Sample No.: MSKNB/ED/2023-24/01/KH2285

RESULT

Chemical						
Si No:	Parameter	DOM	Method	Limit	Result	
4	Atsonic as (As)	ing/ind	LISEPAJO 1.4, June	& (Annual)	BDL(DL-17)	
2	Benzene	micro gm/m3	IS 1182 (Part 11)	5 (Annual)	BDL(DL-4,2)	
3	Bercro(s)Pyrene	mg/m3	IS 5182 (Part 12)	1 (Annual)	EDL(DL-0-fr)	
4	Luad (as Pt))	miero gm/må	LISEPA (O. 1.4, June	1 (24 Hours)	BOL(DL.0.01)	
5	Wanganete as Mn	micro gm/m2	USEPA C 2 4 dure	Nat Specified	0.54	
0	Nickei es Mi	naim3	USEPA-IO S.A. June	20 (Annual)	52	

Opinion.i.

Limit as per OPGS noticetton, How Quary, 18th Provence: 2805, for Ambient of quarty

Statement of Conformity

END.

(Sansawed By

Designation Executes Charatt

Authorized Signatory

Bigration

The testing reads only to the feat of leader that the months and the second of the leader of the lead of the lead

Smarth Centra (18t / Nov.), 148, 1.2.1. Smarthus, Colons - 700010, West Berger, retin Ten - 18t 35 484 ASIGO / 2360007 Fan - 41.15 (2000000)

final integration can William new artists from



P.O. Bartal Di Kaon(har Crinsa 766 035





Scan for Portal

TEST REPORT

Name & Address of Customer: Rep

Tala Steel LW/MSMI_Jody Wee

ALPs: - Joda, Dist. - Replifter, Odeha - 755034 Trein Fire

Report No.

Date:

Sample No.:

Reference No. & Dale :

WSKGL/CD/2023-21/II04482

10/09/2024

MSKGL/ED0023-24/01/00565

1000150017, Date - SM09/2025

We hereby comity that the trillgaing sample Drewn by us her twen analyzed with the following results:

f Group	AFL
2. Description of sample	Association
3. Lielque (dantification of samplant any)	Joda West Iron & Mr. Minos
A Date of sampling	12501 (202A
I. Place of sampling	Joseph Olizant Corres INVIANA
C. Environmental conditions toming sumning 6 fransport	Clem & Stowy
7. Samulan Plac & Mothod used	(ñA

Report No.: MSKGL/ED/2023-24/004482

Sample No.: MSKGL/ED/2023-24/01/00565

RESULT

Analysis Result of Ambient Air							
S1 No.	Parameter	uom	imulton	Limit	ftreut		
1	Ammonia (NH3)	mioro gri/mi)	S 5182 (Fan 25)	400 24 HR	10.2		
2	Carteri Monoxkii-(CO)	lm/gm:	(8 5182 Part 10 1999 (Real 2014) (NDR) (0)	2 6HR	0.39		
9	nitrogen Otoosda (ND2)	margalită	(5.5182: Pan 6.2006 (Ruaff 2012) _(C)	80 24 HR.	26.6		
4	Disene (DD)	Driving wave	(5 til 82 (Pbit 9)	160 1 HR	60L(DL::(0,0)		
h	Particulate Matter (<10am)	Contract ordinal	IB-5482 Part 21:2006 (West) (2012) (0)	400 24 HR	138		
6	Particulate Matter (<2.5um)	moragening	18.5182 (PT-34),2019 (O)	60 24 HR.	86		
7	Suplan Dioxide (502)	macro greens	(0.5 Rt2 (Part 2.2003 (Final(2012)_(G)	80 24 HR	7.1		

-EMD-

Report Verified By (18

Hand Office:

For Mitra S. K. Private Limited

Authorised Signatory

ence of Derboyce (Petr), This A. J.C. Name Food Copiess - (1990)to, Ward Script, Irold (et. of Derboyce), Derboyce (et. of Derboyce), Derboyce

Address of Branch:

P.O. Shirtsi Di Keoninar Ontsa 758 035

Name & Address of Customer:

Tinte Steel Lid (MSM)_Jose West





Som for Portal

TEST REPORT

Sample No.:

Report No. :

MSKGI/ED/2023-24/004254

Date:

10/01/2024

AbPo - Judin Dist. - Keonjher, Odisha - 758034 India Pin

MSKGL/EDIQ023-24/12/01406

3000156017/056, Date - 15/09/2023

We immby contry that the following sample Drawn by us had been analyzed with the following results.

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(If any)	BBL 4338 Near Time Office	
4. Date of sampling	21/12/2023	
5. Place of sampling	Negr Time Office	
6. Environmental conditions during sampling & Transport	Clear & Sunsy	
7. Sampling Plan & Method used	NA	

Reference No. & Date :

Report No.: MSKBL/ED/2023-24/04264

Sample No.: MSKGL/ED/2023-24/12/01405

RESULT

Analysis Result of Ambient Air							
SI No.	Parameter	HOM	Method	Limit	Result		
4	Animoner (NH3)	Enlarg grain.	IS 5182 (Part 25)	400 24 HR	16.1		
2	Carbon Monoxide (CO)	myma	(S 5182 : Part 10 :1000 (Reaft 2014) (NDIR) (O)	2 8HR	0.54		
3	Nitrogen Dioxide (NO2)	Eming moin	IS: 5182 (Part 6)_(O)	00 24 HR.	32.3		
4	Dzona (O3)	micro gm/m3	TPM/MSK/ENV(AP)/01/07_(O)	189 1 HFL	<20.0		
5	Particulate Matter (<10um)	mora gminis	(S: 5182 (Part 23)_(0)	100 24 HR	110.7		
6	Patriculate Matter (<2,5um)	miara gerima	IS 5102 (PT-24) 2019 (O)	60 24 HR.	50.6		
7	Sulphur Dioxide (302)	mara gmind	(\$ 5182 (Part 2):2001 Rfar:2005 (O)	80 24 HR.	8.5		

END -

Report Verified By M

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Skitch's Courte (9th Febor, 748, A.L.D. Scient Read Molecus - 1960*15. West Element India Tel. - 81-90. (Cristiania) 22:09(0007 Pay, 191-30 20:000006. Entall: Inthigo: 60:04-00:04 (Wolder: Wash emmol/coor)



P.O. Barbil Dt Keonthar Oresus 759 035





Scan for Perial.

Name & Address of Customer:

Teta Shell Ltd.(MGM) Joda West

Al/Po. - Jodn Dist - Keonhar, Odaha - 758034 India Pin

TEST REPORT

Reference No. & Date :

Report No. : Date :

MSKGL/ED/2023-24/064255

10/01/2024

Sample No.:

MSKGL/ED/2023-24/12/01407

3000158017/058, Data - 15/00/2023

Wie harntry corpfy (not the following sample Drawn by us him hower analyzed with the lakewing ensure

1. Group	AR	
2. Description of sample	Ambient Air	
3. Unique Identification of sample(if any)	BBL-4337 Near Time Office	
4. Date of sampling	22/12/2023	
5. Place of sampling	Near Time Office	
6. Environmental conditions during sampling & Transport	Citar & Sonny	
Y. Sampling Plan & Method used	NA:	

Report No.: MSKGL/ED/2023-24/004255

Sample No.: MSKGL/EDI2023-24/12/01407

RESULT

analysis Result of Ambient Air							
Si Mo.	Panemater	UOM	Method	Limit	Result		
1	Ammorria (NH3)	mioro gm/mi3	(S S182 (Part 25)	400° 24 HR.	19.6		
2	Carbon Monoxide (CO)	(mg/m3	IS 5182 : Part 10 :1999 (Realt 2014) (NDR) _(O)	2 8HR.	0.49		
3	Nittogan Dioxide (ND2)	micro gm/m3	t8: 5182 (Plut 6) (O)	50-24 HR.	29,1		
4	Dzone (D3)	micro gm/m3	TPMMSK/ENV(AP)/01/07_(O)	180 1 HR.	<20.0		
8	Parliculate Matter (<10pm)	micro gm/m3	(S: 5182 (Part 23)_(0)	100 24 HR.	156.2		
5	Particulate Matter (<2.5um)	micro gm/m3	IS 5182 (PT-24),2019 (O)	60 24 HR.	85.8		
7	Sulphur Dioxide (SO2)	maro gm/m3	IS 5182 (Part 2);2001.Rtm;2006_(0)	80'24 HR.	7.9		

-END -

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

New Art Cardre (SH Plane), 745, A.J.C. Boss Road, Admin - 765) vi, Siver Samuel and Fair, 31 SS Ath Amout - ZMRODEF For: 31 SS 29500003 Email: 080(grafteen com ShideAr I was independent

Address of Branch:

P.O. Biethi Di Kenninus Drissu 758 035





MSKGL/ED/2023-24/004256

TEST REPORT Name & Address of Customer:

Thin Steel Ltd.(MSM) Jode West

At/Po. - Juda, Dist - Keonher, Odisha - 758034 India Pin

Report No. :

Date: 10/01/2024

Sample No. : M8KGL/ED/2023-24/12/01409

Reference No. & Date : 3000156017/056, Data - 15/09/2023

We hareby cently that the fallowing sample Drawn by us has been analyzed with the following re-

1. Group	AIR	
2. Description of sample	Ambreol Air	
Unique Identification of sample(if any)	BBL-4336 in front of Administrative Office	
4. Date of campling	26/12/2023	
5. Place of sampling	In front of Administrative Office	_
8. Environmental conditions during sampling & Transport	Clear & Sunny	
7: Sampling Plan & Method used	NA.	

Report No. : MSKGL/ED/2023-24/004256

Sample No.; MSKGL/ED/2023-24/12/01469

RESULT

instysis Result of Ambient Air					
SI No.	Parameter	LICH	Method	I-lmit.	Result
1	Anymonia (Mrs)	mere grains	IS 5182 (Parl 25)	400 24 FIR.	16.9
2	Carbon Monovide (CO)	mg/m3	18 5182 : Part 10 :1999 (Pointf:2014) (NDIR) (O)	2 BHR.	0.29
3	Nitrogen Dioxida (NO2)	micro gm/m3	IS: 5182 (Part 8)_(O)	80 24 HR.	16.0
4	Ozone (O3)	Enfing proint	TPMMSKJENV(AP)/01/07 (O)	JRH 1 081	<20.0
5	Particulate Molfor (<10um)	micro gm/m3	(S: 5182 (Part 23), (O)	100 24 HR.	128.0
6	Particulate Matter (<2.5um)	micro grama.	(\$ 5182 (PT-24),2019 (O)	60:24 HFL	57.0
- 4	Sulphur Dicoide (SO2)	micro-gm/m3	(S 5182 (Part 2):2001 Rthr: 2006 (C)	80.24 HR.	<6.0

END -

Report Verified By

Head Office

For Mitra S. K. Private Limited

Authorised Signatory

Shinds Control (5th Floor), 758, A J.C. Boss Rose, Bollotto -700016, Wint Rengal ships Tel., Int 33 40140000 (22000007 Flax 19: 33 22000000 Final : info@mittask.com/Website: week.mittask.com

Address of Branch:

P.O. Bartel Dr. Keonjher Onsea 758 035-





Sem for Portal

Name & Address of Customer:

Tota Steel Ltd.(MGM) Jode West

AtiPo. - Joda, Dist. - Keonfton, Odisha - 758034 India Pin

TEST REPORT

Report No. :

MBKGL/ED/2023-24/004257

Date: 10/01/2024

Sample No.: M8KGL/ED/2023-24/12/01411

Reference No. & Date : 3000156017/056, Date - 15/09/2023

We hereby cartify that the following aample Dissen by us had been analyzed with the following results:

1. Group	AIR	
2. Description of sample	Ambient Air	_
3. Unique Identification of sample(if any)	BBL-4341 Jaroul High School Auto	
4. Date of sampling	27/12/9023	
5. Place of sampling	Jarouli High School Jundi	
5. Environmental conditions during sampling & Transport	Clear & Sunmy	-
7. Sampling Plan & Method used	NA .	

Report No.: MSKGL/ED/2023-24/004257

Sample No.: MSKGL/ED/2023-24/12/01411

RESULT

utulysis Result of Ambient Air					
SI No.	Parameter:	UOM	Method	Limit	Result
1	Americana (Na-Ca)	micro grains	18 5182 (Part 25)	400 24 HR.	31.6
2	Carbon Monowide (CO)	mg/m3	15 5182 : Part 10 :1999 (Reart 2014) (NDIR) (O)	2 BHR	23.34
3	Natrogen Dioxide (NO2)	Emire grows	IS: 5182 (Part 6)_(O)	80 24 FIR.	22.5
4	Ozone (00)	mioro gmotta	TPM/MSXDENV(AP)/01/07_(0)	180 1 HR:	<20.0
5	Particulate Matter (<10um)	micro gm/m3	(S: 5182 (Part 23) (O)	100 24 HR.	142.0
8	Particulate Matter (<2.5um)	micra gm/m3	IS 5182 (PT-24),2019 (O)	60 24 HR.	57.0
7	Sciptur Dicorde (SC2)	mich grint?	@ 5182 (Part 2):2001 (Whet 2006 (C))	00 24 HR	<8.0

END -

Report Verified By #1

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Shoots Control (the Fixer), 748; A.J.C. Son-Fixer, College, Wester, and Bernel, India. Tel. -91-73-491-00000 (20050007 Fax: 41-b) 201601101.

Email: Integral and control Wester, Washington

Address of Branch:

P.O. Barbi Dt Keeniner Onsse 758 035

Name & Address of Customer:

AliPo - Jinta Dies - Knorghar, Octobra - 758034 India Pin

Tata Steel Ltd. (MGM)_inda West.





Score for Percent

TEST REPORT

Report No. :

MSKGL/ED/2023-24/004258

Date :

10/01/2024

Sample No.:

MSKGL/ED/2023-24/12/01410

Reference No. & Date :

3000156017/056. Date - 15/09/2023

We hampy contry that the following sample Drawn by us has been analyzed with the following results.

1. Group	AIR	
2. Description of sample	Ambient Air	
3. Unique identification of sample(If any)	BBL-4340 Japang High School, Jajang	
4. Date of sampling	27/12/2023	
5. Place of sampling	Jaking High School, Jalang	
6. Environmental conditions during sampling & Transport	Clear & Sunny	
7. Sampling Plan & Method used	NA.	

Report No.: MSKGL/ED/2823-24/004258

Sample No. : MSKGIJE0/2023-20/12/01410

RESULT

malysis Result of Ambient Air					
SI No.	Parameter	DOW	Method	Limit	Result
4	Ammonia (NH3)	more gram3	(B 5182 (Part 25)	400 24 HR.	13.6
2-	Carbon Monosida (CO)	mgims	IS 5182 Pert t0 :1999 (Realf 2014) (NDIR) (O)	2.8HR	0.34
3	Ntrogen Dicade (NC2)	micro gm/m3	(S: 5182 (Part 6) (O)	90 24 HR.	20.7
4	Ozone (O3)	micro grains	TPMMSK/ENV(AP)01/07 (0)	160 1 HR.	<29,0
5	Particulate Matter (<10um)	micro gm/m3	19: 5162 (Part 23)_(O)	100 24 HFL	111.0
-0	Particulate Matter (<2.5cm)	micro gnifm3	(8.5182 (PT-24),2019 (O)	60.24 HFL	84.0
7	Sulphur Digoide (SO2)	micro grain3	IS 5182 (Part 2):2001 Rthn:2006 (D)	-80.24 HR.	<6.8

-END-

Report Verified By Wu

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Straint Ceste (St. Roon, 749, A.J.C. Box Root, Killeda - Oddris, West Bergel, Indo. Tel.: 91.33-401-(200) / 2000000 Fox: 101-101-25-(200) Emilt: Intelligentumb care Waldes - sove riscos con



P.O. Bartill Ot Knorther Orissa 758 035





Scan for Portal

TEST REPORT

Name & Address of Customer:

Trito Street Ltd.(N/GM)_Joda Wast Date:

AMPo. - Ander Diet. - Keonghar, Odishie - 758034. India Pin

Report No.: AISKGL/ED/0023-3N/004259

10/01/2024

Sample No.: MSKGUED/2023-24/12/01408

Reference No. & Date ; 1000150017/056, Date - 15/05/2023

We hareby cartify that the following sample Drawn by its half been analyzed with the following results

1. Group	AIR
2. Description of example	Ambiorit Air
3. Unique identification of sample(if any)	BBL-4338 Sichakundi Besti Area Angenbari Centre
4. Date of sampling	25/12/2023
5, Place of sampling	Bichalundi Balifi Anse Angenberi Centre
6. Environmental conditions during sampling & Transport	Clear & Sunny
7. Sampling Plan & Method used	NA .

Report No. : MSKGL/ED/2023-24/004259

Sample No.: MSKGL/ED/2023-24/12/01468

RESULT

nalysis Result of Ambient Air					
Parameter	MOM	Melhod	Limit	Result	
Ammorve (NH3)	mecro gm/im3	\$ 5182 (Part 25)	400 24 HR	15.4	
Carbon Monorese (OO)	mgAnd	15 5162 : Part 10 :1999 (Realf, 2014) (NDIR), (O)	2 8HR	0.43	
Nitrogen Dissola (NG2)	micro gm/m3	IS: 5182 (Part 6)_(0)	80 24 HR.	.19.6	
Oznak (O3)	micro gm/m3	TPMWSk/ENV(AP)/01/07_(O)	180 T HR.	<20.0	
Particulate Matter (<10um)	micro am/m3	(S: 5182 (Part 23), (O)	100 24 HR.	47.3	
Particulate Matter (<2 Sum)	micro gm/m3	IS 5182 (PT-24),2019 (O)	60 24 HR	16.2	
Sulphur Dioxide (SO2)	micro gm/m3	IS 5182 (Part 2),2001 Rffm:2006 (O)	80-24 HR	<6.0	
	Parameter Ammoree (NH3) Carbon Monoscie (OO) Nitrogen Disside (NO2) Ozone (O3) Particulate Matter (<1(Um) Particulate Matter (<2 Sum)	Parameter (NH3) micro gm/m3 Cartico Monoscoe (CO) mg/m3 Nitrogon Disoda (NC2) micro gm/m3 Ozone (O3) micro gm/m3 Particulate Matter (<10um) micro gm/m3 Particulate Matter (<2 sum) micro gm/m3	Parameter UOM Method	Parameter UOM Mathed Limit	

-END-

Report Verified By (MA)

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Shapir (John Edit Floor), 745, A.J.C. Son Rood, Kobata - 7900 K. Wen Sengal, Indotre: 34 SJ 48120001 (2000000 Floor, 91 33 2000000 Floor: Higgs Basic Lore Websit: West Higgs Book

Address of Branch:

P.O. Bartie Dt Koon,har Onsse 758 035





Scan for Portal

Name & Address of Customer:

Tota Steel Ltd.(MGM) Jode West

Al/Po. - Joda, Dist. - Kaorelini, Odisha - 758034 India Pin

TEST REPORT

Report No. :

Sample No.:

Date: 10/0

Reference No. & Date :

MSKGL/ED/2023-24/00/260

10/01/2024

MSKGL/ED/2023-24/01/00034

3000156017/056, Data - 15/09/2020

Will harrory centry that the following sample Drawn by us has been surelysed with the following results:

1. Group	AIR	
2. Description of sample	29/30.12.2023	
3. Unique identification of sample[if.any)	88L-4357 Nivar Time Office	_
4. Date of sampling	29/12/2023	
5. Place of sampling	Near Time Office	
6. Environmental conditions during sampling & Transport	Clear & Supry	_
7. Sampling Plan & Method used	NA .	

Report No.: MSKGL/ED/2023-24/004280

Sample No.; MSKGL/ED/2823-24/01/00034

RESULT

unalysis Result of Ambient Air					
SI No.	Parameter	UOM	Method	Limit	Result
1	Ammonia (NH3)	micro grows	IS 6182 (Part 25)	400 24 HR.	10.1
2	Cerbon Monoride (GO)	mg/m3	IS 5162 ; Part 10 :1999 (Reelf 2014) (NDIR) (O)	2 8HR.	0.39
2	Nittingeri Dimolou (NG2)	micro gm/m3	IS 5182 Part E 2006 (Reof. 2012) [D]	30 24 HR	25.5
4	Ozone (O3)	En/mg oram	TPM/MSK/ENV(AP)/01/07 (O)	180 I HR.	<20.0
5	Perticulate Matter (<10um)	micro gm/m3.	IS 5182: Part 23:2006 (Real? 2012) (O)	100 24 HR.	125
6.	Particulas Matter (<2.5cm)	mioro grivin3	JS 5182 (PT-24),2019 (O)	60 24 HR	59.0
7	Sulptior Dioxide (SO2)	micro groves	IS 5182 : Part 2:2001 (Reed; 2012) (D)	80 24 HR.	6.0

END-

Report Verified By

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Street Cores (Se Flor) 785 A.J.C. See Seet Color-7550-5. From Gauget In-Tel: 1913 4644000 (2010)007 Fee 61 to 22000000 Entil 1-http://expec.com/Withda.com/min/com/

Address of Branch:

P.O. Bartil Dt Knorthal Crisse 758 035.





TEST REPORT

Reference No. & Date :

Name & Address of Customer:

Report No. : Tells Steel (30,(MGM), Jolla West Date:

ASPn. - Joda, Dist - Keoniller, Odisha - 758034 India Phil

MSKGL/ED/2023-24/004261

10/01/2024

MSKGL/ED/2023-24/81/00/135

3000158017/058. Date - 15/09/2023

We hereby cartify that the following sample Drewn by us has been analyzed with the following results:

1. Group	AR	
2. Description of sample	29/30/12/2023	
3. Unique Identification of sample(if any)	88L-KSSB Guruda Village	
4. Date of sampling	29/12/2023	
5. Place of sumpling	Gunda Village	
8, Environmental conditions during sampling & Transport	Clear & Surray	
7. Sampling Plan & Method used	NA:	

Sample No. 1

Report No.: MSKGL/ED/2023-24/004261

Sample No.: MSKGL/ED/2023-24/01/00035

RESULT

Si No.	Parameter	HOM	Method	Llimit	Rewalt
1	Animonia (NI-i3)	micro gan/mil	IS 5182 (Part 25)	400 24 HR	11:8
1	Carbon Monavida (CO)	mg/m3	IS 5182 - Part 10 :1999 (Reaff 2014) (NDIR) (O)	2 SHR.	0.64
3	Nitrogen Enouge (NO2)	micro gro/m3	IS 5182 : Part 6: 2006 (Rouff 2012) _(0)	80 24 HR	21.0
4	Огони (ОЗ)	micro gm/m3	TPM/MSK/ENV(AP)/01/07_(O)	180 1 HR	<20
h h	Particulate Matter (<10um)	Emiling pacters	S 5162 Part 23.2006 (Reaff, 2012), (O)	100 28 HR	87,0
fi	Particulate Matter (<2.5um)	micro gm/mtl	IS 5182 (PT-24),2019_(O)	BO 24 HR.	42.0
1	Sulphur Dioxide (BO2)	micze gm/m3	iS 5182 : Part 2 :2801 (Reaft,2012) (O)	80 24 HR	7.6

END

Report Verified By (W)

For Mitra S. K. Private Limited

Authorised Signatory

Hend Office:

Shareh Crists (5th Room), T4E, R. J.C. Rose Road, Rollings - 100016. What Bengal, India Tol., NY 33-47145600 (2255000) Fax: 31.29 (2065)009 Crists: 1496(849) in Room: 1494 (2015) Crist.

Address of Branch:

P.O. Harbi Dt Kednijtse Onsse 709 035





Scan für Portui

Name & Address of Customer:

Tata Steel Ltd.(MCM) Jode West

AnPo. - Joda Dist. - Keonjhar, Odlahu - 758034. India Pin

TEST REPORT

Reference No. & Date :

Report No. :

Sample No. :

Date:

MSKGL/ED/2023-24/004263

10/01/2024

414040

MSKGL/E0/2023-24/01/00037

3000166017/056, Date - 15/06/2023

We hereby cartify that the leviewing sample Drawn by us has been analyzed with the following results:

1. Group	AR	
2. Description of sample	30/31,12 2023	
3. Unique Identification of sample(if any)	BBL-4300 Near Time Office	
4. Date of sampling	30/12/2023	
5. Place of sampling	Neor Time Office	
6. Environmental conditions during sampling & Transport	Clear & Sumny	
7. Sampling Plan & Method used	NA .	_

Report No.: MSKGL/ED/2023-24/004265

Sample No.: MSKGL/ED/2023-24/01/00037

RESULT

nalysis Result of Ambient Air						
SI No.	Paramoter	UOM	Method	Linut	Result	
1	Ammorie (NH3)	micro gm/m3.	IS 6162 (Part 25)	400 24 HR.	12.9	
2	Carbon Monovide (CO)	mg/m3	IS 5182 : Part 10 :1009 (Result 2014) (NDR) (O)	2 8HR	0.34	
3	Nitrogen Dioxide (NO2)	micro-gm/m3	IS 5182 : Part 6: 2006 (Resett 2012) (D)	80 20 HR.	285	
4	Ozone (O3)	micro gen/m3	TFM/MSK/ENV(AP)(01/G7_(G)	180 1 HR.	<20.0	
5	Particulate Matter (<10um)	micro gm/m3	IS \$182: Pint 23:2006 (Realf, 2012) (O)	100 24 HR.	52.0	
6	Particulate Matter (<2.fium)	micro gm/m3*	IS 5182 (PT-24),2019 (O)	60 24 HR.	25.0	
7	Sulphur Disside (SO2)	more grands	IS 5182 - Pint 2 :2001 (Realf. 2012) _(O)	80 24 HR:	8.6	

-ENG -

Report Verified By (W)

Hand Office:

For Mitra S. K. Private Limited

Authorised Signatory

Stands Furder Cth Floor, 780, A.J.C. Rose Rose, Kohess, 700016, Warnthaged Julia Tel. 10:37 419-5006 (2002000) Fair 41:33 (2000000) Solge: pringle-free core Website: www.places.com

AMPo, - Juda, Dist. - Keonmir, Odisha - 758034 India Pin



P.O. Bartill Dr Kebniter Onssa 758 035





TEST REPORT

Name & Address of Customer: Report No.:

Date:

Tala Steel Ltd.(MOM) Jode West

10/01/2024

Sample No.:

MSKGL/ED/2023-24/01/00035

MSKGL/ED/2023-24/004264

Reference No. & Date :

3000156017/056, Date - 15/09/2023

We havely certify that the inflowing sample Drawn by us has been analyzed with the following results:

1. Group	AIR
2. Description of sumpte	28/30 12:2023
3. Unique Identification of semple(if any)	BBL-4359 Palsa Kha Villago
4. Date of sampling	29/12/2023
5. Place of sampling	Palsa Kha Village
6. Environmental conditions during sampling & Transport	Clear & Signry
7. Sampling Plan & Method used	NA.

Report No. 1 MSKGLIED/2023-24/004264

Sample No. : MSKGL/ED/2023-24/81/00036

RESULT

nalysis Result of Ambient Air					
\$3 No.	Panamatar	DOM	Method	Limit	Result
1	Armicesa (NH3)	тнето деп/тех	IS 5182 (Part 25)	400 24 HR.	<10.0
2	Carbon Monorkis (DO)	Emigm	IS 5182 : Part 10 : 1999 (Realf, 2814). (NDR), (O)	2 8HR.	0,30
3	NBrogen Diaxide (NG2)	micro gm/m3	IS 5182 : Part 6 2006 (Reaft 2012) _(O)	80 24 HR.	17,3
4	Ozone (O3)	micro gm/m3	TPMMSK/ENV(APyOLIUT_(O)	180 1 HR.	<20.0
	Particulate Martier (<10um)	Emimp oraim.	8 5162 Part 23:2006 (Reaff, 2012) (O)	100 24 HR.	57.0
6	Porticulate Matter (<2.5um)	micro gm/m2	IS 5182 (PT-24),2018 (C)	60 Z4 HR.	28.0
7	Sulphur Dioxide (SD2)	Emirro conimit	IS 5182 : Part 2 :2001 (Realf 2012) (O)	80 24 HFL	6,4

END-

Report Verified By /w

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Shock/Corto (Sti Floor) 745, A.J.C. Som Roof, Ad-Au-790010. West farmed better The 191 33-464-0900 / Sycology Floor 91 33 52550000. That - Programmic cont Prices - www.efford.com

Page 1 of f

Address of Branch:

F.O. Bartin Dr Keonmar Ossses 758 035





State for Portal

Name & Address of Customer:

Tata Steel Ltd (MGM)_Jacs West

AUPo. - Joda Dist. - Kewijher, Odeska - 759034 India Pin

TEST REPORT

Report No. :

Date:

MSKGL/ED/2023-24/004265

10/01/2024

Sample No.:

MSKGL/ED/2023-24/01/00038

Reference No. & Date :

3000158017/058, Date - 15/09/2023

We revely certify that the following sample Drawn by as mis been analyzed with the following results:

7. Sampling Plan & Method used	NA NA	
6. Environmental conditions during sampling 5. Transport	Clear & Surmy	
5. Place of sampling	Barnebari SSVM School	
4. Date of sampling	30/12/2025	
3. Unique Identification of sample(if arry)	6BL-4361 Barneteri SSVM School	
2. Description of sample	30/31,12:2021	
1. Group	AIR	

Report No.: MSKGL/ED/2021-24/084265

Sample No.: MSKGL/ED/2023-24/01/00038

RESULT

St No.	Paginieter	UOM	Method	Limit	Renett
1	Amenna (NH3)	micro gm/m3	IS 51(2 (Part 25)	400 24 HPL	nri
2	Comon Monovide (CO)	mg/m3	IS 5162 Part 10 :1999 (Result 2014) (NDR) (D)	2 8HR.	0.26
3	Nitrogran Dicerida (NO2)	Erway main	IS 5182 : Part 6 :2006 (Rauff, 2012) _(0)	88 24 HR	26.2
4	Gzone (Cl3)	micro gm/m3	TPM/HSK/ENV(AP)/01/07_(0)	180 1 HR.	<20.0
5	Particulate Matter (<10um)	tricati gm/m3	IS 5182 Part 23:2006 (Reaff, 2012) (D)	100 24 HR	77,0
H I	Particulate Matter (<2,5um)	mioro gmim3	IS 5182 (PT-24),2818 (D)	80 24 HR.	744.0
7	Sulphur Dioxide (SO2)	imican gruim3	IS 5162 : Part 2:2001 (Realt 2012) (O)	80 24 HR	8.8

-END -

Report Verified By (A)

Head Office:

For Mitra S. K. Private Limited

Authorised Signatory

Shaper Center (Sh Place), 740. A.J.C. Boer Road, Kallania, 1906/18. Washington Linda Tel. (41-33-4014-500) 1285-5000 Place 31-53-5406-68. Enter: 1816-5740-64.com Watson: Impro misclife com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel.: +91 7044036120 Email: udayanlab@mitrask.com







Scan for Portal

ULR: TC-695024000000720F

DOC NO MSKIGEN/19/07

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

02/01/2024 - 16/01/2024

MSKPL/ED/2023-24/010E8W

MSKNB/ED/2023-24/01/SZE16Y

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

16/01/2024

02/01/2024

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(if any)	NA .		
4. Date of sampling	30/12/2023		
5. Place of sampling	BBL-4343 Bamebari SSVM Village		
6. Environmental conditions during sampling & Transport	Temperature: 18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fi No & Cold Chain Maintained		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das		
9. Field Equipments Used	MSK/BBL/FIELD/RDS-14		

Report No.: MSKPL/ED/2023-24/010E8W Sample No.: MSKNB/ED/2023-24/01/SZE16Y

RESULT

Chemical						
SI No.	Parameter	NOM	Method	Limit	Result	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL:1.0)	
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4.2)	
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)	
4	Lead (as Pb.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL:0.01)	
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.14	
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)	

Opinion:

Limit as per CPCB notification. New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

- END

Reviewed By

Signature

Désignation

Executive Chemist

Authorized Signatory

Namo

Designation:

Executive Chemist

This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.

The reserved part of sample(s) for chemical analysis (Non-perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Text Report. Pershable sample(s) shall be retained 2 days from the date of issue of the Text Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Waste) shall be related for 15 days as per EPCB guideline & (Avr.) I proper the date of issue of the Test Report.
The reserved part of sample(s) for Microbiological analysis (Non - perintuible sample(s) Food. Shalled Water. Sealed food) shall be related for 15 days from the date of issue of the Test Report.

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120 Email udayanlab@mitrask.com





DOC NO MSKIGEN/19/07

Scan for Portal

ULR: TC-695024000000719F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

Al/Po. - Joda, Dist. - Keonjhar, Odisha - 758034. India

TEST REPORT

Report No.:

MSKPL/ED/2023-24/D10EBQ Date: 16/01/2024

Sample No.:

Discipline:

MSKNB/ED/2023-24/01/NW81CG

Date of receipt of sample: 02/01/2024

Date(s) of performance: Location of performance of 02/01/2024 - 16/01/2024 Permanent Facility

Reference No. & Date:

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique Identification of sample(if any)	NA NA		
4. Date of sampling	30/12/2023		
5. Place of sampling	BBL-4345 Time Office		
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fi No & Cold Chain Maintained		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das		
9. Field Equipments Used	MSK/BBL/FIELD/RDS-2		

Report No.: MSKPL/ED/2023-24/D10E8Q

Sample No.: MSKNB/ED/2023-24/01/NW81CG

RESULT

Chemical Che						
SI No.	Parameter	NOM	Method	Limit	Result	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL:1.0)	
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL:4 2)	
3	Benzo(a)Pyrene	rig/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)	
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL:0.01)	
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.32	
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)	

Opinion:

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

END.

Revenued By

Signature

Namo

Designation Executive Chemias Authorized Signistor

Designation

Executive Chemist

The results relate only to the item(s) tested.

This Test Report shall not be regulated except in full, without the permission of Mitre S.K. Private Limited.

The reserved part of sample(s) for themical analysis (Non - perishable sample(s) in full be retained 2-days from the date of issue of the Test Report. Perishable sample(s) effect be retained 2-days.

from the date of the case of t

Head Office:

Shrechi Centre (5th Floor), 748, A.J.C. Bose Road, Kokuta - T00018, West Bengal, India. Tel. 91.33 40143000 / 2255007 Fax: 91.33 22550008 Email: w/oggmthask.com Website www.mitrase.com

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000000718F

Doc No MSKIGEN/19/07

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No.:

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

MSKPL/ED/2023-24/P10E8E

16/01/2024

MSKNB/ED/2023-24/01/HWK18V

01/01/2024

01/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution		
2. Description of sample	Ambient Air		
3. Unique identification of sample(if any)	NA .		
4. Date of sampling	29/12/2023		
5. Place of sampling	BBL-4344 Palsa Kha Village		
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fa No & Cold Chain Maintained		
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA		
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das		
9. Field Equipments Used	MSK/BBL/FIELD/RDS-14		

Report No.: MSKPL/ED/2023-24/P10E8E Sample No.: MSKNB/ED/2023-24/01/HWK18V

RESULT

Chemical						
SI No.	Parameter	UOM	Method	Limit	Result	
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL.T.O)	
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BDL(DL.4.2)	
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL 0.5)	
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02	
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.10	
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)	

Opinion:

Limit as per CPC8 notification, New Delhi. 18th November 2009, for Ambient air quality

Statement of Conformity NA

END -

Reviewed By

Name

Designation

Executive Chemist

Authorized Signatory

Executive Charges

The results relate only to the item(s) lested.

This Test Report shall not be reproduced except in full, without the permission of Mitre 5 K. Private Limited.

The reserved part of cample(s) for chemical analysis (Non - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Waste) shell be retained for 15 days as per CPCB guideline & (Air) 1 month from the date of leave of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - perishable sample(s) Food, Sealed Waster, Sealed food) shall be retained for 15 days from the date of issue of line Test Report.

Head Office:

Shrach Centre (Str. Floor), 748, A J.C. Bose Road, Kolkata - 700016, West Bengel, India Tel. 91 33 40143000 / 22650007 Fax. 91 33 22650008 Email info@mitrask.com Website: www.mitrask.com

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate. 3. Pagladanga Road, Kolkata 700015 West Bengal

Tel. +91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000000717F

Doc No. MSK/GEN/19/07

TESTING . INSPECTION

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No. :

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

01/01/2024 - 16/01/2024 Permanent Facility

3000156017/056, Date - 16/09/2023

MSKNB/ED/2023-24/01/BEN1A5

MSKPL/ED/2023-24/N10E83

Chemical

16/01/2024

01/01/2024

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA .
4. Date of sampling	29/12/2023
5. Place of sampling	BBL-4343 Guruda Village
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das
9. Field Equipments Used	MSK/BBL/FIELD/RDS-18

Report No.: MSKPL/ED/2023-24/N10E83 Sample No.: MSKNB/ED/2023-24/01/BEN1A5

RESULT

Chemical Che					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BDL(DL:1.0)
2	Benzene	micro gnvm3	IS 5182 (Part 11)	5 (Annual)	BDL(DL 4.2)
3	Berizo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)
4	Lead (as Pb.)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	BDL(DL.0.01)
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4; June	Not Specified	0.06
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	BDL(DL:5.0)

Opinion:

Limit as per CPCB notification, New Delhi. 18th November 2009, for Ambient air quality.

Statement of Conformity NA

END -

Havenverd By

Signatura

Name Designation

Numerized Signators

Designation

Executive Chemiat

The results relate only to the semila) tested.

The resurs related only to the perpetuion of success in full, without the permission of Mitra S.K. Private Limited.

The meaning part of sample(s) for character analysis (Non-perishable sample(s) Food. Within) shall be retained for 15 days from the date of issue of the Test Report.

Permission of the Test Report.

The reserved part of sample(s) for character analysis (Soil, Soild & Liquid Waster) shall be retained for 15 days as per CPCB guidenn & (As). I month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non-perishable sample(s) Food. Sealed Water, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Tel: +91 7044036120 Email: udayanlab@mitrask.com







ULR: TC-695024000000716F

Doc No MSK/GEN/19/07

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date:

Sample No.:

Date of receipt of sample: Date(s) of performance:

Location of performance of Reference No. & Date:

Discipline:

MSKPL/ED/2023-24/C10E8B

16/01/2024

MSKNB/ED/2023-24/01/7DE173

01/01/2024

01/01/2024 - 16/01/2024

Permanent Facility

3000156017/056, Date - 16/09/2023

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	29/12/2023
5. Place of sampling	BBL-4342 Time Office
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das
9. Field Equipments Used	MSK/BBL/FIELD/RDS-2

Report No.: MSKPL/ED/2023-24/C10E8B Sample No.: MSKNB/ED/2023-24/01/7DE173

RESULT

hemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	BOL(DL-1.0)
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	BOL(DL:4.2)
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	BDL(DL:0.5)
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4 June	Not Specified	1.17
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	6.4

Opinion :

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

END -

Keytewed by

Designation

Authorized Signatory

Executive Chemist

The results relate only to the nem(A) spated

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The reserved part of sample(s) for chemical analysis (Non - perenative sample(s) Food. Water) shall be referred for 15 days from the date of issue of the Test Report. Perintuole sample(s) shall be retained 2 days.

from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil Soild's Liquid World) shall be retained for 15 days as per CPCB guideline & (Air) 1 inputs from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non- perchable sample(s) Food. Sealed Weller, Sealed food) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Strachi Cepte (Sh Floor), 748, A J.C. Bose Road, Kokata, 700016, West Bengal, India Tel. 91 33 40143000 / 22850007 Fav. 91 33 22950008 Email: info@mitrask.com Website: www.mitrask.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer :

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tel. +91 7044036120

Email udayanlab@mitrask.com

Tala Steel Ltd (MGM)_Joda West





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ULR: TC-695024000000715F

Doc No MSK/GEN/19/07

TEST REPORT

Report No.:

MSKPL/ED/2023-24/Y10E8X Date : 16/01/2024

Sample No.: MSKNB/ED/2023-24/01/7AT19J Date of receipt of sample: 30/12/2023

Date(s) of performance: 30/12/2023 - 16/01/2024 Location of performance of Permanent Facility

Reference No. & Date : 3000156017/056, Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4341 Jarouli High School Jurudi
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das
9. Field Equipments Used	MSK/BBL/FIELD/RDS-14

Report No.: MSKPL/ED/2023-24/Y10E8X

NA

Sample No.: MSKNB/ED/2023-24/01/7AT19J

RESULT

hemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	×1.0
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	<4.2
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	<0.5
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	1.29
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	<5.0

Opinion:

Limit as per CPCB notification. New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity

END

Baymeng By

Designation

Signature Marrie

Executive Chemat

Authorized Signato

Designation

The results relate only to the sem(s) tested.

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The reserved part of sample(s) for chamical enalysis (Non – perishable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) the retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Solid & Louid Waste) shell be referred for 15 days as per CPCB guideline & (Ar.) I month from the date of lease of the Teer Report.
The reserved part of sample(s) for Microbiological analysis (Non - penultable sample(s) Food, Sealed Waster, Sealed food) shall be retained for 15 days from the date of lease of the Teer Report.

Head Office: Streets Centre (5th Floor), 74B, A.J.C. Bose Road, Kokutta - 700016, West Bengal, India Tel: 91.33 (6143000 / 22650007 Fmx - 91.33 22050008 Email: infla@mitrask.com Websita - www.mitrask.com

Address of Laboratory:

Building No. P. 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel: +91 7044036120 Email udayanlab@mitrask.com







Doc No. MSKUBEN/1907

TESTING . INSPECTION

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MSKPL/ED/2023-24/H10E8V

MSKNB/ED/2023-24/01/5AK1BC

3000156017/056, Date - 16/09/2023

30/12/2023 - 16/01/2024

ULR: TC-695024000000714F

Name & Address of Customer:

Tata Steel Ltd.(MGM)_Joda West

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No.:

Date:

Sample No. :

Date of receipt of sample: Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

16/01/2024

30/12/2023

Chemical

Permanent Facility

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	27/12/2023
5. Place of sampling	BBL-4340 Jajang High School
6. Environmental conditions during sampling & Transport	 Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall. No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Dhambrudhar Das
9. Field Equipments Used	MSK/BBL/FIELD/RDS-18

Report No. : MSKPL/ED/2023-24/H10E8V Sample No.: MSKNB/ED/2023-24/01/5AK1BC

RESULT

hemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	<1.0
2	Benzene	micro gm/m3	1S 5182 (Part 11)	5 (Annual)	<4.2
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	<0.5
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	<0.01
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.03
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	<5.0

Opinion:

Limit as per CPCB notification. New Delhi, 18th November 2009, for Ambient air quality.

Statement of Conformity NA

END -

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Signature Name

Designation

Authorized Blood

Designation

Executive Dresman

The results rolate only to the item(s) tested.

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The reserved part of samples is for chemical analysis (Non - perishable samples) Food, Walter) shall be retained 2 days.

from the date of issue of the Test Report.

The preserved part of sample(s) for chemical enalysis (Soil, Solid & Licaid Wests) shall be retained for 15 days as per CPCB guideline 5 (Air) 1 pronth from the date of cause of the Test Report.

The read-fund part of sample(s) for Microbiological analysis (Non - pershable sample(s) Food, Sealed Weter, Sealed food) shall be retained for 15 days from the date of assue of the Test Report.

Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal Tel. +91 7044036120 Email udayanlab@mitrask.com







Doc No MSK/GEN/19/07

Scan for Portal

ULR: TC-695024000000276F

Name & Address of Customer:

Tata Steel Ltd (MGM) Joda West

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 India

TEST REPORT

Report No. :

Date: 06/01/2024

Sample No.:

Date of receipt of sample:

Date(s) of performance: Location of performance of

Reference No. & Date :

Discipline:

28/12/2023 - 06/01/2024 Permanent Facility

3000156017/056, Date - 16/09/2023

MSKPL/ED/2023-24/F10E8U

MSKNB/ED/2023-24/12/KV52AU

Chemical

28/12/2023

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Almospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA NA
4. Date of sampling	26/12/2023
5. Place of sampling	BBL-4339 In front of Administration office
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure : 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Akash Setty
9. Field Equipments Used	MSK/BBL/FIELD/RDS-14

Report No. : MSKPL/ED/2023-24/F10E8U Sample No.: MSKNB/ED/2023-24/12/KV52AU

RESULT

Chemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	<1.0
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	<4.2
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	<0.5
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	<0.01
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	4.07
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	7.0

Opinion:

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity

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Baymand By

Sqrwuen

Description

Executive Chemist

Authorized State

The results relate only in the Semis) lested.

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The reserved part of sample(s) for chemical analysis (Non - peristrable sample(s) Food, Water) shall be retained for 15 days from the date of usus of the Test Report. Perishable sample(s) shall be retained 2 days from the date of usus of the Test Report.

The reserved part of sample(s) for Chemical analysis (Soil, Soild & Usuid Waste) stressed for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of this Test Report.
The reserved part of sample(s) for Chemical analysis (Non - perichable samplers) Food, Seared Water, Sealed food) shall be retained for 15 days from the date of issue of this Test Report.

Shraich Contre (5th Floor), 748, A J C. Bose Road, Kollula - 700016, West Bengel, India. Tel. 91 33 40143000 (22530007 Fax: 91 33 22650008 Head Office: Email info@mitrask.com Website www.micresk.com

Address of Laboratory:

Building No. P- 48, Udayan Industrial Estate, 3, Pagladanga Road, Kolkata 700015 West Bengal

Name & Address of Customer:

AVPo. - Joda, Dist. - Keonjhar, Odisha - 758034 Indla

Tata Steel Ltd (MGM)_Joda West

Tel.: +91 7044036120

Email: udayanlab@mitrask.com





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TESTING . INSPECTION

TEST REPORT

Report No.: Date:

MSKPL/ED/2023-24/K10EBA

06/01/2024

Sample No. :

MSKNB/ED/2023-24/12/66529R

28/12/2023

Date of receipt of sample:

28/12/2023 - 06/01/2024

Date(s) of performance: Location of performance of

Permanent Facility

Reference No. & Date:

3000156017/056, Date - 15/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(if any)	NA.
4. Date of sampling	25/12/2023
5. Place of sampling	BBL-4338 Bichakundi Basti Area Aganbari Center
6. Environmental conditions during sampling & Transport	 Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall. No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Akash Setty
9. Field Equipments Used	MSK/BBL/FIELD/RDS-18

Report No.: MSKPL/ED/2023-24/K10E8A

Sample No.: MSKNB/ED/2023-24/12/66529R

RESULT

hemical					
SI No.	Parameter	UOM	Method	Limit	Result
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	<1.0
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	<42
3	Benzo(a)Pyrene	ng/m3	(S 5182 (Part 12)	1 (Annual)	<0.5
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	<0.01
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.12
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	<5.0

Opinion:

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity

END -

Reserved By

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Designation

Authorized Signs

Designator.

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This reserved part of sample(s) for chemical analysis (Non - pershable sample(s) Food. Water) shall be retained for 15 days from the date of issue of the Test Report. Pershable sample(s) shall be retained 2 days from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Soild & Liquid Wiess) shall be reterined for 15 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report. The reserved part of sample(s) for Microbiological analysis (Non - perichable sample(s) Food, Sealed Water, Sealed food) shall be retained for 15 days from the date of same of the Test Report.

Head Office:

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Address of Laboratory :

Building No. P- 48, Udayan Industrial Estate. 3, Pagladanga Road, Kolkata 700015

Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

West Bengal

Tel.: +91 7044036120

Email: udayanlab@mitrask.com







ULR: TC-695024000000274F

Doc No. MSK/GEN/19/07

TEST REPORT

Report No.:

MSKPL/ED/2023-24/710E80

Date:

06/01/2024

Sample No.:

MSKNB/ED/2023-24/12/3M52CB

Date of receipt of sample:

26/12/2023

Date(s) of performance: Location of performance of 26/12/2023 - 06/01/2024

Reference No. & Date :

Permanent Facility 3000156017/056, Date - 16/09/2023

Discipline: Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique identification of sample(if any)	NA .
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4337 Time Office
6. Environmental conditions during sampling & Transport	Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Akash Setty
9. Field Equipments Used	MSK/BBL/FIELD/RDS-2

Report No.: MSKPL/ED/2023-24/710E80 Sample No.: MSKNB/ED/2023-24/12/3M52CB

RESULT

Chemical							
Si No.	Parameter	иом	Method	Limit	Result		
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	<1.0		
2	Benzene	micra gm/m3	(S 5182 (Part 11)	5 (Annual)	<4.2		
3	Benzo(a)Pyrene	ng/m3	(S 5182 (Part 12)	1 (Annual)	<0.5		
4	Lead (as Pb)	micro gm/m3	USEPA-IO 3.4, June	1 (24 Hours)	0.02		
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.62		
6	Nickel as Ni	ng/m3	USEPA-IO 3.4, June	20 (Annual)	5.40		

Opinion:

Limit as per CPCB notification. New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA

END

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Signature

Dissignation

Executive Chamlet

The results relate only to the item(s) tested:
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The reserved part of sample(s) for chemical analysis (Non - pershable sample(s) Food. Witter) shall be retained for 15 days from the date of eque of the Test Report. Penishable sample(s) shall be retained 2 days.

If you the date of issue of the Test Report.

from the date of issue of the Test Heport.

The reserved part of sample(s) for chemical analysis (Spil. Solid & Liquid Westle) shall be retained for 15 days as per CPCB guideline.

(Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - penahative sample(s) Food, Sealed Water. Sealed tood) shall be retained for 15 days from the date of issue of the Test Report.

Head Office:

Shrechi Centre (5th Floor), 748, A.J.C. Bose Road, Kolkata - 700016, West Bengal, India Tel. 91 33 40143000 / 72550007 Fex 91 33 22650008 Email info@mirask.com Website www.mitrass.com

Address of Laboratory:

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Name & Address of Customer:

At/Po. - Joda, Dist. - Keonjhar, Odisha - 758034 India

Tata Steel Ltd.(MGM)_Joda West

West Bengal

Tel.: +91 7044036120

Email: udayanlab@mitrask.com







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ULR: TC-695024000000273F

DOC NO : MSK/GEN/19/07

TESTING + INSPECTION

TEST REPORT

Report No. :

Date:

MSKPL/ED/2023-24/2101EN

08/01/2024

Sample No. :

MSKNB/ED/2023-24/12/3F52BC

Date of receipt of sample:

26/12/2023

Date(s) of performance: Location of performance of

26/12/2023 - 06/01/2024 Permanent Facility

Reference No. & Date :

3000156017/056, Date - 16/09/2023

Discipline:

Chemical

We hereby certify that the following sample Drawn by us has been analyzed with the following results:

1. Group	Atmospheric Pollution
2. Description of sample	Ambient Air
3. Unique Identification of sample(If any)	NA.
4. Date of sampling	21/12/2023
5. Place of sampling	BBL-4336 Time Office
6. Environmental conditions during sampling & Transport	 Temperature :18-32 deg C 2) Barometric Pressure: 735 mm of Hg 3) Rain fall No & Cold Chain Maintained
7. Sampling Plan & Method used	IS:5182(P-11,12) & USEPA
8. Identification of the personnel performing sampling by MSK	Akash Setty
9. Field Equipments Used	MSK/BBL/FIELD/RDS-2

Report No. : MSKPL/ED/2023-24/2101EN Sample No.: MSKNB/ED/2023-24/12/3F52BC

RESULT

Chemical								
SI No.	Parameter	UOM	Method	Limit	Result			
1	Arsenic as (As)	ng/m3	USEPA-IO 3.4, June	6 (Annual)	<1.0			
2	Benzene	micro gm/m3	IS 5182 (Part 11)	5 (Annual)	<4.2			
3	Benzo(a)Pyrene	ng/m3	IS 5182 (Part 12)	1 (Annual)	<0.5			
4	Lead (as Pb)	Em/mg oraim	USEPA-IO 3.4, June	1 (24 Hours)	0.02			
5	Manganese as Mn	micro gm/m3	USEPA-IO 3.4: June	Not Specified	0.38			
6	Nickel as Ni	ng/m3	USEPA-IO 3.4. June	20 (Annual)	7.6			

Opinion :

Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality

Statement of Conformity NA:

END -

University Dy

Signature

Designation.

Name

Authorities Transporture

Executive Chemist

The results relate only to the flem(a) tested

The reserved part of semple(s) for chemical analysis (Non - pershable sample(s) Food. Water) shall be retained for 15 days from the date of same of the Test Report. Pershable sample(s) shall be retained for 15 days from the date of same of the Test Report. Pershable sample(s) shall be retained for 15 days from the date of same of the Test Report.

from the date of issue of the Test Report.

The reserved part of sample(s) for chemical analysis (Soil, Solid S Liquid Weste) shall be retained for 10 days as per CPCB guideline & (Air) 1 month from the date of issue of the Test Report.

The reserved part of sample(s) for Microbiological analysis (Non - penshable sample(s)) Food. Sealed Water. Sealed food) shall be retained for 15 days from the date of issue of the Test Report.



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Page I of I

Ambient Air Quality Monitoring Report-November-2023

Report No.: AN/AAQ/	(5-JUM(2021)1-I	Date: 04/12/2023				
Name and Address	M/s.Ioda West Iron & N	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		4780098928/962		
of Industry:	(M/s TATA Steel			22/03/2022		
Sample Description/Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPLIZZITZIZZIENY 283 L/JEIM-CZ/AAQMS-Liii ALPLIZZITZIZZIENY 283 Z/JIIIM-CZ/AAQMS-2			
Sample Drawn By:-	Amazon Representative	Sample laward Dates	5,13.20,27 November 2023 & 2-December 2023			
Test Started Oni-	5,13(20,27 Nov 202) & 2-Dec-2023	Test Completed On:-	Test Completed On: 7,16,21,28 November-2023& 4-Dec-2023			
Sampling Procedure	ANIA/T2/Mart-III					

Sr. No.	LOCATION	Date of sampling	Philes puglar	PMzs pg/m	SOs pg/m²	NOE:	CU-
	McLinol Reference		(Fart 23)	(P4rt.50)	[Part-2]	(Battle)	(forr-£0)
		02/11/2023	- 66.5	25.0	11.5	27.2	BOL(DL-05
	1	(8/11/2025	60.6	.26,7	15.6	79.5	HOLDING HE
		09/11/2025	63.7	22.5	14.7	27.7	000.001 + 02
AAQMS-1	Nr. Time Office of-	EE/11/0023	56.0	20.5	13.0	30.5	804 (DL+05
rengato-t	JWIMM	46/13/2025	65.7	26.3	14.3	28.6	EDE (INL-0.5
		20/11/2023	71.2	31,0	13.3	26.8	TIDL TDL-115
		23/41/2023	61.7	23.R	10.3	29.5	101.(m0.5
-		39717/2022	67.1	26.4	11.8	28.0	1601. (DI -0.0
	Monthly Average Va	liie	64.1	25.7	13.1	28.5	MDL (D) +0.5
		02/11/2021	57.2	22.6	11.3	18.2	BD4.(DL~02
		04/11/2023	61.7	23.4	10.8	20.6	BIDL (DL-)LS
	Near D-Quarry	09(1)/2025	68.8	25.0	8.5	19.7	PEO (PO -0.5
AAQMS-2	Surrang Yard-	ENGT 1770203	51.2	25,1	9.3	15.8	FIDE (DE + 0.5
11/8/11/4	JWIMM	110/12/2023	57.7	24.7	10.4	17.5	1000 (b)(+1).5
	2000	20/19/2020	67.9	30.5	6.9	15.3	POLITICAL - ILS
		23/3.1/2023	62.4	28.8	9.4	18.2	BDL (TI) - 0.5
		27/11/2023	65.0	22.9	8.3	19.1	EDE ZUL - US
	Monthly Average Va	Iso	61.2	25.6	9,4	18.1	MDC/DL-0.

NOTES: • Please say orderment "Original Tea Report" in continu the authorizing of this report • Rosalis shall be referred to train a simpley) and applicable to testing parameters only. • Instrument and the report of every an half entired price and a special or discount to the second every an half entired price and a state of the original field.

Remark: - Ali Results are within Limit as per CPCB Standards.

Ventied by

Special Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 MIDC Budgon, Neggur Mahansshira, India 141 1.22
 ■ 91 8045685559 Email Info@mattan.in
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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-November-2023

Report No.: AN/AACVIN-J	EIM/2023/1-2	Date: 04/12/2023			
Name and Address of	M/s Juda West Iron &	M/s Juda West Iron & Manganese Mine		4700098928/962	
Industry	(M/s TATA Steel Limited)		W. O. date:	22/03/2021	
Sample Description/ Type	Ambient Air Quality (Core Zane)	Sample Ref. No.:-	ALPL/22112623/ENV-283 G/JEIM-CZ/AAQNS-3 ii ALPL/22112623/ENV-283-4/JEIM-CZ/AAQNS-4		
Sample Drawn By:-	Annon Repowentstwe	Sample Deward Date-	N.O.2027 November 2023	The second secon	
Test Started One	6;14;20;27 Nov-2023 & 2-Dec- 2023	Test Completed On:	7,16.21:28 November 2023& 4-Exe-2023		
Sampling Procedure	ANtd/7.2/Mon-03				

5r. No.	LOCATION	Date of sampling	PMor pg/m²	PM:	50): µg/m*	NO:	CO mg/m/
Method Reference		(5110) (Fun 29	Part 500	(Part 2)	(Part-6)	172/1-107	
		(12/11/2023	54.7	18,3	9.3	28.4	BDL (DL-0.4)
		06011/2023	61.2	21.4	11.2	26.1	BDL (DL -0.5)
	I STATE OF THE STA	(6)(1/202	62.8	23,6	11.4	26,9	BOL (PE-05
AADMS-T	Near D-Quarry	1//11/2023	57.6	18.4	8.7	27.3	BDL/D1-0.5
(0.100.00	Screen-JWIMM	19 (1)2020	59.1	237	17.4	26,0	HD1_(DL+0.5)
		30/11/2022	62.7	24.9	12.1	30.1	BD((D) -0.5
		23/11/2023	57.3	18,1	9.4	28.0	BDL (DL-705)
		29/11/2029	58.1	19,6	6.7	25.4	BDE (DE -0.5
	Monthly Average Va	lui	59.2	21.0	10.4	27.8	00L (DL-0.5
		02/(1000)	61.5	19.7	30.9	25.9	7074 (074-02)
	1	185/11/2027	57.2	16.8	30.4	25.1	801 (bu.com
		09/11/2023	60.0	20.4	12.7	26.5	BDL (DL-0.5)
ANDMS-6	North-Quarry Rest	12011/2020	52.6	18.3	10.0	25.4	801 (00.03)
	Shallor JVIMM	20/11/2023	59.1	19.7	11.7	25.8	BDL (DL-03)
		29/14/2023	56.7	18.5	21.2	25.6	BD1 (D1 0.5)
)	23/(1/2000	61,6	23.4	12.8	29.3	BDI (DL-0.5)
		27(11/2823	59.4	20.7	11.5	25.9	BD(_(D)L=0.1)
	Menthly Average Val	ius .	58.5	19.9	31.4	25.1	UDL/DL-0.5

NOTES: # Plane are entermed. "Original fort Export" for entermination of the region # though shall be relevant to bested complete, and applicable to make promisers only. # less reper studies to reperture of except on our entermination approved of Anserts Labor # 600s # less for # less feel to the first feel to the first feel to the first feel to the feel to the feel to the feel to the first feel to the feel to

Remark: • All Results are within Limit as per CPCH Standard:

Verified by

Spenal Rout

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-November-2023

Report No.: AN/AAQ/TS-1	HWC0111-3	Date: 04/12/2023			
Name and Address of		M/s Joda West Iron & Manganese Mine (M/s TATA Steet Limited)		47000089287062	
Industry:~	(M/s TATA Ste			22/05/2021	
Sample Description/Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/22112023/6NV-2K5-5/JFIM-CZ/AAQNS-3 ALPL/22112023/FNV-2K3-6/JUM-CZ/AAQNS-6		
Sample Drawn Byr-	Acadam Representative	Sample Inward Date:	6.13.20,27 Nevember-2023		
Test Started On	0.13,20,27 Note 2021 & 2-Dec- 2023	Test Completed On-	7,16,21,28 Newember-2/123& 4-Dec-2023		
Sampling Procedure	ANId/7.2/Mon-01				

St. No.	LOCATION	Date of sampling	PMa pg/mi	Phin pg/m²	50: µg/m²	NO:	CO CO
	Method Reference		(Fe1 23)	(244 30)	8-3182 (9a-1-2)	16/33/62 (6/47/6)	Parati
		00/11/2023	61.6	24,0	10.7	16.4	BDL (DL-425)
		07/11/2023	68.1	26.2	16.0	21.9	1871. (D1 (L1)
	San Share	10/11/2023	53.6	18.9	10.4	16,1	HOL (DL-0.5)
AAOMS-3	Near Railway	10011/2023	63.1	26.0	16.4	23.6	HI3((D1 - 0.5)
10 m 177 m	Siding-JWIMM	1991172023	67.2	23.7	153	21.8	19DL (DI - 0.3)
		21/11/2023	64.6	20.2	12.8	19.3	BEDL (IDL - 0.5)
		24/11/2023	69.2	26.8	35.4	23,6	BEIL (DL -0.5)
		25/11/2023	67.0	20.4	12.0	16.3	HDL_(DL=0.5)
_	Manthly Average Va	luse	61.9	23.5	13.6	19.9	BOL (DL-US)
		03/11/2003	72.6	27.0	16.4	313	not (bloc)
		07/11/0000	63.4	25.7	15.0	28.9	808, (01)-025
		10/11/2/23	68.1	20,8	12.9	28.1	BDL (DLOS)
A ACOMISIA	Near Gengeiguda	16/13/2021	57.1	183	11.7	26.5	THE CHANG
	Ph-JWIMN	HVF1/3033	63.6	23.7	12.B	27.3	BDE (DE JE)
		21/11/2023	67.0	25.5	15.2	28.9	MOE 021 (65)
		20/11/2023	63.5	20.8	13.3	32.6	BDE (DE-0.5)
		28/11/2027	60.2	19.7	12.0	28.0	TITL (DLASS)
	Mentidy Average Va	line	64.3	22.7	13.7	29.0	WOL (DE-0.3)

NOTES: • Please we naturally the figure to contem the number of the open • finally shall be related to tested completed and applicable to usual potential and . • Test representation to be represented on the contemporary of the open of

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Deputy Technical Manager

-End of Report-

Authorized Signatory

Dr. (Mrs.) S. D. Gatway Quality Manager





Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 ↓ 91:3045035558 © Emili Indoquatarini m
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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-November-2023

Report Nu.; ANIAAQCIS-	IEIM/2023/1-II	Date: 04/12/2023	
Name and Address of Industry:-	M/s Joda West Iron (M/s TATA	a & Manganese Mine Steel Limited)	W. O. No. 4790098929/992: 22 03,2072
Sample Description/Type	Ambient Air Quality (Bullet Zone)	Sample Ref. No.~	ALPL/22112023/ENV-283-14/JEM-#Z/AAQMS-1 & ALPL/22112023/ENV-38LL15/JEIM-#Z/AAQMS-2 & ALPL/22112023/ENV-283-16/JEM-#Z/AAQMS-1
Sample Drawn By:-	Anaryo II, pregentative	Sample Inward Dates	6-November-2023
Test Started On-	7-November-2023	Test Completed On-	8-November-2023
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PM ₀ µg/m ³	PM13 µg/m3	SO ₀ µg/m ³	NO ₁	CO mg/m2
	Method Reference		(Part 23)	(Part 50)	15:5182 (Fart-2)	15:5 T82 (Part-6)	(5:5182 (Part-10)
AAQMS-1	Bichhakundi Front of Administrative Office	04/11/2023	54.6	21.3	0.2	16.4	BDL (DL (0.5)
	Monthly Average Value		54.6	21.3	9,2	16.4	BDL (DL-0.5)
AAQMS-2	Bichhakundi Basti Area Aganwadi Center	04/11/2023	47.2	15,8	6.7	16.1	BD1_(D1-0.5)
	Monthly Average Value			15.8	6.7	16,1	BDL (DL-0.5)
AAQMS-1	Lab Building-joda	04/11/2023	53.9	22.7	9.1	18.4	BUI (OLOS)
Monthly Average Value			53.9	22.7	9,1	18.4	BDL (D1-0.5)
NAAQM Standard			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)

NOTES:

Place of volume of volume to continue to deliver the report

Research delities relevant to instead amplifying applicable in usual parameters only.

The report shall not be reported and be reported and problem ported approximate Assembly the State State

Remark: - All Results are within Limit to per CPCI Standards.

Verified by

Snebal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

-End of Report-





Angeon Laboratories Put. Ltd. Nagpur Lab

Q FP-34, 36, Food Park, Five Shir Industrial Estate. MIDC Bullbon, Nagpur, Maharashira, India - 4-1 122 14 : 91 B049G85G5E ■ Email: Infortaminton in If them: // www.innacrotaporatories.com

Test Report

Page 1 of 1

Report No.: ANAAQYE	S-JEIM/2023/1-9	Date: 04/12/2023	
Name and Address of Industry:-	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		W. O. No. 4700008978/0/2 27/03/2022
Sample Description/Type	Ambient Air Quality (Buffer Zone)	Sample Ref. No.:-	ALPL/22112020/ENV-283-17/IIIM-BZ/AAQMS-4.A ALPL/22112020/ENV-283-18/JEIM-BZ/AAQMS-5.6 ALPL/22112020/ENV-281-19/JEIM-BZ/AAQMS-6.
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	27-November-2023
Test Started On:	28 November 2023	Test Completed On:-	29-November-2023
Sampling Procedure	ANtd/7.2/Mon-01		

5r. No.	LOCATION	Date of sampling	PMn µg/m	PM14 µg/m²	SO: µg/m	NO: µg/m²	CO mg/m ³
	Method Reference		(Part 23)	USEPA-40 (Part 50)	(5:5182 (Part-2)	(9.51B2 (Part-5)	(5/5382 (Part-10)
AAQMS-4	Rhondbond Mines	25/11/2023	56.1	24.77	12.6	21.9	M74. (D40.5)
	Monthly Average Value		56.1	24.7	12.8	21.9	BD1 (DL-0.5)
AAQMS-5	Rathi Hatting Pump House	25/11/2023	463	16.4	73	17.9	BD/L (C/L-0.5)
AAQMS-5	Kathi Hatting	25/11/2023	463	16.4	73	17.9	BD/L (C/L-0.5)
	Monthly Average	Value	46.3	16.4	7.3	17,9	#DL (DL-0.5)
AAQMS-6	Roida High School	25/11/2023	51.6	17.2	9.1	18.4	MEN. (DL-0.5)
	Monthly Average	Value	81.6	17.1	9.1	18.4	SDL (DL-9.8.
	NAAQM Standard		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	(8hrs)

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Remark: - All Results are within Limit as per CPCB Standards,

Spenal Raul

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) 5. D. Garway

Quality Manager

End of Report





Anacan Laborataries Pvt. Ltd. Nagpur Lah

PP-34, 35 Food Park, Five Still todustrial Estate, MIDG Buttoot, Nagour, Mahaneshtra, India -441, 122.
 ► 91 8045665656 Empli: info@emocon in 0 1909. // www.majcontauoretonies.com

Test Report

Page 1 of 7

Ambient Air Quality Monitoring Report-November-2023

Report No.1 AN/AAQ/TS-JEIM/2023/1-10 Date: 04/12/2023 W. O. Sa. Name and Address of M/s Joda West Iron & Manganese Mine 47(D098978.867 Industry: (M/s TATA Steel Limited) 22.03.2022 Sample Ambient Air Quality ALFL/22112023/ENV-283-20/JEIM-BZ/AAQM5-7 Sample Ref. No.:-Description/Type (Bullet Zone) Sample Drawn Dy-Amount Paymesenfullive Sample Inward Dater-13-November-2023 Test Started Oir-17-November-2023 Test Completed On:-18-November-2023 Sampling Procedure ANtd/7.2/Man-01

Sr. No.	LOCATION	Date of sampling	PMn µg/m	PM ₂₈ µg/m ⁵	SO: µg/m²	NO ₂ μg/m ³	CO mg/m³
	Method Reference		(5.51%2 (Part 23)	USEPA-40 (Part 50)	(5:5182 (Fait-7)	(Fart-6)	(5:5182 (Part-10)
AAQM5-7	Ioda West Camp	11/11/2023	47.2	15,8	6,7	16.1	BDL (DL-0.5)
Monthly Average Value		47.2	15.8	6.7	16.1	BDL (DL-0.5)	
NAAQM Standard		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)	

NOTES • Process of the Process of the Second Control of the Second

Remark; - All Results are within Limit as per CPCB Standards.

12

Spelial Naur

Depaty Technical Manager

Authorized Signatury

Dr. (Mrs. 15 D. Garway

Quality Manager

----End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Fugitive Emission Maniforing Report-November-2023

Report No.: AN/FE/TS-JEIM	Date: 30/11/2023		
Name and Address of Industry:-	ss of M/s Joda West Iron & Manganese (M/s TATA Steel Limited)		W. O. No. 4700098928961 22,03,2022
Sample Description/Type	l'ugitive Emission	Sample Ref. No.>	ALPL/22112023/ENV-283- //EIM/FE-1 to 12
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	13/11/2023
Test Started On:-	17/11/2023	Test Completed On:-	17/11/2023
Sampling Procedure	ANId/7.2/Moo-01		

SI. No.	Location Name	Date of sampling	TSPM μg/m²	
		Method Reference	IS 5182 (Fart 23)	
FE-T	Haul Road Near H-Quarry	06/11/2023	752	
FB-2	Haul Road Near Time Office	06/11/2023	814	
FE-3	Near Gangeiguda Pit	06/11/2023	391	
FE4	Near Screen Plant	06/11/2023	476	
MoEF & CC Norms		1200 µg/m ²		

NOTES: • Place see assumed Toronto Test Separt: to continue the surfacetarity of this copers. • Results shall be referred to belief sampless) and applicable in sector patemeters only . That report shall not be reported as except in full without prior written appeared of Annion Labs

Remark: - All Results are within Limit as per CPCB Standards.

Verilled by

Seefal Rout

Deputy Technical Manager

Attiturized Signapory

Dr. (Mm.) S. D. Garway

Quality Manager

End of Report-



Anacan Laboratories Pvt. Ltd. Nagpur Lab

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MIDC Bulbon, Nagpur, Maharashtra, India -441-122

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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-October-2023

a Total Constant		array and a second	Date: 0	3/11/2023	
Bepart Nu.: AN/AAC/TS-JEINC/9/27/1-1			W. O. No.	4700098928967	
Name and Address of Industry	(M/s TATA Stee	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		22/03/2022	
Sample Description/Type	Ambient Air Quality (Care: Zone)	Sample Ref. No.	ACPL/23102023/ENV-761-LITEIM-CZ/AAQM5-1 ALPL/23102023/ENV-261-LITEIM-CZ/AAQM5-1 9,10,25,20 October -2023		
Sample Drawn lly	Anacan Representative	Sample Inward			
Test Started On:-	9.16,23,33 Clouber-2023	Test Completed One-	10.17/25.51 October-2023		
Sampling Procedure	ANIGT2/Mon/01				

Sr. No.	LOCATION	Date of sampling	PMu:	PMi- µg/m²	SO: pg/m/	NO: ug/m²	(CO
Meshad Reference		(5 51 HZ (Part 23)	USEPA-ID (Part 50)	15:5182 (Part 2)	55142 (tars/s)	\$5184 \$1945 \$100	
		102/11/28025	65.6	27.6	12.9	24.4	BDE (DC-155)
		05/10/2023	60.1	2A.6	12.2	25.1	BDL (DL,-0.5)
		09/10/2023	57.6	259	14.7	26.6	mornin-use
	Nr. Time Office of	(2/)0/2025	64,2	23.4	12.6	27.5	B10 (D) -0.29
AAQMS-1	IWIMM	16/10/2003	76,9	26.3	13.3	27.9	BDL (DL-05)
	Interest	19/10/2023	79.5	31.4	54.0	20.4	MD1 (EI) - 050
		23/00/2020	73.8	28.4	12,9	33.9	IND) (DE-05)
		26/10/2823	75.5	32.5	11.9	31.4	BDC (D): - DE
	Muntbly Average Va		70.4	27.3	13.1	28.1	801/40L-03
		TOTAL PARTY OF THE T	73.2	26,0	13.7	29.9	BDL (D). + 0.5
		165/10/2023	66.7	23.3	12.5	33,1	1001 /01 - 03
		19710/2023	65.4	28,5	13.7	29,5	BCIL (THE - 11.6
	Near D-Quarry	12/10/7023	72.5	24.0	14.4	27.9	1901 (DI -05
AAUAUS-Z	Section Yard	16/18/2023	76.1	33.0	14.9	30.4	MEDICAL TO
	DWIMM	19/10/2023	81.7	26.9	13.3	27.7	RDL (DI - o :
		23/10/2025	77.8	23.6	12.6	29.5	BOL (DL-0.5
		26/10/2023	73.1	21.0	11.8	27.2	6DX (D) - 9.5
	Monthly Average V		73,3	25.5	15.4	29.3	HDL ON 0.5

NOTES: # Phone on contaminate Torighout Tear Report to continue the authenticity of two report. # Results shall be referred to tested completely and applicable to quoted perspection only. # Test report shall not be represented as even to full without prior works appeared of Annual Labor. # BDL - Edited Associate to tested.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Smetral Raul

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager



End of Report-



Angeon Laboratories Pvt. Ltd. Nagpur Lab

♥ P.O.4, 35, Food P.NO., Five Star mountain Estato, MIDC Bulbon, Nagpur Mahar shira, (nota - 4/1 17) • Or IIO45685556 ♥ Emil info@min on in it files // www.anacontacontectories.com

Test Report

Page 1 of 1

Ambient Air Onality Monitoring Report-October-2023

W At . Howards II	1200000	unity monitoring is	Date: 0	3/11/2023	
Report No.: ANIAAQITS-HEMOUES/I-2			W. O. Nu.	4T0000092X/962	
Name and Address of Industry:	(M/s Joda West Iron o	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		220302003	
Sample Description Type	Ambient Air Quality (Core Zone)	Sample Ref. No	ALPL/23102023/ENV-261-3/JEIM-CZ/AAQMS-3 (ALPL/23102023/ENV-261-4/JEIM-CZ/AAQMS- 2.10/23-30 October - 2025 10.17/25/31 October-2023		
Sample Drawn By-	Annaum Representative	Sample Inward Outer-			
Test Started On-	o 1623,36 October-2023	Test Completed On-			
Sampling Procedure	ANtd/7.2/Men-01				

Sz.No.	LOCATION	Date of sampling	PM: µg/m²	PMo pg/m)	SO: pg/m³	NO ₂ ug/m³	mg/m)
Mittae Aufe trac		18-5382 18-47-730	LISENA III. (Post SVI	Fd4NT Pace/X	(5.53E) (Fe-13)	(Bay 10)	
		(0/10/2003)	71.0	21.8	13.7	26.6	BEN (D) -10.5)
		(5/10/202)	64.3	18,2	14.4	247	BDL (DL - 0.5)
		(9/10/2022)	72.2	7.0.1	17.6	264	UDL (UL =15)
5.00	Near D-Ovarry	12/13/2023	61.9	18.7	9.2	18,3	BOLDU INS
LAQMS-3	Screen-IWIMM	16/10/2023	71,3	21.4	11.7	21.9	NDL-(DL-0.5
1		19/10/2023	67.1	19.3	8.7	16.4	BOL (DL-us
1	- 1	34/19/2025	58.7	18.1	9.3	18.2	BOL (DIL - 0.5
		26/00/0073	61.8	21.6	11.4	21.9	BD4.304 - 0.5
	Monthly Average Va	lue	66.2	19.9	11.4	21.8	BUT (DL-0.5
		(2/(1/2)2)	53.6	25.3	8.7	17.9	BDC (DL-05)
		na/ro/ares	59.2	27.0	8,3	20.4	BDL (D) -0.5
		19/10/2023	57.6	25.7	71	23.4	BDL (D) -ILA
	Near H-Quarry Ross	72/10/2020	68.5	29.5	10.5	19.2	BEAL (Distable
AANMS-I	Shelior JWIMM	(800.QX79.Y	61.8	30.7	9.3	23.8	TEXT (D) 10.5
	W. W	19/11/2025	55.5	25.4	10:1	21.3	BEAL (DIL-0.5
		13010/2023	52.3	28.7	8.6	16.7	HOL (EAL O.)
		7894470025	50,6	24.0	9.7	20.6	BDE (D) - 02
_	Monthly Average V	due	57.1	27.0	9.0	20.4	\$601, (101-0)

NOTES: • Plane and unterfaced. Comment Test Regard to continue the authorizons of this request. • Results shall be reduced to sected amplitude to consider appropriate unity. • Test report most not no requirement except around a content appropriate of A content to the first of the detection footh.

Remark: - Aff Results are within Limit as per CPCB Standards.

Verified by

Suchal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

--- End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-October-2023

Report No.: AN/AAQ/18-1	EBM/2023/1-3	Dare: 03/11/2023			
Name and Address of M/s Joda West Iron & Manganese Mine		W. O. No.	47E000W92W96Z		
Industrys	(Ms TATA St	(M/s TATA Steel Limited)		22/02/2002	
Sample Description/Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/23102023/ENV-261-5/JETM-CZ/AAQMS ALPC/23102023/ENV-261-6/JETM-CZ/AAQMS		
Sample Drawn By>	Armano Represenzove	Sample Inward Dates	9.16,23,50 October -2023		
Test Stanted On:-	0.16.23,30 October-2021	Test Completed On:-	10,17,25,31 October-2023		
Sampling Procedure	ANid/7.2/Mon-01				

St. No.	LOCATION	Date of sampling	PM is pig/no?	PMan applied	50: µg/m²	NO ₁	CO:
	Method Reservore		WALEST DAME STORY	(//27/40) (/20150)	15/5L12 (Part-2)	5110 2176	(Can-10)
		VIV.40/50(E)	56.5	22.5	6.7	17.3	800 (D)L -0.55
		90/10/2021	50.7	21.3	7.2	15.6	BEAL (DIL = 0.5)
	No. 27	+0710/2023	55.4	18.4	7.6	15.9	BLD. (DL - 11.5)
AAQMS-5	Near Railway	13/30/2003	51.8	37.6	6.7	17,8	8D1 (DL-05)
	Siding-JWIMM	19/30/2023	61.2	19.6	7.5	16.5	BER (III - (15)
		10/10/2025	53.1	16.0	6.2	15.3	SDL (DL-0.5)
		10/10/2023	63.2	21.3	8.7	14.7	BDL (DL-0.5)
		27/10/2025	51.6	17.1	6.9	16.7	8DL (DL-0.5)
	Monthly Average Va	lae	55,2	19,5	7.2	16.2	BDL (I)1 - 0.5
		EVEVES	55.7	20.5	13.0	25.5	BUL (OL-0.5)
		06/1/2003	57.5	23.4	10.9	24.1	HDL (D1-45)
100		10/10/0025	60.8	25.5	11.5	25.9	UDL (DL 0.5)
AAOMS-6	Near Gangetguda	CONTRACTOR	64.5	22.1	10,1	27.0	DOE HAS DO
314003	Pit-JWIMM	177419/20123-	60.1	25.0	12.3	25.0	trest (be-us)
		30/10/2025	63.2	23,4	11.2	26.8	BUL (DE AS)
		24/19/2023	50.7	21.7	9.6	23.2	Bot (nuis)
		27/13/2023	65.5	24.7	11.1	22.2	BDL (DL=45)
	Monthly Average Val	luc	61.0	23.3	11.2	25.0	0DL (DL-0.5)

NOTES: *Pierce ser entermark: Edizional Less Report: au consum the numerousny of this report. * Results shall be reterred to tested simplicity and applicable to tested parameters comp. * Services of duttion to reproduce describe the first services agreed of Associations * ODE- Balon detection that:

Remark - All Results are within Limit in por CPCB Standards,

Verified by

Spenal Raut

Deputy Technical Mmager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager

10

--- End of Report-



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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-October-2023

Report No.: AN/AAD/TS-JEB67023/1-8			Date: 03/11/2023		
Name and Address of Industrys-	mess of M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)				W. O. No. 1700098928/9s2 22.01.2022
Sample Description Type	Ambient Air Quality (Buller Zone)	Sample Ref. No.:-	ALPL/23102023/ENV-261-14/JEIM-BZ/AAQM5-1 & ALPL/23102021/ENV-261-19/JEIALBZ/AAQM5-2 A ALPL/23102021/ENV-260-16/JUM-BZ/AAQM5-3		
Sample Drawn By:-	Annua Representative	Sample Inward Date-	9-October-2023		
Test Started On:-	10-October-2023	Test Completed On-	11-October-2023		
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	PM _m µg/m	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO: µg/m³	CO mg/m ³
	Method Reference		(Part 23)	USEPA-40 (84(150)	(5:5182 (Part-2)	(Part-6)	(5:518Z (Rart-10)
AAOM5-1	Bichhakundi Front of Administrative Office	07/10/2023	54.7	18.2	9.1	17.3	BDC (CIC 0.5)
	Monthly Average Value		54.7	18.2	9.1	17.3	BDL (DL-0.5)
AAQM5-2	Bichhakurdi Basti Area Agamwadi Center	07/10/2023	47.3	16.1	7.2	18,3	BDL (DL 65)
	Monthly Average	Value	47.3	16.1	7.2	18.3	BDL (DL-0.5)
AAQM5-3	Lab Building-Joda	07/10/2023	51.7	21.4	7.6	16.1	804 (Di-05)
	Monthly Average	Value	51.7	21.4	7.6	16.1	DDL (DL-0.5)
	NAAQM Standard		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)

NOTES: • Plane are walnumer. 'Original Test Equal' to continue the embergacy of this report, • Senate shall be reserved to lessed comparing and applicable to peace parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only. • Test report shall not be reported to any other parameters only of the parameters of the parameters

Remark: - All Results are within Limit of per CPCB Standards.

Verified by

Suchal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager

--- End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

♥ FP-34, 30 Acord Park, Five Star Industrial Estate;
MIDC Bulbon, Nagpur, Maharashtra, India, 441 (10)
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Test Repure

Page 1 of 1

Ambient Air Quality Manitoring Report-October-2023

Report No.: AN/AAQ/TS-IEIM/2023/1-0			Date: 03/11/2023
Name and Address of Industry:-	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		W. O. No. 4700000928/992 22.07/2022
Sample Description Type	Ambient Air Quality (Butter-Zone)	Sample Ref. No	ALPL/23102023/ENV 261-17/JLIN-BZ/AACMS-4 & ALPL/23102023/JUNV-261-18/JEIM BZ/AACMS-6 ALPL/23102023/ENV-261-19/JEIM-BZ/AACMS-6
Sample Drawn By-	Анасов Керпечентаруе	Sample Inward Date:-	30-October-2023
Test Started On-	30-October-2023	Test Completed On-	1-November-2023
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PM ₁₀ µg/m ³	PM25	SO: µg/m²	NOt ug/m	CO mg/m³
	Method Reference	0 1	(Part 23)	USEPA-40' (Part SD)	(5)5182 (Fart-2)	(5:5182 (Part-6)	IS 5182 (Part-10)
AAQMS-4	Khondbond Mines	28/10/2023	61.7	23.8	12.6	26.1	BDL (191-05)
1	Monthly Average Value	2	61.7	23.8	12.6	26.1	BDL (D) -0.5)
AAQMS-5	Kathi Hatting Pump House	28/10/2023	52.9	-17.6	8.1	16.4	BDL (DL-0.5)
-	Monthly Average	Value	52.9	17.6	8.1	16,4	BDL (DL-0.5)
AAQMS-6	Roida High School	28/10/2023	50.6		-		
renggara-a				23.7	9.2	15.1	mirthmeta)
	Monthly Average	Value	53,6	23.7	9.2	18,1	BDL (DL-0.5)
	NAAQM Standard		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	(8hrs)

NOTES: • These are naturally. "Original Line Report" to contem the authorizing of this report. • Results shall be relicion to used sample(s) and application to tested parameters only. • Link appearantly of the regulated a copy of sall authorizing approval of America Late. • BDL- Below detection limit.

Remark: - All Kesults are within Limit as per CPCB Standards.

Verified by

Smehal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) 5. D. Garwiny

Quality Manager

----End of Report-



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Page 1 of 1

Ambient Air Quality Manitoring Report-October-2023

Report No.: AN/AAQ/TS-JEHM/2023/1-10			Dute: 03/41/2023		
Name and Address of Industrys	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		W. O. No. #700008028/062		
Sample Destription/Type	Ambient Air Quality (Buller Zony)	Sample Ref. No.:-	22.05:2022 AUH /23100023/ENV-261-20/JEIM-BZ/A AQMS-7		
Sample Drawn By:-	Anteon Representative	Sample Inward Dates	16-October-2023		
Test Started One-	17-October-2023 Test Completed On:-		18-October-2023		
Sampling Procedure	ANId/7:2/Mon-01				

Sr. No.	LOCATION	Date of sampling	PM _m μg/m ⁵	PM ₂₈ μg/m ¹	SO ₂ µg/m ³	NO ₁ µg/m ³	CO mg/m ³
	Method Reference		(5 S187 (Part 23)	USEPA-40 (Part 50)	(Part-2)	5:51 2 Port-6	15.5352 (Pert-10)
AAQMS-7	Ioda West Camp	14/10/2023	53.7	28.2	7.9	16,4	80L001-031
Monthly Average Value		53,7	19.2	7.9	16.4	BDL IDL-05	
NOTES: 4 PL	NAAQM Standard		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	(8hrs)

NOTES: • Plant — witermark "twigned but Merced" in continue the authorities of the separate two remaind in mater sample(s) and applicable to tested parameters with a Test report shall make beginning in talk without pure or the appropriate of America and the separate and applicable to tested.

Remark: - All Results are within Limit as per CPCB Standards.

Venilled by

Snebul Rout

Deputy Inchescal Manager

Authorized Signatory

Dr. (Mis.) S. D. Canvay

Quality Manager

-End of Report-





Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Fuvitive Emission Report-October-2023

		cepuri-cremoer-2023	
Report No.: AN/FE/TS-JEIM	Date: 31/10/2023		
Name and Address of Industry:-	M/s Joda WestIron (M/s TATA S	W. O. No. 4700098928/962 22.03.2022	
Sample Description/Lype	Fugitive Emission	Sample Ret. No.:>	/JEIM/FE-1 to 12
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	16/10/2023
Test Started On-	16/10/2023	Test Completed On:-	17/10/2023
Sampling Procedure	/ANtd/7.2/Mon-01		

SI. No.	Location Name	Date of sampling	Hg/m
		Method Reference	IS 5182 (Part 23)
FE-1	Haul Road Wear H-Quarry	09/10/2023	794
FE-2	Haul Road Near Time Office	09/10/2023	837
FE-3	Near Gangelguda Pit	09/10/2023	652
FE-4	Near Screen Plant	09/10/2023	493
	MoEF & CC Norms:	1200	µg/m³

NOTES: • Please are paternack: "Original Test Report" to confirm the authoritisty of this report. • Results shall be referred to tested samplets; and applicable to rested procession under • Test report about one to propose a countries of the without process of Archanol Labor.

Remark; - All Results are within Limit as per CPCB Standards:

Venired by

Snehal Raut

Deputy Technical Manager

Authorized Signatury

Dr. (Mrs.) 5 D. Garway

Quality Manager

-End of Report-



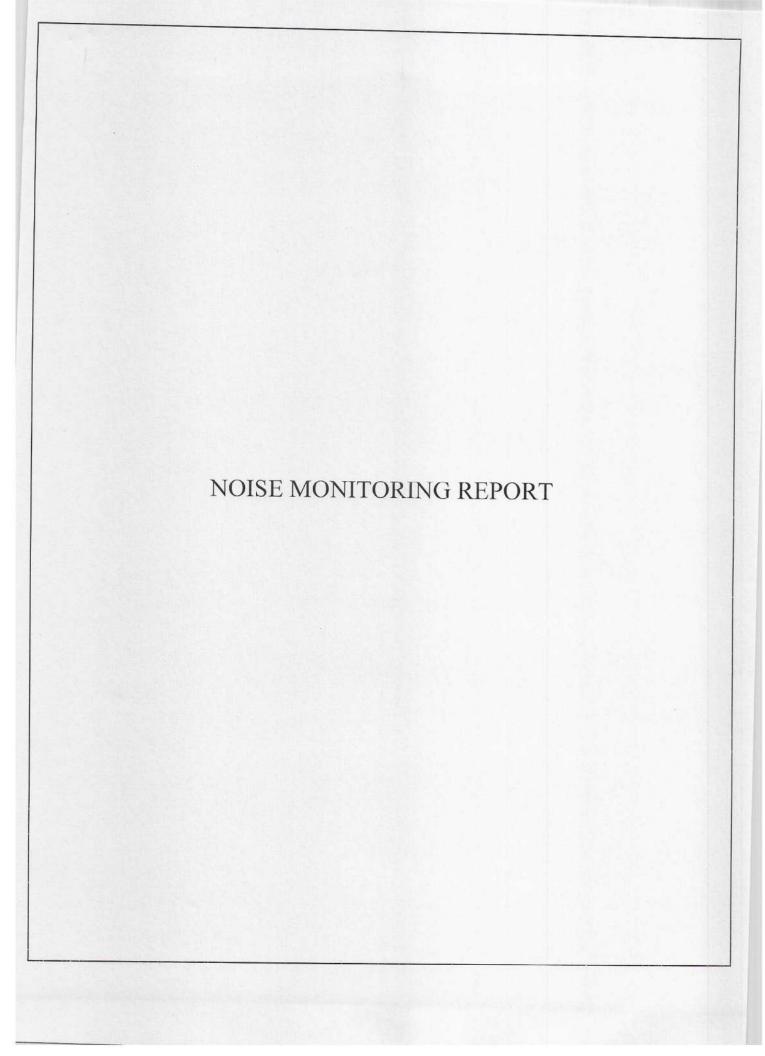
Photographs of Fugitive Dust control Measures deployed at site











Mitra S. K. Private Limited

At/P.O.:BARBIL Ward No-6 Dist.: Keonjhar, Odisha - 758035 CIN: U51909WB1956PTC023037



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E : barbil@mitrask.co.in
W : www.mitrask.com

	No. MSKGL/ED/2024-2		DEDOOT OF THE		Date: (04.04.2024	
Name	of the Client	M/s. TA	REPORT OF AMBIE TA STEEL LIMITED	NT NOISE			
Name of 11 ag			EST IRON & MANGANES	E MINES (IV	VIMM)		
SL. Monitoring Loc				Date Monitoring		e Level in d	B (A)
1.				Ld	Ln	Ldn	
1.	In side Gara	ge	18.03.2024	63.9	39.9		
2.	In Front of Admin	Office	18.03.2024		39.9	61.9	
3.			10.03.2024	50.5	40.8	48.9	
	In Front of Can	teen	18.03.2024	48.2	46.1	47.5	
4.	Shorting Yard Rest	Shelter	18.03.2024			47.5	
5.	250 meter from Scre			63.6	47.0	61.8	
			19.03.2024	66.6	61.3	65.4	
6.	D-Quarry Shorting	g Yard	19.03.2024	48.2	46.6	47.8	

Note: Day Time: 6.00 AM -10.00 PM, Night Time: 10.00 PM- 6.00 AM

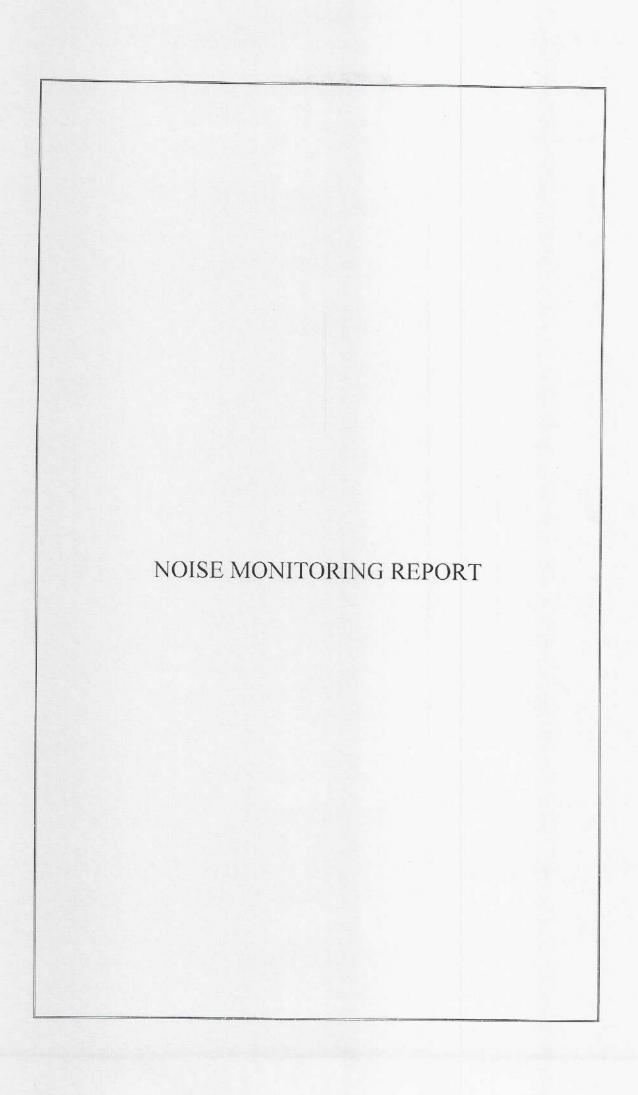
AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE AS PER CPCB GUIDELINES

AREA CODE	CATEGORY OF AREA / ZONE	LIMITS IN dB (A)		
4		DAY TIME	NIGHT TIME	
A	INDUSTRIAL AREA	75	70	
В	COMMERCIAL AREA	65		
C	RESIDENTIAL AREA		55	
D		55	45	
	SILENE ZONE	50	40	

Checked by:-

For Mitra S. K. Private Limited

Authorised Signatory



Mitra S. K. Private Limited

At/P.O.:BARBIL Ward No-6 Dist.: Keonjhar, Odisha - 758035 CIN: U51909WB1956PTC023037 TESTING INSPECTION

T:+91 94370 09815,94370 09820,94370 75269

E : barbil@mitrask.co.in W : www.mitrask.com

Report	No. MSKGL/ED/2023-2	4/005057			Date: 2	9.02.2024
	MO	NITORING I	REPORT OF AMBIE	NT NOISE	The second secon	
Name o	of the Client		TA STEEL LIMITED			
Name of the Mines JODA WEST IRON & MA				E MINES (JW	/IMM)	
SL. Monitoring L		cation	Date Monitoring	Noise	e Level in di	B (A)
NO.	Docution		Date Monitoring	Ld	Ln	Ldn
1.	In side Gara	ige	08/09.02.2024	63.9	39.9	61.9
2.	In Front of Admi	n Office	08/09.02.2024	50.5	40.8	48.9
3.	In Front of Canteen		08/09.02.2024	48.2	46.1	47.5
4.	Shorting Yard Res	st Shelter	08/09.02.2024	63.6	47.0	61.8
5.	250 meter from Sc	reen Plant	09/10.02.2024	62.0	56.0	60.5
6.	D-Quarry Shorti	ng Yard	09/10.02.2024	48.2	46.6	47.8

Note: Day Time: 6.00 AM -10.00 PM, Night Time: 10.00 PM- 6.00 AM

AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE AS PER CPCB GUIDELINES

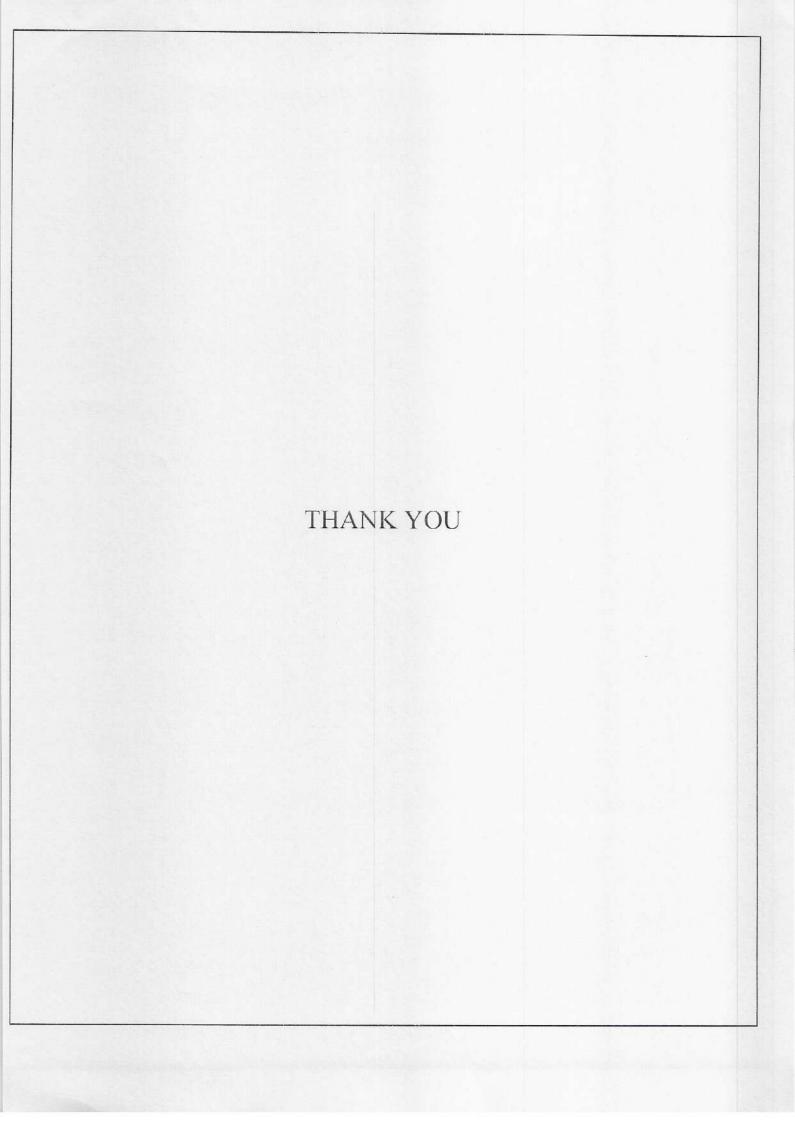
AREA CODE	CATEGORY OF AREA / ZONE	LIMITS IN dB (A)		
	arradont of Anta / Lone	DAY TIME	NIGHT TIME	
A	INDUSTRIAL AREA	75		
В	COMMERCIAL AREA	65	55	
C	RESIDENTIAL AREA	55	45	
D	SILENE ZONE	50	40	

Checked by:-

For Mitra S. K. Private Limited

B Luchary

Authorised Signatory



Mitra S. K. Private Limited



At/P.O.:BARBIL Ward No-6 Dist.: Keonjhar, Odisha - 758035 CIN: U51909WB1956PTC023037

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E : barbil@mitrask.co.in
W : www.mitrask.com

Report	No. MSKGL/ED/2023-2		Date: 10	0.02.2024		
	MON	ITORING I	REPORT OF AMBIE	NT NOISE		
Name of the Client M/s. TAT			TA STEEL LIMITED			
Name of the Mines JODA WEST IRON & MANGANESE MINES (JWIMM)						
SL. Monitoring Loca		action	Date Monitoring	Noise Level in dB (A)		
NO.	Monitoring Location			Ld	Ln	Ldn
1.	In side Gara	ge	15/16.01.2024	361.3	37.7	59.6
2.	In Front of Admi	n Office	15/16.01.2024	46.1	37.6	44.6
3.	In Front of Car	nteen	15/16.01.2024	60.8	52.7	59.4
4.	Shorting Yard Res	t Shelter	15/16.01.2024	60.0	41.0	58.3
5.	250 meter from Sci	reen Plant	16/17.01.2024	66.2	57.7	64.7
6.	D-Quarry Shortin	ng Yard	16/17.01.2024	67.1	54.6	65.5
						1

Note: Day Time: 6.00 AM -10.00 PM, Night Time: 10.00 PM - 6.00 AM

AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE AS PER CPCB GUIDELINES

AREA CODE	CATEGORY OF AREA / ZONE	LIMITS IN dB (A)	
AREA CODE	CATEGORI OF AREA / ZONE	DAY TIME	NIGHT TIME
A	INDUSTRIAL AREA	75	70
В	COMMERCIAL AREA	65	55
С	RESIDENTIAL AREA	55	45
D	SILENE ZONE	50	40

Checked by:-

For Mitra S. K. Private Limited
Authorised Signatory



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 https://www.anaconlaboratories.com

Test Report

Fugitive Emission Monitoring Report-November-2023

Report No.: AN/FE/TS-JEIM	Date: 30/11/2023		
Name and Address of Industry:-	M/s Joda West Iron (M/s TATA S	W. O. No. 4700098928/962 22.03.2022	
Sample Description/Type	Fugitive Emission	Sample Ref. No.:-	ALPL/22112023/ENV-283- /JEIM/FE-1 to 12
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	13/11/2023
Test Started On:-	17/11/2023	Test Completed On:-	17/11/2023
Sampling Procedure	ANtd/7.2/Mon-01		

Sl. No.	Location Name	Date of sampling	TSPM μg/m³
		Method Reference	IS 5182 (Part 23)
FE-1	Haul Road Near H- Quarry	06/11/2023	752
FE-2	Haul Road Near Time Office	06/11/2023	. 814
FE-3	Near Gangeiguda Pit	06/11/2023	. 391
FE-4	Near-Screen Plant	06/11/2023	476
	MoEF & CC Norms:	1200) μg/m³

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway

Quality Manager

----End of Report----



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 MIDC Butibori, Nagpur, Maharashtra, India - 441 122
 ► + 91 8045685558 Email: info@anacon.in
 ♦ https://www.anaconlaboratories.com

Test Report

Page 1 of 4

Noise Monitoring Report-October-2023

Report No.: AN/NE/TS-J	EIM/2023/1-16	Date:31/10/2023	
Name and Address of Industry:-	M/s Joda West Iron & Manganese Mine (M/s TATA Steel Limited)		W. O. No. 4700098928/962 date: 22.03.2022
Sample Description/Type	Noise Monitoring	Sample Ref. No.:-	ALPL/23102023/ENV-261 N/JEIM/NE-1 to 6
Sample Drawn By:-	Anacon Representative	Data Inward date:-	09/10/2023
Sampling Procedure	ANtd/7.2/Mon-01	Sampling Method	IS 9989:1981(R2001)

Sampling Date: 03/10/2023 to 06/10/2023.

•		Results dB(A)		
SI. No.	Location Name	Day Time (6:00 am to 10:00pm)	Night Time (10:00 pm to 06:00am)	
NE-1	Inside Garage –JWIMM	58.2	47.3	
NE-2	Infront of Admin Office -JWIMM	48.1	37.6	
NE-3	Infront of Canteen -JWIMM	51.9	48.1	
NE-4	Sorting Yard Rest Sheltor -JWIMM	62.8	51.6	
NE-5	250 Mtrs from Screen Plant -JWIMM	68.3	58.1	
NE-6	D-Quarry Sorting Yard –JWIMM	62.9	57.3	
Nor	Industrial Area	75.0	70.0	
ms:	Commercial Area	65.0	55.0	
1115.	Residential Area	55.0	45.0	

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

Remark: - All Results are within Limit as per CPCB Standards.

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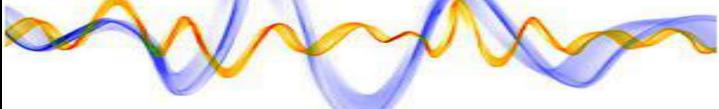
Snehal Raut

Deputy Technical Manager

Authorized Signatory

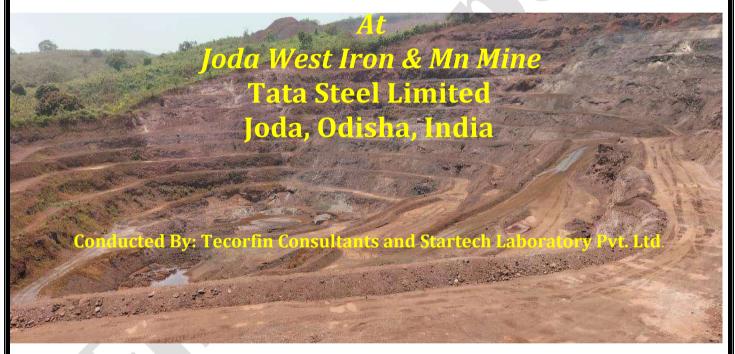
Dr. (Mrs.) S. D. Garway

REPORT ON ASSESSMENT OF WHOLEBODY AND HAND ARM VIBRATION EXPOSURE AT WORKPLACE



Duration of Study: 29th April 2022-30th April 2022

Report No.: STL/IH/E02/057/22



Monitored By : Y. Raghavendra Chary (Asst. Manager, Startech Labs)

Guided By : Birendra Jena (Sr. Manager, Environment, Tata Steel Limited)







1-58/7, Ilnd Floor, SMR Chambers, Madinaguda, Serilingampally, Hyderabad – 500 050, India. {Recognized Laboratory by ISO 9001-2015, OHSAS ISO 45001:2018, Directorate-General of Mines Safety,

Recognized Laboratory by ISO 9001-2013, OHSAS ISO 43001:2018, Directorate-General of Mines Safety. Directorate General Factory Advice Service and Labour Institute and Drugs Control Administration, T.S}

April 2022



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1.0 ABBREVIATIONS

ACGIH	American Conference of Industrial Hygienists
ANSI	American National Standards Institute
DGMS	Directorate General of Mines and Safety
Dist.	District
EU	European Union
НЕММ	Heavy Earth Moving Machineries
HAV	Hand Arm Vibration
WBV	Whole Body Vibration
ISO	International Organization for Standardization
Km	Kilometer
m/s ²	meter per second square
MTPA	Million Metric Tonnes Per Annum
MMR	Metalliferous Mines Regulations
MW	Mega Watt
NH	National Highway
OSHA	Occupational Safety and Health Administration
Pvt. Ltd.	Private Limited
TLV	threshold limit value
WD	Wheel Dozer
JWIMM	Joda West Iron & Mn Mine





2.0 INTRODUCTION

ABSTRACT:

The assessment of exposures of mine workers to various forms of induced vibration during their respective occupation forms an integral part of the Occupational Health Surveillance strategies of the company. A robust management system framework and a sound safety governance structure drive our health and safety measures. To achieve our objective of Zero LTI (Loss time injury), six long-term safety strategies are being implemented across Tata Steel. Tata Steel Limited (hereinafter referred to as "The Company") has engaged M/s Tecorfin Consultants Private Limited for undertaking detailed assessment of such exposure especially for the representative sampling subjects for different types of HEMM operators deployed at the mines. M/s Tecorfin Consultants Pvt. Ltd. has collaborated with M/s Startech Laboratory Private Limited, one of the recognized laboratories by ISO 9001-2015, ISO 45001:2018, Directorate-General of Mines Safety, Directorate General Factory Advice Service and Labour Institute and Drugs Control Administration, Telengana State, etc. The Present study has been conducted for 05 HEMM operators deployed at Joda West Iron & Mn Mine and were tested for their exposure to Whole Body Vibration as well as Hand Arm Vibration. The sampling and data collection has been carried out by Startech Laboratory using calibrated sensors and instruments. The collected data has been processed for estimating the Exposure Level and comparison has been done with applicable ISO standards. The assessment reveals that all the five identified HEMMs conforms to satisfactory Ergonomics as far as triaxial vibration exposure for both Whole Body Vibration as well as Hand Arm Vibrations are concerned. The observed values are well within the exposure action value of 2.5m/s² and 0.5m/s² for HAV and WBV respectively.

PROJECT DESCRIPTION:

About Tata Steel Limited: Tata Steel Group is among the top global steel companies with an annual crude steel capacity of 27.5 million tonnes per annum (MTPA) as on March 31, 2017. It is the world's second-most geographically diversified steel producer, with operations in 26 countries and a commercial presence in over 50 countries. The Group recorded a consolidated turnover of US \$18.12 billion (INR 117,420 crore) in FY17. Tata Steel Group is spread across five continents with an employee base of nearly 74,000. Having bagged the Deming Application Prize and Deming Grand Prize for continuous improvement in 2008 and 2012 respectively.





Tata Steel has now been recognised as the global 'Industry Leader' in 'Steel category' by Dow Jones Sustainability Index (2015). Besides being a member of the World Steel Climate Action Programme, Tata Steel has also been felicitated with several awards including the Prime Minister's Trophy for the best performing integrated steel

plant for 2013-14 (received in 2017), Best Risk Management by CNBC TV18 (2016), 'Best-in-class Manufacturing' award from TIME India (2016) and the 'Most Ethical Company' award from the Ethisphere Institute (2016), IIM Sustainability Award (2015), among several others.

Tata Steel Ltd (TSL) was established in India as Asia's first integrated private steel company in 1907. Established in 1907, the Group's vision is to be the world steel industry benchmark in "Value Creation" and "Corporate Citizenship" through the excellence of its people, its innovative approach and overall conduct. Responsible mining as a policy is the single most important reason for the sustained growth and prosperity of Tata Steel for over a century. Tata Steel's Raw Material operations are spread across India and Canada and helps the company to be self- sufficient in steel production and operating captive mines that help to maintain cost- competitiveness and production efficiencies through an uninterrupted supply of raw materials.

Tata Steels Raw Materials operations in India are mainly dealing with four broad minerals – Iron ore, Chromite, Manganese and Coal. The chromite and manganese mines and associated alloy making operations have been amalgamated under the 'Ferro Alloys & Minerals Division' that acts as a separate strategic business unit. Iron-ore and coal being the two key raw materials for steel making, efficient and scientific mining operations give us a competitive edge in steel production.

With an annual production of 360,000 MT, the Ferro Alloys and Minerals Division (FAMD) is the largest non-steel business unit of Tata Steel, operating chrome and manganese ore reserves in Odisha. Manganese ore requirement of company is met from Bamebari Iron & Manganese Mine, Joda West Iron & Manganese Mine, Tiringpahar Iron & Manganese Mine, and Khondbond Iron & Manganese Mine.

The company is operating four manganese mines in the Joda Valley in the district of Keonjhar, Odisha namely Bamebari Iron & Manganese Mine, Joda West Iron & Manganese Mine, Tiringpahar Iron & Manganese Mine and Khondbond Iron & Manganese Mines. The present report is in respect of Joda West Iron & Manganese Mine operated over mine lease area of 1437.719ha. The mining history of Joda West Mine is since 1930 when the first lease was granted by the





then Maharaja of Keonjhar. The Joda West mining lease is located at Bichhakundi, Kundurpani, Banspani villages at Barbil tahasil in Champua sub-division of Keonjhar district in the state of Odisha. The entire lease of 1437.719ha is bounded within Latitude from 21°58'00" N to 22°02'00" N and between Longitudes: 85°23'00" E to 85°26'00" E. The area falls under survey of India Topo sheet Nos. 73 G/5 & 73 F/8 (New Topo sheet Nos. F 45N5 & F45H8). The location of the JOda West Mines the INDEX MAP follows: is indicated in as

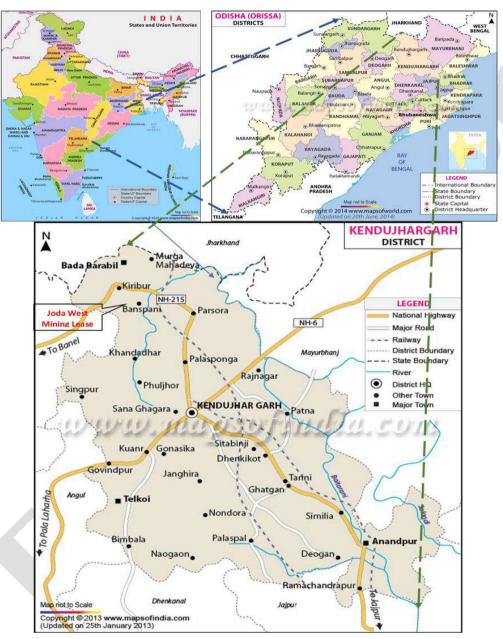


Fig.1 INDEX MAP

TARTECH LABS

The Joda West Iron & Manganese Mine is an opencast mechanised metal mine operational since 1930. The company has been producing the manganese ore from the mine by using shovel-dumper combinations which is used for the making of ferro-manganese at the Ferro Alloys Plant based at Joda



which is ultimately used by the company's steel operation for the making of stainless steel. The mine at present is operated for a production capacity of 180000 Tonnes Per Annum.

Table.1: Salient Features of Joda West Iron & Mn Mine

Project Location			
Village	Bichhakundi, Banspani, Kundurpani		
Tehsil	Barbil (Champua Sub Division)		
District	Kendujhar		
State	Odisha		
Latitude	21°58′00″ N to 22°02′00″ N		
Longitude	85°23'00" E to 85°26'00" E		
Elevation / Altitude	561 metres (1,841 feet) Approx.		
Nearest Town	Barbil		
Nearest City	Kendujhar Approx. 60 km		
Nearest Road	Joda- Kendujhar, NH-215 Approx. 2 km		
Nearest Highway	NH-215 Approx. 2 km		
Nearest Railway Station	BARABIL Railway Station Approx. 9 km		
Nearest Airport	Bhubaneswar Airport Approx. 285 km		

Mining Operation at Joda West Iron & Manganese Mine is governed by various environmental and social policies, applicable permits, legislations, rules, and regulations framed by the state (Odisha) and the central Government.

An Environmental Management Cell and Safety Task Force has been established for identifying various health and safety related obligations to be fulfilled by the organization. The team has been established with prime objectives of identifying the legal compliance imperatives having their genesis from different





national and international legislations and /or commitments to which Tata is obliged.

The mine management keeps on monitoring all such aspects (Health & Safety) as per the statute guidelines and assess the status of compliance along with identifying the scope for continual improvement."

The Whole-body vibration monitoring and exposure assessment is carried out keeping in consideration with the governing legislations framed by Directorate General of Mines Safety, etc. and deliberated during National Safety Conference.

Statutory References to Exposure Assessment Study:

- ❖ DGMS Tech Circular No.1 of 2018 (Standards and Safety Provisions of Diesel Equipment for using in belowground coal and Metalliferous mines) Ref. 1.4 (Vibration): The vibration exposure limits of the operator and passengers shall comply with the acceptance criteria specified in ISO 2631:2014 or its revised version or any internationally accepted standards.
- ❖ DGMS Tech Circular No.1 of 2018 (Standards and Safety Provisions of Diesel Equipment for using in belowground coal and Metalliferous mines) Ref. 1.1.9 (Vibration): The seat and it's suspension shall be so designed to reduce vibration transmitted to the operator to the lowest level that can be reasonably achieved.
- ❖ DGMS Standards and Safety Provisions of Diesel Equipment for using in belowground coal and Metalliferous mines (2018) Ref. 10.7 (Vibration): Non-destructive testing of all the load carrying members of the equipments, where safety of the persons is involved, and whole body vibrations study shall be conducted for operator comfort, once in every one year conforming to any internationally accepted standards, from any Govt. approved test house or NABL accredited laboratory subject to confirmation of its ability to conduct such tests.
- ❖ 11th National safety Council Recommendation (DGMS-Reference Clause-1.10.2) It is imperative for undertaking machine induced vibration and associated exposure for the dumper operators, Dozer operators, sorting yard workers, Drill Operators, and others as per their occupation.

As stated above, the company has engaged M/s Tecorfin Consultants Pvt. Ltd. for undertaking a detailed exposure assessment of such operators





engaged in various mining operations. M/s Tecorfin Consultant Pvt. Ltd (First Party) has collaborated with M/s Startech Laboratory Pvt. Ltd, having it's test house recognized by DGMS, by means of subletting provisions.

3.0 SCOPE & METHODOLOGY

The current assessment has been outsourced for a period of one year i.e for FY 2022-2023. The Assessment shall be carried out by Startech Laboratory Private Ltd. for all the four manganese leases of the company. The assessment shall be conducted in two phases at an interval of six months. Each phase of surveillance shall cover around 5 representative HEMM operators preferable selected from all the class of HEMMs deployed on site. The agency shall undertake testing of the operators for their exposure to Whole Body Vibration as well as Hand Arm Vibration induced due to operation of the Machines. The Sampling event for one person was ensured for at least 30 minutes each for WBV and HAV. The properly calibrated equipment was used and then data collected is analyzed as per ISO 2631:2014 standards for estimation of the following parameters:

- A) Daily vibration exposure, A (8) measured in terms of acceleration i.e m/s^2 ,
- B) Daily Vibration Dose Value (VDV) in m/s^{1.75},

METHODOLOGY: Vibration Exposure Monitoring: Despite modern technology, many workers who operate powered hand tools or other heavy machinery are subjected to the exposure of vibration during their normal working hours. This will lead to development of injuries and/or disorders related to vibration exposure.

Vibration exposure is of two types

- 1. Hand Arm Vibration
- 2. Whole Body Vibration

Hand-Arm Vibration is defined as the transmission of sinusoidal vibration from a tool to a worker's hand and arm. The amount of HAV is characterized by the acceleration level of the tool when grasped by the worker and in use. The vibration is typically measured on the handle of tool while in use to determine the acceleration levels transmitted to the worker.

Whole body vibration is caused by vibration transmitted through the seat or the feet by workplace machines and vehicles. Exposure to high levels of whole-body vibration may cause risks to health and safety and are reported to cause or aggravate back injuries. The risks are greatest when the vibration magnitudes

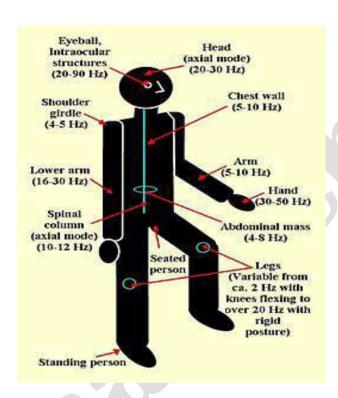




are high, the exposure durations long, frequent, and regular, and the vibration includes severe shocks or jolts.

3.1 Health effects

To understand why human beings are more sensitive to some frequencies than to others, it is useful to consider the human body as having sub-systems, where each sub-system has its own resonance frequency band and the interactions between sub-systems are influenced by the body's position, for example, standing or sitting.



Each part of the human body has its own resonance frequency; therefore, it reacts differently to different frequencies. Above 100 Hz, this model is not very useful, and other more complex analyses must be used. Some of the analyses show that the skull itself has a fundamental mode of vibration in the region of 300-400 Hz with resonances for higher modes around 600-900 Hz. Regular exposure to WBV may cause low back disorders such as disc herniations, may accelerate degenerative changes in the spine, and may lead to moisture loss, bucking, and slipping of the

lumbar discs. Recent studies have indicated that female workers who become pregnant and are exposed to WBV can possibly have added risk factors such as miscarriages and other gynecological disorders. A prolonged exposure to vibration can adversely affect the comfort, efficiency, safety, health and wellbeing of





employees. The fig below reflects impacts on the lower back, Vertebrates and the nervous system that surrounds it.



Other factors that can contribute to WBV injury:

The equipment mentioned above because of continuous vibration, produces high levels of vibration that can cause permanent damage to one's back. The risk of permanent damage also depends on a number of other factors. Finally, awkward postures and manual cargo handling in addition to WBV exposure tend to exacerbate low back pain misery. Some of typical patterns of induced form of vibration causing injury are as follows:

- Low frequency vibration caused by machinery.
- High frequency vibration from engine and transmission
- Shock from running into potholes or obstacles
- Poor ergonomic design of cabs, seats and controls
- Individual susceptibility general fitness, being overweight and choice of leisure pursuits

3.2 **SAMPLING SELECTION CRITERIA**:

The preliminary task of identifying sampling subject was ensured with the support of Mines Managers of individual mines. All the types of fleet were considered. An attempt was made to undertake at least 10% of the different class

of HEMMs. All the identified operators of the HEMMs were briefed on the procedure of sampling especially w.r.t correct posture of installation of sensors and proper care of the same during sampling. The following list of HEMMs were identified for the purpose of first phase of sampling and the same is





Table. 2: Sampling Selection Criteria

Sl.No	SELECTED	OPERATOR'S NAME	AGE	WORKPLACE
	HEMM/ HEMM ID	GATE PASS NO.	(Yrs)	
01	Dumper	Mr. Trilochan Prusty	30	GG Quary
	(OD09 W 1177)	GP-TSP/647865/1121		
02	Dumper	Mr. Shyam Sundar	39	GG Quary
	(OD09 W 1177)	Karua		
		GP-TSP/554376/0821		
03	Dozer	Mr. Shrihari Mahanta	43	GG Quary
	(BD 85)	GP-TSP/818598/0122		
04	Loader	Mr. Tapas Kumar Lohar	23	GG Quary
	(OD09 G 8571)	GP-TSP/725318/1221		
05	Driller (CD 450)	Mr. Kishore <u>Ch.</u>	28	GG Quary
		Mahakud		
		GP-TSP/650365/1121		

All the above mentioned HEMM operators were assessed for their exposure to the machine induced vibrations and shocks for both HAV as well as WBV.

The vibration monitoring is done to assess the operator's exposure vibration hazard to which they are exposed during their operational activity. The effect of exposure sometimes is reflected in a later stage adding owes to their comfort and efficiency. This monitoring would help TATA Steel in assessing the present exposure level and accordingly identify areas for corrective actions. The emphasis was laid upon all types of activities such as OB Transportation, Ore Loading, Face Cutting, Ripping/Dozing, etc.

The assessment was carried out by forming a team of experts from Startech Laboratory Pvt. Ltd. in coordination with the Shift in Charge(s) and Sr. Manager Environment & Mines Manager.

Sampling Team: Mr. Y. Raghavendra Chary & Mr. G. Naveen from Startech Lab Pvt. Ltd. were engaged for sampling services on site.

4.0 INSTRUMENTATION:

The HAVPro is a compact, lightweight, fully integrated 3-channel instrument for obtaining tri-axial vibration measurements. This monitor is the



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ideal screening tool for quickly and simply determining the presence and magnitude of hazardous hand-arm or whole-body vibration levels. Time history data also allows insight into exposure variations over time.

The HAVPro conforms to the requirements of the latest human vibration measurement standards including the new EU Vibration Directive 2002/44/EC dated June 2002, ISO 5349-2001, ISO 2631, ISO 8041 Type 1, ANSI S3.18, ANSI S 3.34, and ACGIH 2005 WBV & HAV Threshold Limit Values.

HAVPro Whole-Body Vibration Kit - Includes 072-001 HAVPro Personal Human Vibration Monitor, 072-011 3-Axis Seat Pad Accelerometer and 072-007 Sensor Cable.

Instrument : Vibration Monitor

Make : Quest Technologies, Inc.

Model : HAVPro, Quest Technologies, Inc.

Serial no : 07114, 07123 & 06011

5.0 TECHNICAL SPECIFICATIONS:

5.1 Standard Sensors

Whole Body Sensor: Part No. 072-011 voltage mode tri-axial seat pad accelerometer, 100mV/g sensitivity

W-B RMS Range: 0.001 m/s2 to 500 m/s2, dependent upon gain setting W-B Peak Range: 0.2 m/s2 to 700 m/s2, dependent upon gain setting

5.2 **Measurements:**

Whole body Vibration: Arms, A_{min} , A_{max} , A_{eq} , A_{mp} , PEAK, CF_{mp} , CF, VDV, Time History

Dynamic Range: 60dB

Frequency Range: 0.5 - 3000 Hz +/- 5% 0.3 - 5000 Hz +/- 10%

Sampling Rate: 14,400 HzF FREQUENCY WEIGHTINGS

5.3 **Frequency Weighting**: *Whole-Body*: Wb, Wc, Wd, We, Wg, Wj, Wk, WB

MEMORY STORAGE: Setups: Up to 10 User-defined setup files, Data Files: Up to 100 data files, Time History: Interval lengths of 1, 2, 5, 10, 20, 30 or 60

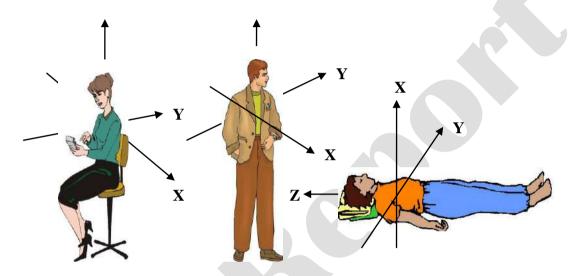




seconds. Up to 120 intervals per data file with Arms and PEAK/interval. Up to 240 intervals per data file with Arms or PEAK/interval, Size: 512 KB

5.4 **Monitoring Methodology**:

- Vibration is measured in tri-axial dimension.
- At a time, vibration is possible in more than one direction,
- Vibration is produced in total of three axes of potential movement



X-Axis Back to Chest Y-Axis Right to Left Z-Axis Foot to Head

6.0 **CALIBRATION**:

Calibrated on : 03rd December 2021

Calibration Due Date : 02nd December 2022

Copies of calibration certificates are attached as Annexures to this Report.

7.0 ACCEPTANCE CRITERIA:

As per ACGIH (Booklet 2010 TLVs and BEIs)

Monitoring and assessment methodology adapted as per ISO 2631

Table. 3: Applicable Standards for Vibration Exposure

8-Hr Daily Exposure Limits	Action Value	Limit Value
Hand-Arm	2.5 m/s2	5 m/s2





8-Hr Daily Exposure Limits	Action Value	Limit Value
Whole-Body	0.5 m/s2	1.15 m/s2
Whole-Body		
(vibration	9.1 m/s1.75	21 m/s1.75
dose)		

9.0 **DEFINITIONS**:

EAV (Exposure Action values): A value for either a workers daily vibration exposure, A(8) of $0.5 \, \text{m/s}^2$, or a workers daily VDV of $9.1 \, \text{m/s} 1.75$, above which the risks from vibration exposure must be controlled.

ELV (Exposure Limit Value): A value for either a workers daily vibration exposure, A(8) of 1.15m/s^2 , or a workers daily VDV of 21 m/s1.75, above which workers should not be exposed.

VDV: Vibration Dose Value. VDV has units of m/s ^{1.75}.

CF: Crest Factor ratio of peak to rms should 6 or less

Aeq: Is the integration time that is from Run to Reset

Amp: Peak level of the instantaneous weighted acceleration

A(8): Daily vibration exposure, expressed in (m/s^2)

BASIS OF INTERPRETATION:

For those result whose crest value are above 6, Vibration Dose Values needs to be considered. Exposure Action Limit Start at 9.1m/s1.75 and Exposure limit Value is 21m/s1.75 for Vibration Dose Value.

10.0 **RESULTS**: After sampling is completed, analysis of the data collected is done using HAVPro Software for estimating the parameters as defined in the sec.9.0. The summary of the readings is summarized as follows:

Table. 4: Whole Body Vibration Results:

SAMPLE ID	Location	Operator Name	Activity	Axis	Aeq m/s²	A _{min} m/s ²	A _{max} m/s ²	A ₍₈₎ m/s ² EAV-0.5	VDV m/s ^{1.75}
		Mr.	aı ı	X	0.7187	0.0093	3.9569	0.1807	29.0674
				Y	0.6475	0.0078	3.5652	0.1628	26.2609
1	Shovel -6	Trilochan Prusty	Shovel Operator	Z	0.3507	0.0199	1.9282	0.0882	14.2030
		Trusty		SUM	1.3990	0.0263	7.6816	0.3518	46.3371





SAMPLE ID	Location	Operator Name	Activity	Axis	Aeq m/s²	A _{min} m/s ²	A _{max} m/s ²	A ₍₈₎ m/s ² EAV-0.5	VDV m/s ^{1.75}
2	Dumper	Mr. Shyam Sundar Karua	Dumper Operator	X	0.0628	0.0082	0.3598	0.0168	2.2167
				Y	0.0619	0.0064	0.3560	0.0165	2.1929
2	(OD09 W 1177)			Z	0.0336	0.0137	0.1657	0.0090	1.0233
				SUM	0.1279	0.0206	0.7275	0.0342	3.6764
	Dozer (BD 85)	Mr. Shrihari Mahanta	Dozer Operator	X	0.1197	0.0080	0.6564	0.0302	3.9946
3				Y	0.1187	0.0063	0.6528	0.0299	3.9784
3				Z	0.0587	0.0144	0.3067	0.0148	1.8716
				SUM	0.2432	0.0203	1.3324	0.0613	6.6476
	Loader(OD09 G 8571)	Mr. Tapas Kumar Lohar	Loader Operator	X	0.0666	0.0081	0.3662	0.0169	2.2439
4				Y	0.0656	0.0064	0.3613	0.0167	2.2137
4				Z	0.0340	0.0139	0.1688	0.0086	1.0372
				SUM	0.1352	0.0203	0.7394	0.0344	3.7167
5	Driller (CD 450)	Mr. Kishore Chadra Mahakud	Driller Operator	X	0.0088	0.0077	0.0139	0.0023	0.0877
				Y	0.0070	0.0059	0.0127	0.0018	0.0788
				Z	0.0143	0.0137	0.0159	0.0037	0.1272
				SUM	0.0213	0.0193	0.0305	0.0055	0.1589

Table. 5: Hand Arm Vibration Results

Case No.	Location	Operator Name	Activity	Axis	Aeq m/s²	Amin m/s²	Amax m/s²	A(8) m/s ² EAV-
				X	0.0594	0.0420	0.1154	2.5m/s ² 0.0155
		Mr. Trilochan Prusty	Shovel Operator	Y	0.0453	0.0285	0.0919	0.0118
1	Shovel -6			Z	0.0615	0.0383	0.1284	0.0160
				SUM	0.1213	0.0840	0.2327	0.0316
				X	0.1751	0.0399	0.4103	0.0478
2	Dumper (ODO) W	Mr. Shyam	Dumper	Y	0.1707	0.0380	0.3526	0.0465
2	(OD09 W 1177)	Sundar Karua	Operator	Z	0.1735	0.0311	0.3450	0.0473
				SUM	0.3838	0.0933	0.8151	0.1047
3	Dozer (BD 85)	Mr. Shrihari Mahanta	Dozer Operator	X	0.1159	0.0438	0.1749	0.0292
				Y	0.1277	0.0349	0.1894	0.0322
				Z	0.1418	0.0230	0.2493	0.0358



								TATA
Case No.	Location	Operator Name	Activity	Axis	Aeq m/s²	Amin m/s²	Amax m/s²	$A(8)$ m/s^2 $EAV-$ $2.5m/s^2$
				SUM	0.2800	0.0828	0.4204	0.0707
				X	0.0950	0.0415	0.1735	0.0241
4	Loader(OD09	Mr. Tapas	Loader	Y	0.0938	0.0351	0.1907	0.0238
4	G 8571)	Kumar Lohar	Operator	Z	0.0786	0.0436	0.1397	0.0199
				SUM	0.2027	0.0877	0.3773	0.0514
				X	0.0651	0.0138	0.1465	0.0169
5	Driller (CD	Mr. Kishore	Driller	Y	0.0559	0.0134	0.1297	0.0145
5	450)	Chadra Mahakud	Operator	Z	0.0468	0.0108	0.0965	0.0121
				SUM	0.1289	0.0295	0.2901	0.0335

11.0 OBSERVATIONS:

11.1 CASE 1: SAMPLE ID-01

The subject sample was tested for exposure assessment to both HAV & WBV. Mr. Trilochan Prusty, operator of Shovel-06 engaged in excavation work at Gangeiguda Quarry at Joda West Iron & Mn Mine was tested for estimation of Daily Exposure Value.

A) Whole Body Vibration:

From the Result it is observed that \mathbf{D} aily \mathbf{V} ibration for Whole Body vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $0.5 \, \text{m/s}^2$. With the current level of exposure, the operator may be allowed to work for a full shift which won't attract any occupational contraventions.

B) Hand Arm Vibration:

From the Result it is observed that daily vibration for Hand Arm Vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. 2.5m/s2. Here an Operator can work for a full shift at the same exposure level.

Conclusion: Based on the findings of both HAV & WBV, it can be concluded that the status of ergonomics of Shovel-06 (subject HEMM) is safe in this regard.

11.2 **CASE 2 (SAMPLE ID-02)**:

The subject sample was tested for exposure assessment to both HAV & WBV. Mr. Shyamsundar Karua, operator of Dumper (OD09W1177) engaged in





transportation of operations at GG Quarry of Joda West Iron & Mn Mine was tested for estimation of Daily Exposure Value.

A) Whole Body Vibration:

From the Result it has been observed that daily vibration for Whole body vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. 0.5m/s2, here an Operator can work for a full shift at the same exposure level without any possibility of any occupational contraventions

B) Hand Arm Vibration:

From the Result it has been observed that daily vibration for Hand Arm Vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $2.5 \,\mathrm{m/s^2}$. Here an Operator can work for a full shift at the same exposure level.

Conclusion: Based on the findings of both HAV & WBV, it can be concluded that the status of ergonomics of Dumper- OD09W1177 (subject HEMM) is safe in this regard.

CASE 3 (SAMPLE ID-03):

The subject sample was tested for exposure assessment to both HAV & WBV. Mr. Shrihari Mahanta Dozer Operator (BD-85) engaged in Dozing & Ripping operations at Joda West Iron & Mn Mine was tested for estimation of Daily Exposure Value.

A) Whole Body Vibration:

From the result, it has been observed that daily vibration for Whole body vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $0.5 \, \text{m/s}^2$ Here an Operator can work for a full shift at the same exposure level.

B) Hand Arm Vibration:

From the Result it has been observed that daily vibration for Hand Arm Vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $2.5 \,\mathrm{m/s^2}$. Here an Operator can work for a full shift at the same exposure level.

Conclusion: Based on the findings of both HAV & WBV, it can be concluded that the status of ergonomics of the Dozer (subject HEMM) is safe in this regard.

11.3 **CASE 4 (SAMPLE ID-04)**:

The subject sample was tested for exposure assessment to both HAV & WBV. Mr. Tapas Kumar Lohar, operator of Front-End Loader (OD09G8571) engaged in





loading of ore material at Joda West Iron & Mn Mine was tested for estimation of Daily Exposure Value.

A) Whole Body Vibration:

From the result, it has been observed that daily vibration for Whole body vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $0.5 \,\mathrm{m/s^2}$, here an operator can work for a full shift at the same exposure level.

B) Hand Arm Vibration:

From the Result it has been observed that daily vibration for Hand Arm Vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $2.5 \, \text{m/s}^2$. Here an Operator can work for a full shift at the same exposure level.

Conclusion: Based on the findings of both HAV & WBV, it can be concluded that the status of ergonomics of the loader (subject HEMM) is safe in this regard.

11.4 **CASE 5 (SAMPLE ID-05):**

The subject sample was tested for exposure assessment to both HAV & WBV. Mr. Kishore Chandra Mahakud, Drill Operator (CD450) engaged in drilling operations at Joda West Iron & Mn Mine was tested for estimation of Daily Exposure Value.

A) Whole Body Vibration:

From the result, it has been observed that daily vibration for Whole body vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $0.5 \, \text{m/s}^2$, here an operator can work for a full shift at the same exposure level.

B) Hand Arm Vibration:

From the Result it has been observed that daily vibration for Hand Arm Vibration exposure in X, Y & Z axis are within the Exposure Action value of A(8) i.e. $2.5 \,\mathrm{m/s^2}$. Here an Operator can work for a full shift at the same exposure level.

Conclusion: Based on the findings of both HAV & WBV, it can be concluded that the status of ergonomics of the Drill (subject HEMM) is safe in this regard.

12.0 **RECOMMENDATION FOR IMPROVEMENT:** From the detailed analysis of triaxial vibration exposure of all the five samples it is inferred that, the 8-hr (daily exposure value) for Hand Arm Vibration as well as Whole Body Vibration for all the five tested samples are indicating of conformance to the applicable ergonomic standard and DGMS prescribed Exposure Action Value





of 2.5m/s² and 0.5m/s² respectively. However, Daily Vibration Dose Value (Whole Body Vibration) as computed for all the samples are as follows:

Sample ID 01: VDV is observed to be $46.3371 \text{ m/s}^{1.75}$, which is exceeding both the exposure action value of $9.1 \text{ m/s}^{1.75}$ and Exposure limit value of $21.0 \text{ m/s}^{1.75}$. Since VDV is indicative of 24-hr exposure duration thus won't be of much consideration for the current assessment. This indicates that in no case, a person should be allowed to operate this machine beyond 8-hr duration. This being a special case wherein all the axes are observed to have dominant vibration exposure levels thus a detailed reassessment of the subject HEMM is a must for the mine management to plan for a proper ergonomic design.

- Sample ID 02: VDV is observed to be $3.6764 \text{ m/s}^{1.75}$, which is well within the Exposure Action Value of $9.1 \text{ m/s}^{1.75}$.
- > Sample ID 03: VDV is observed to be 6.6476 m/s^{1.75}, which is well within the Exposure Action Value of 9.1 m/s1.75.
- Sample ID 04: VDV is observed to be $3.7167 \text{ m/s}^{1.75}$, which is well within the Exposure Action Value of $9.1 \text{ m/s}^{1.75}$.
- ➤ Sample ID 05: VDV is observed to be 0.1589 m/s^{1.75}, which much above than that of prescribed Exposure Action Value of 9.1 m/s1.75.
- ➤ Based on the VDV and A(8) values the samples are indicating of conformance to the prescribed standards i.e Exposure Action value and Exposure Limit Values however in case of Sample ID 01 Mine management needs to focus on the reassessment of HEMM for a detailed ergonomic study.

CERTIFIED BY

Particul ar s	Monitored By	Authorized By		
Name	G. Naveen	Y. Raghavendra Chary		
Signature	G. Rain	Y.Pan		
Date	01.09.2022	01.09.2022		

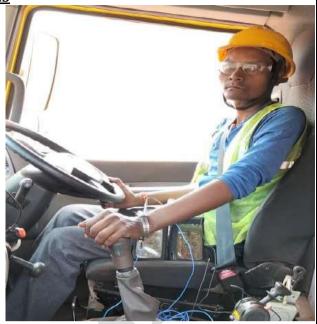




PHOTOGRAPHS



SAMPLE-01 (Mr. Trilochan Prusty)



SAMPLE-02 (Mr. Shyam Sundar Karua)



SAMPLE-03 (Mr. Shrihari Mahanta)



SAMPLE-04 (Mr. Tapas Kumar Lohar)



SAMPLE-05 (Mr. Kishore Chandra Mahakud)



April 2022



ACKNOWLEDGEMENT

This "Vibration Monitoring" report is prepared by Startech Labs Pvt. Limited, Hyderabad on behalf of M/s Tecorfin Consultants Private Limited to be submitted before Joda West Iron & Manganese Mine of M/s. Tata Steel Ltd. M/s Startech Labs has conducted a detailed assessment of occupational exposure of HEMM operators of the mine to Vibration & Shocks. The Test House expresses its gratitude towards the Management of Tata Steel Ltd. for awarding this prestigious study to Startech Labs for their trust, hospitality and courtesy bestowed on our on-site project personnel during his project stay.

Startech Lab is indebted to Mr. Sabyasachy Mishra, Head Mine & Production Planning and Mr. Niranjan Kumar, Mines Manager (Joda West) and Mr. Sibashankar Sahu, Shift Incharge of Joda West Iron & Mn Mine for supporting us in every stage of the study and extending their cooperation and sparing their valuable time to provide us necessary guidance for the smooth execution and completion of this study.

Startech Lab is indebted to Mr. Arvind Dubey (proprietor of M/s Tecorfin Consultants Private Limited) for believing in us and making such a wonderful collaboration with us for this study.

Startech Lab is also grateful to all the employees of Tata Steel Ltd. (Joda West Iron & Manganese Mine) who have directly and indirectly extended their help and co-operation in various ways to complete this study successfully.

We thank and highly appreciate the concern of the Management for carrying out this study that would guide them to directly improve the working conditions and thus, generate healthy atmosphere at the workplace.

Mr. Y. Raghavendra Chary Assistant Manager, Industrial Hygiene Startech Labs Pvt. Ltd.





Certificate of Calibration

Calibration of HAVPro Monitor: 3rd Dec 2021

Valid Till: 1 Year from the Date of Issuance



An ISO 9001 Registered Company

Certificate of Calibration

Certificate Number: 356489659HAV06011

Model:

HAVPro Vibration Monitor

Date of Issue:

03-December -2021

S/N:

06011

Instrument ID: ST-EQ-IH-033

On this day of manufacture and calibration, TSI certificate that the above listed product meets or exceeds the performance requirements of the following acoustic standard(s)

Test Conditions:

Temperature:

18-25°C

Humidity:

20-80% R.H.

Barometric Pressure:

950-1050 mBar

Test Procedure:

S072-001

Subassemblies:

H-A Pro - PCB 356A67 S/N: 66819

Reference Standard(s)

Measurement Uncertainty:

Device

Uncertainty estimated at 95% Confidence level (k=2)

Cal Due Date

Kistler 8076K

+/- 1.8 % Vibration

2-March-2022

Fluke 45

+/- 1.4 % AC Voltage, +/-0.1% DC Voltage

2-March-2022

Calibrated By:

In order to maintain best instrument performance over time and in the event of inspection, audit or litigation, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration item to drift before the recommended interval has expired. See your manual for more information.

> All equipment used in the test is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced except in its entirety, without the written approval of TSIS, Inc.

098-659 Rev F





An ISO 9001 Registered Company

EU Declaration of Conformity

Certificate Number: 356489659HAV06011

Product Line: Vibration Monitor

Model: HAVPro

s/N: 06011

Directive Covered:

- > EMC/ Council Directive 2014BUeU on Electromagnetic Compatibility
- > Safety / Council Directive 20141351EU on Low Voltage Equipment Safety
- > RoHS / Council Directive 201116518U on the restriction and use of certain hazardous substances
- > WEEE / Council Directive 201211918U on Waste Electrical and Electronic Equipment

The basis on which conformity is being declared:

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use - EMC requirements

Group 1, Class B Equipment (emissions)

EN 61326-1 (2005) Electrical equipment for measurement control and laboratory use - EMG requirements Industrial location immunity

IEC 01010-1 (2010) Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General Requirements

CFR: 47 (2005) Code of Federal Regulations: Part 1.5 Subpart B - Radio Frequency Devices - Unintentional Radiators

ANSI S1.40-2006 (R2011) - Specifications and Verification Procedures for Sound Calibrators

IEC 60942:2003 / EN60942-2003 Electroacoustic Sound Calibrators / Class I

EN 50581 (2012) Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Note: This certification applies to all standard options and accessories supplied with the instrument.

At the end of its life cycle, this product, and any internal lithium cell, must be sent to a WEEE recycling center, and is marked accordingly.

The technical construction file required by this directive is maintained in Oconomowoc, WI USA

Tom Jacobson - Vice Present - Engineering, TSI, Inc





Annexures-1



Registered Company

Certificate of Calibration

Certificate Number: 356489658HAV07123

Model:

HAVPro Vibration Monitor

Date of Issue

03-December -2021

S/N:

07123

Instrument ID: ST-EO-IH-032

On this day of manufacture and calibration, TSI certificate that the above listed product meets or exceeds the performance requirements of the following acoustic standard(s)

Test Conditions:

Temperature:

18-25°C

Humidity:

20-80% R.H.

Barometric Pressure:

950-1050 mBar

Test Procedure:

S072-001

Subassemblies:

H-A Pro - PCB 356A67 S/N: 66819

Reference Standard(s)

Measurement Uncertainty:

Device

Uncertainty estimated at 95% Confidence level (k=2)

Cal Due Date

Kistler 8076K

+/- 1.8 % Vibration

2-March-2022

Fluke 45

+/- 1.4 % AC Voltage, +/-0.1% DC Voltage

2-March-2022

Jaket Pompe - Assembler

in order to maintain best instrument performance over time and in the event of inspection, audit or litigation, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration item to drift before the recommended interval has expired. See your manual for more information.

> All equipment used in the test is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced except in its entirety, without the written approval of TSIS, Inc.

098-659 Rev F





Annexures-1



An ISO 9001 Registered Company

EU Declaration of Conformity

Certificate Number: 356489658HAV07123

Product Line: Vibration Monitor

Model: HAVPro

S/N: 07123

Directive Covered:

- > EMC/ Council Directive 2014@UeU on Electromagnetic Compatibility
- > Safety / Council Directive 20141351EU on Low Voltage Equipment Safety
- > RoHS / Council Directive 201116518U on the restriction and use of certain hazardous substances
- > WEEE / Council Directive 201211918U on Waste Electrical and Electronic Equipment

The basis on which conformity is being declared:

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use - EMC requirements Group 1, Class B Equipment (emissions)

EN 61326-1 (2005) Electrical equipment for measurement control and laboratory use - EMG requirements industrial location immunity

IEC 01010-1 (2010) Safety requirements for electrical equipment for measurement, control and laboratory use
Part 1: General Requirements

CFR: 47 (2005) Code of Federal Regulations: Part 15 Subpart B - Radio Frequency Devices - Unintentional Radiators

ANSI S1.40-2006 (R2011) - Specifications and Verification Procedures for Sound Calibrators

IEC 60942:2003 / EN60942-2003 Electroacoustic Sound Calibrators / Class I

EN 50581 (2012) Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Note: This certification applies to all standard options and accessories supplied with the instrument.

At the end of its life cycle, this product, and any internal lithium cell, must be sent to a WEEE recycling center, and is marked accordingly.

The technical construction file required by this directive is maintained in Oconomowoc, WI USA

Tom Jacobson - Vice Present - Engineering TSL Inc.





Annexure-2

RAW DATA SHEET (SYSTEM GENERATED DATA SHEET)

List of Enclosures:

Sl.No	Sample ID	Name of Worker	Report Title
01	SAMPLE ID-01	Mr. Trilochan Prusty (Shovel Operator)	Whole Body Vibration Hand Arm Vibration
02	SAMPLE ID-02	Mr. Shyamsundar Karua, Dumper Operator	Whole Body Vibration Hand Arm Vibration
03	SAMPLE ID-03	Mr. Shrihari Mahanta Dozer Operator	Whole Body Vibration Hand Arm Vibration
04	SAMPLE ID-04	Mr. Tapas Ku Lohar, Loader Operator	Whole Body Vibration Hand Arm Vibration
05	SAMPLE ID-05	Mr. Kishore Ch. Mahakud, Drill Operator	Whole Body Vibration Hand Arm Vibration



Whole Body Vibration Study Report

General Data Panel

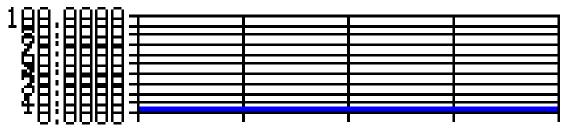
Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	Value 20dB Wd 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wd 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wk 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted WholeBody 1 s m/s None None
Calibration Level VDV s^2	X	1.000000e+000 29.067360 m/s^1.75	ExposureReference Amin	X	2.8 m/s 0.009316 m/
Amax s^2	Χ	3.956912 m/s^2	Aeq	Χ	0.718688 m/
VDV s^2	Υ	26.260887 m/s^1.75	Amin	Υ	0.007791 m/
Amax s^2	Υ	3.565203 m/s^2	Aeq	Υ	0.647543 m/
VDV s^2	Z	14.203012 m/s^1.75	Amin	Z	0.019910 m/
Amax	Z	1.928215 m/s^2	Aeq	Z	0.350693 m/
s^2 VDV s^2	Sum	54.995818 m/s^1.75	Amin	Sum	0.026349 m/
Amax s^2	Sum	7.681597 m/s^2	Aeq	Sum	1.395197 m/

Information Panel

Location Name Comments

Shovel (V-19) Mr. Trilochan Prusty Operator Friday, April 29, 2022 10:11:46 Friday, April 29, 2022 10:45:16 Start Time Stop Time





10:12:540:20:390:28:240:36:090:43:54 4/29/202429/202429/202429/202429/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:33:30

Measurement	X	Υ	Z	<u>Sum</u>	Units
VDV	2 9.0674	2 6.2609	1 4.2030	46.3371*	<u>Units</u> m/s^1.75
Amin	0.0093	0.0078	0.0199		m/s²
Amax	3.9569	3.5652	1.9282		m/s²
Aeq	0.7187	0.6475	0.3507	1.3990*	m/s²
A(1)	0.5111	0.4605	0.2494	0.9950*	m/s²
A(2)	0.3614	0.3257	0.1764	0.7036*	m/s²
A(4)	0.2556	0.2303	0.1247	0.4975*	m/s²
A(8)	0.1807	0.1628	0.0882	0.3518*	m/s²
CFmp					
K Factor	1.4	1.4	1.0		
Max RMS	1.0062*				m/s²
A(8), Max RMS	0.3542*			0.3518*	m/s²
Max VDV	40.6943*				m/s^1.75

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours) Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	Units
EAV	0 1:58*	0 2:26*	<u>1</u> 6:15*	01:01*	hh:mm
ELV	10:27*	12:52*	>24*	05:24*	hh:mm
A(8)	1.0062*	0.9066*	0.3507*	1.3990*	m/s²

11----

VDV Calculated Values
Action Value Criterion 9.10 m/sec^1.75
Limit Value Criterion 21.00 m/sec^1.75
Exposure Time 08:00 hh:mm (8 hours) (8 hours)

	X	Υ	Z	Sum	Units
EAV	0 0:00*	0 0:00*	0 0:05*	00:00*	hh:mm
ELV	00:02*	00:03*	02:25*	00:01*	hh:mm
eVDV	13.1074	11.8099	6.3959	25.5149*	m/s^1.75

Hand Arm Vibration Study Report

5/3/2022

Information Panel

Location Shovel-06

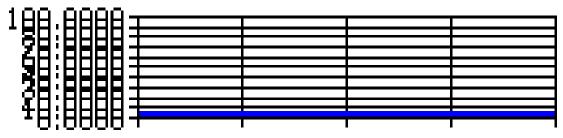
Name Mr. Trilochan Prusty

Comments Operator Friday, April 29, 2022 10:11:46 Stop Time Friday, April 29, 2022 10:45:41

General Data Panel

Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	Value 20dB Wh 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wh 1.000000e
Gain	Z	20dB	SumFactor	Z Z	1.00
Weighting	Z Z 7	Wh	Output	Z	AC Weighted
Sensitivity	Z	1.000000e+002	Mode StoreTime		HandArm 1 s
Averaging Accelerometer		60s ICP	DisplayUnits		m/s
DBReference		1e^-6	Integration		None
Auto Save		True	SecondHistory		None
PrintLoggingOn		False	SetupFileName		
Calibration Level		1.000000e+000	ExposureReference		2.8 m/s
Amin	X	0.041978 m/s^2	Amax	Χ	0.115404 m/
s^2 Aeq	Χ	0.059366 m/s^2	Amp	X	2.510762 m/
s^2	Λ	0.039300 11/3 2	Amp	^	2.510702111/
Amin	Υ	0.028463 m/s^2	Amax	Υ	0.091928 m/
s^2					
Aeq	Υ	0.045284 m/s^2	Amp	Υ	1.804454 m/
s^2	7	0.000000 /- 40	Δ	7	0.400.404 /
Amin s^2	Z	0.038338 m/s^2	Amax	Z	0.128431 m/
Aeq	Z	0.061493 m/s^2	Amp	Z	2.198804 m/
s^2	_	0.00140011//0 2	7 tinp	_	2.10000 4 111/
Amin	Sum	0.083956 m/s^2	Amax	Sum	0.232691 m/
s^2					
Aeq	Sum	0.121168 m/s^2	Amp	Sum	4.291739 m/
s^2					





10:12:540:20:390:28:240:36:090:43:54 4/29/2024/29/2024/29/2024/29/2024/29/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:33:55

Measurement	<u>X</u>	Υ	Z	<u>Sum</u>	Units m/s²
Amin	$\overline{0}$.0420	<u>0</u> .0285	<u>0</u> .0383		m/s ²
Amax	0.1154	0.0919	0.1284		m/s²
Aeq	0.0594	0.0453	0.0615	0.1213*	m/s²
Amp	2.5108	1.8045	2.1988		m/s²
A(1)	0.0437	0.0334	0.0453	0.0894*	m/s²
A(2)	0.0309	0.0236	0.0320	0.0632*	m/s²
A(4)	0.0219	0.0167	0.0227	0.0447*	m/s²
A(8)	0.0155	0.0118	0.0160	0.0316*	m/s²
CÈmp	42.2929	39.8472	35.7571		
K Factor	1.4	1.4	1.0		
Max RMS	0.0831*				m/s²
A(8), Max RMS	0.0303*			0.0316*	m/s²

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours) Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	> 24*	- 24*	> 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.0831*	0.0634*	0.0615*	0.1213*	m/s²

Whole Body Vibration Study Report 5/3/2022

Information Panel

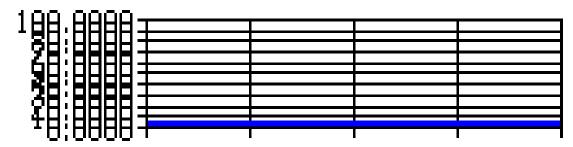
Dumper (OD09 W 1177) Mr. Shyam Sundar Karua Operator Location Name Comments

Friday, April 29, 2022 10:50:59 Friday, April 29, 2022 11:25:16 Start Time Stop Time

General Data Panel

Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X Y Y	Value 20dB Wd 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y	Value 1.40 AC Weighted 20dB Wd 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wk 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted WholeBody 1 s m/s None None
Calibration Level VDV s^2	X	1.000000e+000 2.216737 m/s^1.75	ExposureReference Amin	X	2.8 m/s 0.008225 m/
Amax s^2	X	0.359831 m/s^2	Aeq	Χ	0.062754 m/
Amp s^1.75	X	2.417369 m/s^2	VDV	Υ	2.192858 m/
Amin	Υ	0.006411 m/s^2	Amax	Υ	0.355955 m/
s^2 Aeq	Υ	0.061911 m/s^2	Amp	Υ	2.391329 m/
s^2 VDV	Z	1.023282 m/s^1.75	Amin	Z	0.013739 m/
s^2 Amax	Z	0.165655 m/s^2	Aeq	Z	0.033620 m/
s^2 Amp	Z	1.135709 m/s^2	VDV	Sum	4.481751 m/
s^1.75 Amin	Sum	0.020567 m/s^2	Amax	Sum	0.727498 m/
s^2 Aeq s^2	Sum	0.127910 m/s^2	Amp	Sum	4.887384 m/





10:50:590:59:141:07:291:15:441:23:59 4/29/2024/29/2024/29/2024/29/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:34:17

Measurement	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
VDV	2.2167	2 .1929	1.0233	3.6764*	m/s^1.75
Amin	0.0082	0.0064	0.0137		m/s²
Amax	0.3598	0.3560	0.1657		m/s²
Aeq	0.0628	0.0619	0.0336	0.1279*	m/s²
Amp	2.4174	2.3913	1.1357		m/s²
A(1)	0.0474	0.0468	0.0254	0.0967*	m/s²
A(2)	0.0335	0.0331	0.0180	0.0684*	m/s²
A(4)	0.0237	0.0234	0.0127	0.0483*	m/s²
A(8)	0.0168	0.0165	0.0090	0.0342*	m/s²
CFmp	38.5211	38.6256	33.7806		
K Factor	1.4	1.4	1.0		
Max RMS	0.0879*				m/s²
A(8), Max RMS	0.0329*			0.0342*	m/s²
Max VDV	3.1034*				m/s^1.75

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours)

Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	- 24*	- 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.0879*	0.0867*	0.0336*	0.1279*	m/s²

VDV Calculated Values
Action Value Criterion 9.10 m/sec^1.75
Limit Value Criterion 21.00 m/sec^1.75
Exposure Time 08:00 hh:mm (8 hours) (8 hours)

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	- 24*	- 24*	21:26*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
eVDV	1.1445	1.1291	0.6132	2.3329*	m/s^1.75

Hand Arm Vibration Study Report

5/3/2022

Information Panel

Location Dumper (OD09 W 1177)
Name Mr. Shyam Sundar Karua

Comments Operator

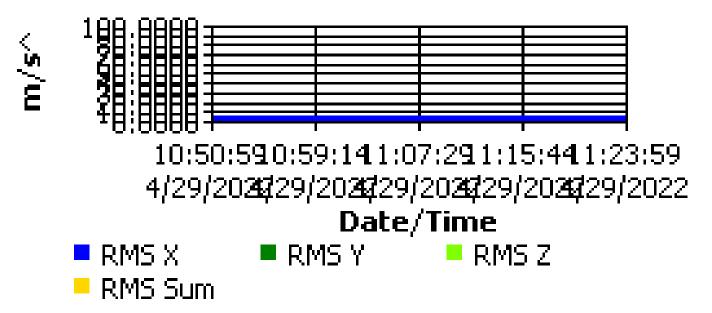
 Start Time
 Friday, April 29, 2022 10:50:25

 Stop Time
 Friday, April 29, 2022 11:25:16

General Data Panel

ted
)
ted
m/
r

Logged Data Chart



Exposure Calculator (* measurements use k factor)

Run Time 00:34:51

<u>Measurement</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u> m/s²
Amin	$\overline{0}$.0399	$\overline{0}$.0380	$\overline{0}.0311$		m/s ²
Amax	0.4103	0.3526	0.3450		m/s²
Aeg	0.1751	0.1707	0.1735	0.3838*	m/s²
A(1)	0.1351	0.1316	0.1338	0.2960*	m/s²
A(2)	0.0955	0.0931	0.0946	0.2093*	m/s²
A(2) A(4)	0.0675	0.0658	0.0669	0.1480*	m/s²
A(8)	0.0478	0.0465	0.0473	0.1047*	m/s²
CFmp					
K Factor	1.4	1.4	1.0		
Max RMS	0.2452*				m/s²
A(8), Max RMS	0.0936*			0.1047*	m/s²

RMS Calculated Values
Action Value Criterion 0.50 m/s² (8 hours)
Limit Value Criterion 1.15 m/s² (8 hours)
Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	Units
EAV	- 24*	>24*	- 24*	13:34*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.2452*	0.2389*	0.1735*	0.3838*	m/s²

Whole Body Vibration Study Report 5/3/2022

Information Panel

Location

Dozer -01 Mr. Shrihari Mahanta Operator Name

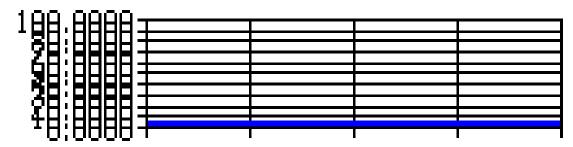
Comments

Friday, April 29, 2022 11:39:38 Friday, April 29, 2022 12:10:06 Start Time Stop Time

General Data Panel

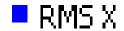
Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X Y Y	Value 20dB Wd 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wd 1.000000e
Gain	Z	20dB	SumFactor	Z Z	1.00
Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	Wk 1.000000e+002 60s ICP 1e^-6 True False	Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z	AC Weighted WholeBody 1 s m/s None None
Calibration Level		1.000000e+000	ExposureReference		2.8 m/s
VDV s^2	X	3.994588 m/s^1.75	Amin	X	0.008049 m/
Amax	X	0.656369 m/s^2	Aeq	X	0.119700 m/
s^2 Amp s^1.75	Χ	4.481751 m/s^2	VDV	Υ	3.978398 m/
Amin	Υ	0.006300 m/s^2	Amax	Υ	0.652824 m/
s^2 Aeq s^2	Υ	0.118732 m/s^2	Amp	Υ	4.518304 m/
VDV	Z	1.871632 m/s^1.75	Amin	Z	0.014426 m/
s^2 Amax s^2	Z	0.306705 m/s^2	Aeq	Z	0.058727 m/
Amp	Z	2.088548 m/s^2	VDV	Sum	8.109041 m/
s^1.75 Amin s^2	Sum	0.020291 m/s^2	Amax	Sum	1.332433 m/
Aeq s^2	Sum	0.242993 m/s^2	Amp	Sum	9.135010 m/

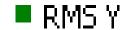




11:39:381:46:531:54:082:01:232:08:38 4/29/20**2**\$\frac{2}{2}\frac{2}\frac{2}\frac{2}{2}\f

Date/Time





RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:30:28

Measurement	<u>X</u>	Υ	Z	Sum	Units
VDV	3.9946	3 .9784	<u>1</u> .8716	6.6476*	m/s^1.75
Amin	0.0080	0.0063	0.0144		m/s²
Amax	0.6564	0.6528	0.3067		m/s²
Aeq	0.1197	0.1187	0.0587	0.2432*	m/s²
Amp .	4.4818	4.5183	2.0885		m/s²
A(1)	0.0853	0.0846	0.0418	0.1733*	m/s²
A(2)	0.0603	0.0598	0.0296	0.1226*	m/s²
A(2) A(4)	0.0426	0.0423	0.0209	0.0867*	m/s²
A(8)	0.0302	0.0299	0.0148	0.0613*	m/s²
CFmp	37.4414	38.0546	35.5640		
K Factor	1.4	1.4	1.0		
Max RMS	0.1676*				m/s²
A(8), Max RMS	0.0591*			0.0613*	m/s²
Max VDV	5.5924*				m/s^1.75

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours)

Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	> 24*	- 24*	- 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.1676*	0.1662*	0.0587*	0.2432*	m/s²

VDV Calculated Values
Action Value Criterion 9.10 m/sec^1.75
Limit Value Criterion 21.00 m/sec^1.75
Exposure Time 08:00 hh:mm (8 hours) (8 hours)

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	03:33*	0 3:37*	- 24*	01:46*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
eVDV	2.1831	2.1654	1.0711	4.4361*	m/s^1.75

Hand Arm Vibration Study Report 5/3/2022

Information Panel

Dozer-01 Location

Mr. Shrihari Mahanta Name

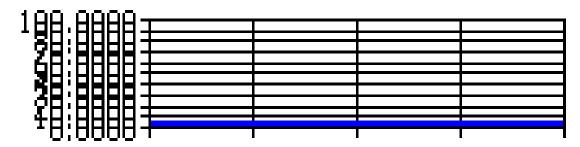
Comments Operator

Friday, April 29, 2022 11:39:57 Friday, April 29, 2022 12:10:32 Start Time Stop Time

General Data Panel

Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	<u>Value</u> 20dB Wh 1.000000e+002 1.40 AC Weighted	<u>Description</u> SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	<u>Value</u> 1.40 AC Weighted 20dB Wh 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wh 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted HandArm 1 s m/s None None
Calibration Level Amin s^2	X	1.000000e+000 0.043837 m/s^2	ExposureReference Amax	X	2.8 m/s 0.174872 m/
Aeq s^2	Χ	0.115874 m/s^2	Amp	Χ	2.157522 m/
Amin s^2	Υ	0.034919 m/s^2	Amax	Υ	0.189413 m/
Aeq s^2	Υ	0.127737 m/s^2	Amp	Υ	1.588834 m/
Amin s^2	Z	0.023013 m/s^2	Amax	Z	0.249324 m/
Aeq	Z	0.141772 m/s^2	Amp	Z	7.807408 m/
s^2 Amin	Sum	0.082827 m/s^2	Amax	Sum	0.420448 m/
s^2 Aeq s^2	Sum	0.279730 m/s^2	Amp	Sum	8.491018 m/





11:39:57/1:47:12/1:54:27/2:01:42/2:08:57 4/29/2024729/2024729/2024729/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:30:35

Measurement	<u>X</u>	Υ	Z	<u>Sum</u>	<u>Units</u>
Amin	$\overline{0}$.0438	$\overline{0}$.0349	$\overline{0}$.0230		m/s²
Amax	0.1749	0.1894	0.2493		m/s²
Aeq	0.1159	0.1277	0.1418	0.2800*	m/s²
Amp	2.1575	1.5888	7.8074		m/s²
A(1)	0.0827	0.0912	0.1012	0.1999*	m/s²
A(2)	0.0585	0.0645	0.0716	0.1414*	m/s²
A(4)	0.0414	0.0456	0.0506	0.1000*	m/s²
A(8)	0.0292	0.0322	0.0358	0.0707*	m/s²
CÈmp	18.6196	12.4383	55.0703		
K Factor	1.4	1.4	1.0		
Max RMS		0.1788*			m/s²
A(8), Max RMS		0.0632*		0.0707*	m/s²

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours) Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	>24*	>24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.1622*	0.1788*	0.1418*	0.2800*	m/s²

Whole Body Vibration Study Report 5/3/2022

Information Panel

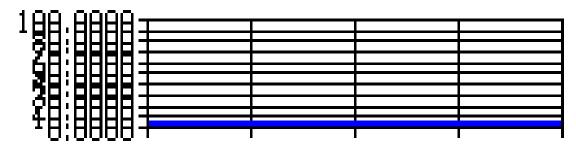
Loader (OD09 G 8571) Mr. Tapas Kumar Lohar Operator Location Name Comments

Friday, April 29, 2022 12:34:14 Friday, April 29, 2022 13:05:17 Start Time Stop Time

General Data Panel

Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X Y Y	Value 20dB Wd 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wd 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wk 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted WholeBody 1 s m/s None None
Calibration Level VDV s^2	X	1.000000e+000 2.243911 m/s^1.75	ExposureReference Amin	Х	2.8 m/s 0.008136 m/
Amax s^2	X	0.366220 m/s^2	Aeq	X	0.066606 m/
Amp s^1.75	X	2.410832 m/s^2	VDV	Υ	2.213738 m/
Amin	Υ	0.006411 m/s^2	Amax	Υ	0.361295 m/
s^2 Aeq	Υ	0.065622 m/s^2	Amp	Υ	2.391329 m/
s^2 VDV	Z	1.037229 m/s^1.75	Amin	Z	0.013945 m/
s^2 Amax	Z	0.168824 m/s^2	Aeq	Z	0.033986 m/
s^2 Amp	Z	1.148076 m/s^2	VDV	Sum	4.530554 m/
s^1.75 Amin	Sum	0.020346 m/s^2	Amax	Sum	0.739413 m/
s^2 Aeq s^2	Sum	0.135028 m/s^2	Amp	Sum	4.887384 m/





12:34:14.2:41:44.2:49:14.2:56:44.3:04:14 4/29/20**2**4/29/20**2**4/29/20**2**4/29/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:31:03

Measurement	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
VDV	2.2439	2 .2137	1.0372	3.7167*	m/s^1.75
Amin	0.0081	0.0064	0.0139		m/s²
Amax	0.3662	0.3613	0.1688		m/s²
Aeq	0.0666	0.0656	0.0340	0.1352*	m/s²
Amp	2.4108	2.3913	1.1481		m/s²
A(1)	0.0479	0.0472	0.0244	0.0973*	m/s²
A(2) A(4)	0.0339	0.0334	0.0173	0.0688*	m/s²
A(4)	0.0240	0.0236	0.0122	0.0486*	m/s²
A(8)	0.0169	0.0167	0.0086	0.0344*	m/s²
CFmp	36.1954	36.4412	33.7806		
K Factor	1.4	1.4	1.0		
Max RMS	0.0932*				m/s²
A(8), Max RMS	0.0332*			0.0344*	m/s²
Max VDV	3.1415*				m/s^1.75

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours)

Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	> 24*	- 24*	- 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.0932*	0.0919*	0.0340*	0.1352*	m/s²

VDV Calculated Values
Action Value Criterion 9.10 m/sec^1.75
Limit Value Criterion 21.00 m/sec^1.75
Exposure Time 08:00 hh:mm (8 hours) (8 hours)

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	- 24*	>24*	18:35*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
eVDV	1.2148	1.1968	0.6198	2.4665*	m/s^1.75

Whole Body Vibration Study Report 5/3/2022

General Data Panel

Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	Value 20dB Wd 1.000000e+002 1.40 AC Weighted	<u>Description</u> SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y	Value 1.40 AC Weighted 20dB Wd 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wk 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted WholeBody 1 s m/s None None
Calibration Level VDV	X	1.000000e+000 0.087673 m/s^1.75	ExposureReference Amin	X	2.8 m/s 0.007666 m/
s^2 Amax	Χ	0.013851 m/s^2	Aeq	Χ	0.008837 m/
s^2 Amp	Χ	0.094323 m/s^2	VDV	Υ	0.078781 m/
s^1.75 Amin	Υ	0.005943 m/s^2	Amax	Υ	0.012650 m/
s^2 Aeq	Υ	0.007039 m/s^2	Amp	Υ	0.096388 m/
s^2 VDV	Z	0.127219 m/s^1.75	Amin	Z	0.013665 m/
s^2 Amax	Z	0.015924 m/s^2	Aeq	Z	0.014309 m/
s^2 Amp s^1.75	Z	0.119377 m/s^2	VDV	Sum	0.188135 m/
Amin	Sum	0.019273 m/s^2	Amax	Sum	0.030498 m/
s^2 Aeq s^2	Sum	0.021304 m/s^2	Amp	Sum	0.180159 m/

Information Panel

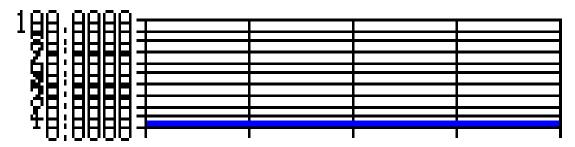
Location Name

Driller (CD 450) Mr. Kishore Chandra Mahakud

Operator Comments

Start Time Stop Time Friday, April 29, 2022 14:53:49 Friday, April 29, 2022 15:26:12





14:53:495:01:195:08:495:16:195:23:49 4/29/2024/29/2024/29/2024/29/2022

Date/Time

RMS X

RMS Y

RMS Z

RMS Sum

Exposure Calculator

(* measurements use k factor)

Run Time 00:32:23

Measurement	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
VDV	$\overline{0}.0877$	$\overline{0}$.0788	$\overline{0}$.1272	0.1589*	m/s^1.75
Amin	0.0077	0.0059	0.0137		m/s²
Amax	0.0139	0.0127	0.0159		m/s²
Aeq	0.0088	0.0070	0.0143	0.0213*	m/s²
Amp	0.0943	0.0964	0.1194		m/s²
A(1)	0.0065	0.0052	0.0105	0.0157*	m/s²
A(2)	0.0046	0.0037	0.0074	0.0111*	m/s²
A(4)	0.0032	0.0026	0.0053	0.0078*	m/s²
A(8)	0.0023	0.0018	0.0037	0.0055*	m/s²
CFmp	10.6739	13.6932	8.3429		
K Factor	1.4	1.4	1.0		
Max RMS			0.0143*		m/s²
A(8), Max RMS			0.0037*	0.0055*	m/s²
Max VDV			0.1272*		m/s^1.75

RMS Calculated Values

Action Value Criterion 0.50 m/s² (8 hours) Limit Value Criterion 1.15 m/s² (8 hours) Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	>24*	>24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.0124*	0.0099*	0.0143*	0.0213*	m/s²

VDV Calculated Values
Action Value Criterion 9.10 m/sec^1.75
Limit Value Criterion 21.00 m/sec^1.75
Exposure Time 08:00 hh:mm (8 hours) (8 hours)

	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	- 24*	> 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
eVDV	0.1612	0.1284	0.2610	0.3890*	m/s^1.75

Hand Arm Vibration Study Report

5/3/2022

Information Panel

Location Loader (OD09 G 8571)
Name Mr. Tapas Kumar Lohar

Comments Operator

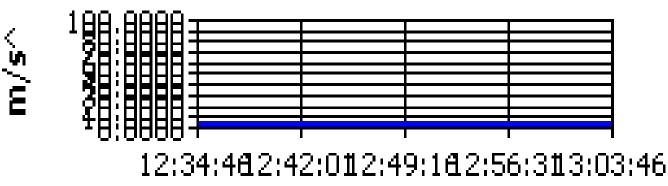
 Start Time
 Friday, April 29, 2022 12:34:46

 Stop Time
 Friday, April 29, 2022 13:05:40

General Data Panel

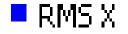
Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	Value 20dB Wh 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wh 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn	Z Z Z	20dB Wh 1.000000e+002 60s ICP 1e^-6 True False	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName	Z Z	1.00 AC Weighted HandArm 1 s m/s None None
Calibration Level Amin s^2	Χ	1.000000e+000 0.041526 m/s^2	ExposureReference Amax	X	2.8 m/s 0.173458 m/
Aeq s^2	Χ	0.094963 m/s^2	Amin	Υ	0.035061 m/
Amax	Υ	0.190700 m/s^2	Aeq	Υ	0.093813 m/
s^2 Amin	Z	0.043600 m/s^2	Amax	Z	0.139676 m/
s^2 Aeq s^2	Z	0.078568 m/s^2	Amin	Sum	0.087673 m/
Amax s^2	Sum	0.377291 m/s^2	Aeq	Sum	0.202404 m/

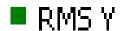
Logged Data Chart

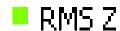


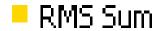
-12:34:46:2:42:0112:49:16:2:56:3113:03:46 -4/29/2024;29/2024;29/2024;29/2024;29/2022

Date/Time









Exposure Calculator (* measurements use k factor)

Run Time 00:30:54

<u>Measurement</u>	X	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
Amin	$\overline{0}.0415$	$\overline{0}$.0351	$\overline{0}.0436$		m/s ²
Amax	0.1735	0.1907	0.1397		m/s²
Aeq	0.0950	0.0938	0.0786	0.2027*	m/s²
A(1)	0.0681	0.0673	0.0564	0.1455*	m/s²
A(2)	0.0482	0.0476	0.0399	0.1029*	m/s²
A(4)	0.0341	0.0337	0.0282	0.0727*	m/s²
A(8)	0.0241	0.0238	0.0199	0.0514*	m/s²
CÈmp					
K Factor	1.4	1.4	1.0		
Max RMS	0.1329*				m/s²
A(8), Max RMS	0.0472*			0.0514*	m/s²

RMS Calculated Values
Action Value Criterion 0.50 m/s² (8 hours)
Limit Value Criterion 1.15 m/s² (8 hours)
Exposure Time 08:00 hh:mm

	<u>X</u>	<u>Y</u>	<u>z</u>	<u>Sum</u>	<u>Units</u>
EAV	>24*	>24*	>24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.1329*	0.1313*	0.0786*	0.2027*	m/s²

Hand Arm Vibration Study Report

5/3/2022

Information Panel

Location Driller (CD 450)

Mr. Kishore Chandra Mahakud Name

Comments Operator Start Time

Friday, April 29, 2022 14:53:36 Friday, April 29, 2022 15:25:58

General Data Panel

Stop Time

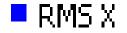
Description Gain Weighting Sensitivity SumFactor Output +002	Meter X X X X Y Y	Value 20dB Wh 1.000000e+002 1.40 AC Weighted	Description SumFactor Output Gain Weighting Sensitivity	Meter X X Y Y Y	Value 1.40 AC Weighted 20dB Wh 1.000000e
Gain Weighting Sensitivity Averaging Accelerometer DBReference Auto Save PrintLoggingOn Calibration Level Amin	Z Z Z	20dB Wh 1.000000e+002 60s ICP 1e^-6 True False 1.000000e+000 0.013833 m/s^2	SumFactor Output Mode StoreTime DisplayUnits Integration SecondHistory SetupFileName ExposureReference Amax	Z Z	1.00 AC Weighted HandArm 1 s m/s None None 2.8 m/s 0.146454 m/
s^2 Aeq	Χ	0.065091 m/s^2	Amin	Υ	0.013409 m/
s^2 ·			7 (111111		
Amax s^2	Υ	0.129654 m/s^2	Aeq	Y	0.055933 m/
Amin s^2	Z	0.010753 m/s^2	Amax	Z	0.096519 m/
Aeq s^2	Z	0.046780 m/s^2	Amin	Sum	0.029483 m/
Amax s^2	Sum	0.290145 m/s^2	Aeq	Sum	0.128779 m/

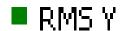
Logged Data Chart

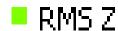


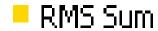
4/29/2024/29/2024/29/2024/29/2024/29/2022

Date/Time









Exposure Calculator (* measurements use k factor)

Run Time 00:32:22

<u>Measurement</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Sum</u>	<u>Units</u>
Amin	$\overline{0}$.0138	$\overline{0}$.0134	0 .0108		m/s ²
Amax	0.1465	0.1297	0.0965		m/s²
Aeq	0.0651	0.0559	0.0468	0.1289*	m/s²
A(1)	0.0478	0.0411	0.0344	0.0947*	m/s²
A(2)	0.0338	0.0290	0.0243	0.0670*	m/s²
A(4)	0.0239	0.0205	0.0172	0.0473*	m/s²
A(8)	0.0169	0.0145	0.0121	0.0335*	m/s²
CFmp					
K Factor	1.4	1.4	1.0		
Max RMS	0.0911*				m/s²
A(8), Max RMS	0.0331*			0.0335*	m/s²

RMS Calculated Values
Action Value Criterion 0.50 m/s² (8 hours)
Limit Value Criterion 1.15 m/s² (8 hours)
Exposure Time 08:00 hh:mm

	<u>X</u>	Υ	Z	<u>Sum</u>	<u>Units</u>
EAV	- 24*	- 24*	- 24*	>24*	hh:mm
ELV	>24*	>24*	>24*	>24*	hh:mm
A(8)	0.0911*	0.0783*	0.0468*	0.1289*	m/s²