

The Deputy Director General of Forest (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, (IRO) – Ranchi 2nd floor, Headquarter, Jharkhand State Housing Board Harmu Chowk, Harmu Housing Colony, Argora, Jharkhand – 834002.

Ref No. - JMB/ENV/DIG/37/252/2025 May 28th, 2025

Ref.: Environmental Clearance letter No.-J-11015/372/2010-IA.II(M)dated-30th September 2013.

SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEFCC, New Delhi to Digwadih Colliery, Tata Steel Limited, Dhanbad for the period October-24 to March-2025.

Dear Sir,

We are enclosing herewith compliance report for the period October-24 to March-2025 for the EC granted vide letter no.- J-11015/372/2010-IA.II(M) dated-30th September 2013 issued by Ministry of Environment, Forest and Climate Change, New Delhi.

We trust the information furnished is in line with your requirement.

Thanking you,

Yours faithfully,

Head (Planning)

Jharia Division, Tata Steel Ltd.

Encl: As above.

Copy to: Member Secretary, CPCB, Eastern Zonal Office, Southend Conclave, 502, 5th Floor . 1582, Rajdanga Main Road, Kolkata -700107.

Copy to: Member Secretary, JSPCB, T.A. Division Building (Ground Floor), H.E.C, Dhurwa, Ranchi - 834004.

Copy to: Regional Officer, JSPCB, HIG -1 Sardar Patel Nagar, Housing Colony, Hirapur, Dhanbad

5/31/25, 4:46 PM Home Page

Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/JH/CMIN/19215/2010	
Compliance ID	127995576	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127995576/2025	
Reporting Year	2025	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	31-05-2025	
RO/SRO Name	Shri Senthil Kumar Sampath	
RO/SRO Email	agmu156@ifs.nic.in	
State	JHARKHAND	
RO/SRO Office Address	Integrated Regional Offices, Ranchi	
Note: CMC and EMCTher have contracted the Contribution of	Secretary Hamiltonian Colonial Control of Decimal Deci	

Half Yearly Compliance Report 2025 01 Jun(01 Oct - 31 Mar)

Acknowledgement

Proposal Name	Digwadih Colliery of M/s Tata Steel Ltd. for (Expansion from 0.38 MTPA to 0.6 MTPA in ML area 314.57 ha), dist. Dhanbad, Jharkhand
Name of Entity / Corporate Office	Tata Steel Ltd.
Village(s)	N/A
District	DHANBAD

Proposal No. IA/JH/CMIN/19215/2010
Plot / Survey / Khasra N/A

(M)

No.

State

JHARKHAND

MoEF File No.

J-11015/372/2010-IA.II

Category	Coal Mining
Sub-District	N/A
Entity's PAN	****2803M
Entity name as per PAN	UTSAV KASHYAP

Compliance Reporting Details

Reporting Year 2025

Half Yearly Compliance

Remarks (if any) Submission for October'24

to March'25.

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

Tata Steel Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	148.798	148.798
Revenue Land	13.652	13.652
Forest	0	0
Others	152.12	152.12
Total	314.57	314.57

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Raw Coal	Million Tons per Annum (MTPA)	N/A	0.6	0	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The maximum production from the mines shall not exceed beyond that for which environmental clearance has been granted.

PPs Submission: Complied

It is being strictly followed. The production from the colliery has been discontinued from February 2021.

Date: 30/05/2025

2 Statutory compliance

The impact on the Damodar river due to mining activity which is at a distance of 2 km be studied through a reputed 3rd Party and submitted to the SPCB and the regional office of the MoEF for monitoring.

PPs Submission: Complied

The underground coal mines operated by Tata Steel Ltd are adjacent to the Damodar River. Other coal mines of BCCL and SAIL are also in close proximity to the river basin. Major source of pollution of Damodar River is the flow of industrial effluents and untreated sewage water into the river. A number of OB dumps lie close to the river banks causing the flow of sediments into the river. As per the hydrology study conducted by Indian School of Mines, Dhanbad, the impact of the underground mines of Tata Steel Ltd is minimal. This is due to the following reasons The mining activity does not require any diversion of river/streams or natural drain. As land profile does not change appreciably in case of underground mines with backfilling of mined out areas, there is no change in surface drainage till date and unlikely to occur in future. Surface water quality also does not undergo any change, as there is no discharge to surface drainage in dry season. In Monsoon, the excess mine water discharged gets mixed with storm water. Large settling tanks are available for storage and sedimentation of mine water before its discharge to conform to the norms. The industrial wastewater generated during vehicle washing from the central workshop catering to all the mines is treated in oil and grease trap followed by recycling of water. The two coal washeries of Tata Steel are operating on Zero Liquid discharge (ZLD) principle. Sewage water generated from our townships is treated in STP. For Sijua group, one STP of 200 KLD and another STP of 50 KLD has been installed in Bhelatand Colonies. 10 KLD has been installed at Sijua canteen and Bhelatand canteen individually. For Jamadoba group, 10 KLD STP/ETP installed in washery, Canteen, Garage and Hospital individually, other than that 60 KLD and 30 KLD installed at Digwadih Colony, 50 KLD installed at Railway Colony.

Date: 26/05/2025

3 Statutory compliance

Details of underground transportation of coal from mine to coal yard/ rail yard be submitted to the MoEF for record.

PPs Submission: Complied

Coal from the mine is sent to the captive Jamadoba coal washery for beneficiation purpose through a network of underground conveyor belts. The detailed diagram of transportation network has already been submitted in earlier compliance reports.

Date: 26/05/2025

4

WASTE MANAGEMENT

Adequate care be taken to prevent sand spillages from the trucks/tippers.

PPs Submission: Complied

The trucks that are being used for the transportation of sand are properly covered using tarpaulin sheets. Larger trucks have been engaged for reducing no of cycles. To ensure the compliance, every vehicle is checked as per vehicle checklist on PUC, Tyre /body condition, emission check at every entry point. Quality checks are done on trucks to ensure its health.

Date: 26/05/2025

5

WASTE MANAGEMENT

The test results of the study of leaching of heavy metals from bottom-ash be submitted to SPCB and the regional office of the MoEF for monitoring.

A study characte concentr for disch	ristics of fly ash and bottom ash samp ation of heavy metals in the leachates	of Mines Dhanbad to assess the leachability les taken from us has determined that the were invariably well below the permissible limits indards IS 2490 (1993). The test results have lso re-submitted in April-18.	Date: 26/05/2025
6	Corporate Environmental Responsibility	The CSR activities shall be need based and detailed prepared for implementation.	l CSR plan be
The CSI only after		red by TSRDS (Tata Steel Rural Development Society) ds have been held with the elected/senior members of to be undertaken.	Date: 26/05/2025
7	Corporate Environmental Responsibility	The detailed breakup of funds during 2012-13 be so MoEF for record. A social audit to be got done annual institute and uploaded on the company's website.	
The deta viz. Integrated agency.	grated Reports are made annually for	ted to MOEF. The Corporate Sustainability Reports the company which is certified by an assurance e company. All the reports are uploaded on the Tata is also conducted once in five years	Date: 26/05/2025
8	WASTE MANAGEMENT	There should be no OB dumps at the end of the min	ning.
	ubmission: Complied is is an underground mine, it is not app	plicable.	Date: 26/05/2025
9	MISCELLANEOUS	Regular monitoring of subsidence movement on the and around the working area and impact on natural d water bodies, vegetation, structure, roads, and surrou continued till movement ceases completely. In case of any high rate of subsidence movement, appropriate e corrective measures shall be taken to avoid loss of lift Cracks shall be effectively plugged with ballast and of soil/suitable material.	rainage pattern, ndings shall be of observation of ffective e and material.
Regular Dhanbao	d. According to the subsidence reports bund mine workings are now at great of	Central Institute for Mining and Fuel Research, , the impact of subsidence is negligible since the lepth and proper filling of voids through sand stowing	Date: 26/05/2025
10	Statutory compliance	If subsidence is found exceeding the permitted limitandowners shall be adequately compensated with most the landowners.	
	ubmission: Complied e strictly followed.		Date: 26/05/2025
11	Statutory compliance	Mining shall be carried out as per statuette at a safe the river/nallah flowing adjacent to the lease boundar	
		5 ,	-

Since this is an underground project, there is hardly any impact on the river/ nallah. The closest jore is at a distance of about 2kms from the mine office area. Therefore, no impact on the course of flow

PPs Submission: Complied

Date:

26/05/2025

12	GREENBELT	High root density tree species shall be selected and pareas likely to be affected by subsidence.	lanted over
Impact	Submission: Complied ton land by subsidence has been for prepared by CIMFR, Dhanbad.	ound to be negligible as per the subsidence monitoring	Date: 26/05/2025
13	Statutory compliance	Coal extraction shall also be optimized in areas when production is continuing. Some pillars shall be left belo agricultural land. No depillaring & coal extraction show out below habitation, H.T. Lines & beneath road, water	ow the uld be carried
	Submission: Complied be strictly followed.		Date: 26/05/202:
14	Statutory compliance	Subsidence shall be monitored closely and if subside exceeding the permitted limits, then the landowners shadequately compensated with mutual agreement with the	all be
	Submission: Complied ar monitoring of subsidence is being	ng done by CIMFR, Dhanbad.	Date: 26/05/202
15	GREENBELT	3-tier plantation should be developed 2 km stretch of mine using native species.	road from th
Plantat		en done. 3-tier plantation is not feasible due to presence of iery. However, plantation has been done on vacant plots and	Date: 26/05/202
Plantat private	tion along stretches of road has been		safety areas city shall be ne peak sudd the mine site
Plantat private areas 16 PPs : Garlan	WATER QUALITY MONITORING AND PRESERVATION Submission: Complied and drains of adequate size and grade runoff. The details of size of garl	Garland drains (size, gradient and length) around the such as mine shaft and low lying areas and sump capac designed keeping 50% safety margin over and above the rainfall and maximum discharge in the area adjoining to Sump capacity shall also provide adequate retention per shaft and summary of the summary	safety areas city shall be ne peak sudd the mine sites
Plantat private areas 16 PPs 3 Garlan surface	WATER QUALITY MONITORING AND PRESERVATION Submission: Complied and drains of adequate size and grade runoff. The details of size of garl	Garland drains (size, gradient and length) around the such as mine shaft and low lying areas and sump capac designed keeping 50% safety margin over and above the rainfall and maximum discharge in the area adjoining to Sump capacity shall also provide adequate retention per proper settling of silt material.	safety areas sity shall be ne peak sudd the mine site eriod to allow Date: 26/05/202 alfields shou ollution ource to sou dust, etc). In on the 0 and PM2.5 would help

Water sprinkling system shall be provided to check fugitive AIR QUALITY emissions from loading operations, conveyor system, haulage roads, 18 MONITORING AND transfer points, etc. Major approach roads shall be black topped and **PRESERVATION** properly maintained. **PPs Submission:** Complied Date: Water spraying arrangement is present in the underground mines at all transfer points. Water 26/05/2025 spraying via tankers is done on sand transportation routes. Major approach roads have been blacktopped and maintained regularly. AIR QUALITY Transportation of coal from the mine to railway siding should be by 19 MONITORING AND 20T mechanically covered trucks. **PRESERVATION** Date: PPs Submission: Complied 26/05/2025 Not applicable due to transportation of coal via underground belt conveyor network system directly to washery. A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML 20 **GREENBELT** boundary and township etc, by planting native species in consultation with the local DFO/Agriculture Department. PPs Submission: Complied Tree plantation activities are carried out every year on the barren/ degraded areas, areas along roadside, infrastructure, etc of the colliery leasehold. Apart from these, fruit plants are distributed to Date: 30/05/2025 employees and also to villagers, schools, institutions, etc. The environment department is responsible for implementing the afforestation plan which is prepared along with the mine management. High root density trees of native species are planted under annual plantation program and around 12313 Nos of saplings were planted in the FY25 and provided in Annexure I. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be WATER QUALITY done four times a year in pre-monsoon (May), monsoon (August), 21 MONITORING AND post-monsoon (November) and winter (January) seasons and for **PRESERVATION** quality in May. Data thus collected shall be submitted to the MoEF&CC and to the CPCB quarterly within one month of monitoring. Date: PPs Submission: Complied 26/05/2025 The regular monitoring of groundwater level and quality is done as per the requirement. The groundwater quality report and groundwater level reports are provided in Annexure II. WATER QUALITY Acid Water Treatment Plant, volume of water to be treated and 22 MONITORING AND disposal of brine should be provided. **PRESERVATION** Date: PPs Submission: Complied 26/05/2025 Not applicable. WATER QUALITY Mine discharge water outside the ML shall be monitored, MONITORING AND 23 particularly for TDS and treated to conform to prescribed levels **PRESERVATION** before discharge into the natural environment. Date: PPs Submission: Complied 26/05/2025 There is one mine-water outlet point in the colliery which is regularly monitored by the

Environmental Laboratory.

24 WATER QUALITY MONITORING AND PRESERVATION The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource, in case water table shows a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

PPs Submission: Complied

Most of the water pumped out during underground mining activity is re-circulated back into the mine for the purpose of stowing. Backfilling of mine voids by stowing is done using sand which is having the porosity to hold the underground water thus helping aquifer to retain the underground water. Further, there are a number of ponds existing on the surface of the mining lease which act as natural reservoirs for recharging ground water. These ponds/ tanks are regularly cleaned and maintained by our CSR department. As per the hydro-geological report, the variation in the ground water level is only seasonal. The water requirement of the nearby villages is being met by the company already. Now piped drinking water is being provided.

Date: 26/05/2025

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Human Health Environment

Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.

PPs Submission: Complied

The periodic health checkup of the workers is done regularly by our Occupational Health Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) Centre approved by DGMS where 20 percentage of the workers identified from workforce engaged in active mining operations are subjected to full medical checkup including hearing impairment checkup, etc. These results are regularly submitted to DGMS as per mines rules. Some sample reports and as well as past records have been submitted in previous compliance reports.

Date: 26/05/2025

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Statutory compliance

The mining in the existing mines would be phased out after expiry of the current mining lease and after reclamation of mined over area. The operating mines may be analyzed and monitored for compliance of conditions, having bearing with movement of wild life until such time they are closed/ phased out.

PPs Submission: Complied It is not applicable in our case.

Date: 26/05/2025

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Corporate Environmental Responsibility

Project specific CSR for an amount of Rs 5/Tonne of coal production should be provided for the activities under CSR undertaken for the neighboring villages shall be for not less than Rs 10 per tonne of coal and the progress made thereon shall be uploaded by the company annually on the company website. Monitoring of the impacts of activities under CSR shall be carried out periodically.

PPs Submission: Complied

The proposed CSR expenditure for the entire company is decided as per the new Company Rules. Once the CSR budget for company is fixed, a share of that amount is dedicated and utilized for implementing the CSR activities at our Jharia Division level. CSR data submitted is for Jharia Division which comprises all 5 collieries and 2 washeries. Jamadoba Washery, Digwadih Colliery and 6 and 7 Pits Colliery are adjacent to each other and fall under same leasehold area i.e. Jamadoba group of collieries. The core zone and buffer zone of all above units overlap to each other and in many cases, the villages are same where CSR work is going on. Therefore, we have a central budget for CSR which is managed by a team of experts who are dedicatedly involved in providing benefits and improving standard of living in over 50 plus villages and municipal wards. Hence, separate CSR expenditure for individual unit cannot be estimated. For calculation/ statutory reporting purpose, the consolidated CSR expenditure can be divided into unit-wise based on size of leasehold area of individual units. The progress report is uploaded every year on the company website. Internal social

Date: 30/05/2025

audits are carried out regularly to assess the impact of CSR activities.

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

PPs Submission: Complied

Mine Closure Plan has been approved by Ministry of Coal, New Delhi. Details on deposition of closure cost in escrow account along with expenditure incurred for progressive closure is regularly submitted to Office of Coal controller. Final mine closure along with details of corpus fund will be submitted to MoEFCC 5 years in advance.

Date: 26/05/2025

Corporate Environmental Responsibility

Corporate Environment Responsibility: a)The Company shall have a well laid down Environment Policy approved by the Board of Directors. b)The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. c)The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. d) To have proper checks and balances, the company shall have a well laid down system of reporting of noncompliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

PPs Submission: Complied

PRESERVATION

The Company already has an Environment Policy approved by the Managing Director and it addresses all the issues mentioned. The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is brought to the notice of higher management. Moreover, Digwadih Colliery is IMS (Integrated Management System: Quality Management System, Environment Management System and OHSAS) certified unit addressing all environment aspects, impacts and needs and expectation of interested parties with respect to environment protection.

Date: 26/05/2025

General Conditions

			
Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	No change in technology and scope of working shall be made without prior approval of the MoEF.	
	abmission: Complied ag strictly followed. Board and Pillar	method is being used for mining.	Date: 26/05/2025
2	MISCELLANEOUS	No change in the calendar plan including quantum of and waste being produced shall be made.	mineral coal
	abmission: Complied e strictly followed.		Date: 26/05/2025
3	AIR QUALITY MONITORING AND	Four ambient air quality monitoring stations shall be the core zone as well as in the buffer zone for monitori PM2.5, SO2 and NOx. Location of the stations shall be on the metaerological data, topographical features and	ng PM10, e decided based

on the meteorological data, topographical features and

environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals

		such as Hg, As, Ni, Cd, Cr, in RSPM etc. shall be carrionce in six months.	ied out at leas
The Air Colony, Kalimar indepen	Jamadoba (Buffer Zone) (iii)Digwadi adir area (Buffer Zone) Monitoring of	nadoba Group Office (Core Zone) (ii)New Village h 12 No. Colony (Buffer Zone) (iv)6 and 7 Pits heavy metals in ambient air is being performed by an and NABL) on quarterly basis. The results are	Date: 26/05/2025
ı	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality (PM10, PM2.5, SO2 and heavy metals such as Hg, As, Ni, Cr, etc) and other moshall be regularly submitted to the Ministry including it Office at Bhubaneswar and to the SPCB and the CPCE months. Random verification of samples through analy independent laboratories recognised under the EP Rule be furnished as part of the compliance report.	onitoring data its Regional 3 once in six vsis from
Ambien s attach NABL 1	ned as Annexure II. Additionally, third	O2 and NOx) for the period from Oct-24 to March-25 party monitoring is being done through a JSPCB and 2.5, SO2, NOx, CO, NH3, O3 and heavy metals (As, mexure II.	Date: 26/05/2025
í	Noise Monitoring & Prevention	Adequate measures shall be taken for control of nois 85 dBA in the work environment. Workers engaged in drilling operations, operation of HEMM, etc shall be p ear plugs/muffs.	blasting and
Regular	ubmission: Complied noise survey is being conducted in the d with ear-plugs/ muffs in high noise a	e underground work environment. Workers are areas.	Date: 26/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	Industrial wastewater (workshop and wastewater from shall be properly collected, and treated so as to conform standards including for heavy metals before discharge under GSR 422 (E) dated 19th May 1993 and 31st Decas amended from time to time. Oil and grease trap shall before discharge of workshop effluents.	m to the prescribed cember 1993 o
No indu	age in Jamadoba where Effluent Treatr	radih Colliery premises. There is a central workshop ment Plant having oil and grease trap facility has been	Date: 26/05/2025
•	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions shall be kept under control and monitored. Vehicles used for transportation of the min covered with tarpaulins and optimally loaded.	
Only the Coal tra		es are being allowed to operate for sand transportation. Ind belt network. Only sand transportation is done ins as well as optimally loaded.	Date: 26/05/2025
3	Statutory compliance	Monitoring of environmental quality parameters shall through establishment of adequate number and type of monitoring and analysis equipment in consultation wit data got analysed through a laboratory recognised under 1986.	pollution h SPCB and

We have also	lysis is also done at regular intervals b	aboratory with qualified personnel. The monitoring y a JSPCB and NABL accredited laboratory We Quality Monitoring Station at Jamadoba for real	Date: 26/05/2025
9	Statutory compliance	Monitoring of outlet points should be carried out an same should be maintained and submitted to the Regit the MOEF as part of the Compliance Report.	
There is		lliery which is regularly monitored by the ts have been provided as Annexure II.	Date: 26/05/2025
10	Human Health Environment	Personnel working in dusty areas shall wear protect devices and they shall also be provided with adequate information on safety and health aspects. Occupation surveillance programme of the workers shall be unde periodically to observe any contractions due to expos to take corrective measures, if needed.	e training and al health rtaken
Persons		ided with dust masks and have been given awareness PME (Periodic Medical Examinations) are being done.	Date: 26/05/2025
11	MISCELLANEOUS	A separate environmental management cell with surpersonnel shall be set up under the control of a Senior will report directly to the Head of the company.	
We have	ubmission: Complied e a separate Environmental Manageme mental Cell is directly to General Mar	ent Cell with qualified personnel. The reporting of nager of the Division.	Date: 30/05/2025
12	Corporate Environmental Responsibility	The funds earmarked for environmental protection is be kept in separate account and shall not be diverted purpose. Year-wise expenditure shall be reported to this Regional Office at Bhubaneswar.	for other
The Env with leg		Environmental protection measures and for complying tental expenditure for the financial year 2023-2024 is	Date: 26/05/2025
13	MISCELLANEOUS	The Project authorities shall advertise at least in two newspapers widely circulated around the project, one be in the vernacular language of the locality concerned days of the clearance letter informing that the project accorded environmental clearance and a copy of the cavailable with the State Pollution control Board and at the website of the ministry of Environment & Fore http://envfor.nic.in.	of which shall ad within seven has been clearance letter may also be seen
	ubmission: Complied een complied with.		Date: 30/05/2025
14	Statutory compliance	A copy of the environmental clearance letter shall be concerned Panchayat/Zila Parishad, Municipal Corpo Local Body and local NGO, if any, from whom any suggestion/representation has been received while pro-	ration or Urban

			Date:
It has b	submission: Complied een complied with.		30/05/2025
15	Statutory compliance	A copy of the clearance letter shall be displayed on the concerned State Pollution Control Board. The EC libe displayed at the Regional Office, District Industry Collector's Office/Tehsildar's Office for 30 days.	etter shall als
	Submission: Complied een complied with.		Date: 26/05/2025
16	Statutory compliance	The clearance letter shall be uploaded on the compant. The compliance status of the stipulated EC conditions a uploaded by the project authorities on their website and least once every six months so as to bring the same in the domain. The monitoring data of environmental quality (air, water, noise and soil) and critical pollutants such a PM2.5, SO2 and NOx (ambient and stack if any) and comparameters shall also be displayed at the entrance of the premises and mines office and in corporate office and company's website.	shall also be I updated at he public parameters is PM10, ritical sectorate project
The cle yearly o		n the company website. The compliance status (as Half-ded in company website. The display of information near	Date: 26/05/2025
17	Statutory compliance	The project proponent shall submit six monthly report of compliance of the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the MOEF, the respective Zonal offices of CPCB and the stipulated project in the stipulated statement of the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental clearance (both in hard copy and in e-mail) to the respective Reg the stipulated environmental cl	e conditions ional Office
	ubmission: Complied ng complied		Date: 26/05/2025
18	Statutory compliance	The Regional Office of this Ministry located at Bhop monitor compliance of the stipulated conditions. The P authorities shall extend full cooperation to the office(s) Regional Office by furnishing the requisite data/information/monitoring reports.	roject
	ubmission: Complied be complied with.		Date: 26/05/2023

JMB/ENV/ESSA/05/565/2024 on 27th September 2024 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEF by email at ro.ranchimefgov.in.

26/05/2025

Visit Remarks	
Last Site Visit Report Date:	N/A
Additional Remarks:	
NT 4 PRO1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

HALF YEARLY COMPLIANCE REPORT

(PERIOD: OCTOBER'24 – MARCH'25)

DIGWADIH COLLIERY

(CAPACITY: EXPANSION FROM 0.38 TO 0.6 MTPA RAW COAL) TEHSIL: JHARIA, DIST: DHANBAD, JHARKHAND



TATA STEEL LIMITED, JHARIA DIVISION

P.O. - JAMADOBA, DIST. - DHANBAD, STATE- JHARKHAND, PIN CODE – 828112

ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO. - J-11015/372/2010-IA.II(M) DATED- 30.09.2013 ISSUED BY GOVT. OF INDIA, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW DELHI.

The state of the s	Compliance Status
Specific Condition	
mines shall not exceed beyond that for Th	t is being strictly followed. The production from the colliery has been liscontinued from February 2021.
mining activity which is at a distance of 2 km be studied through a reputed 3 rd Or Party and submitted to the SPCB and the regional office of the MoEF for monitoring. St. Or	The underground coal mines operated by Tata Steel Ltd are adjacent to the Damodar River. Other coal mines of BCCL & SAIL are also in close proximity to the river basin. Major ource of pollution of Damodar River is the flow of industrial effluents and untreated ewage water into the river. A number of OB dumps lie close to the river banks causing the flow of sediments into the river. As per the hydrology study conducted by indian School of Mines, Dhanbad, the impact of the underground mines of Tata Steel Ltd is minimal. This is due to the following reasons • The mining activity does not require any diversion of river/streams or natural drain. As land profile does not change appreciably in case of underground mines with backfilling of mined out areas, there is no change in surface drainage till date and unlikely to occur in future. • Surface water quality also does not undergo any change, as there is no discharge to surface drainage in dry season. In Monsoon, the excess mine water discharged gets mixed with storm water. • Large settling tanks are available for storage and sedimentation of mine water before its discharge to conform to the norms. The industrial wastewater generated during vehicle washing from the central workshop catering to all the mines is treated in oil and grease trap

		 The two coal washeries of Tata Steel are operating on Zero Liquid discharge (ZLD) principle. Sewage water generated from our townships is treated in STP. For Sijua group, one STP of 200 KLD and another STP of 50 KLD has been installed in Bhelatand Colonies, 10 KLD has been installed at Sijua canteen and Bhelatand canteen individually. For Jamadoba group, 10 KLD STP/ETP installed in washery, Canteen, Garage and Hospital individually, other than that 60 KLD and 30 KLD installed at Digwadih Colony, 50 KLD installed at Railway Colony.
(iii)	Details of underground transportation of coal from mine to coal yard/rail yard be submitted to the MoEF for record.	Coal from the mine is sent to the captive Jamadoba coal washery for beneficiation purpose through a network of underground conveyor belts. The detailed diagram of transportation network has already been submitted in earlier compliance reports.
(iv)	Adequate care be taken to prevent sand spillages from the trucks/tippers.	The trucks that are being used for the transportation of sand are properly covered using tarpaulin sheets. Larger trucks have been engaged for reducing no of cycles. To ensure the compliance, every vehicle is checked as per vehicle checklist on PUC, Tyre /body condition, emission check at every entry point. Quality checks are done on trucks to ensure its health.
(v)	The test results of the study of leaching of heavy metals from bottom-ash be submitted to SPCB and the regional office of the MoEF for monitoring.	A study conducted in 2013, by Indian School of Mines, Dhanbad to assess the leachability characteristics of fly ash and bottom ash samples taken from us, has determined that the concentration of heavy metals in the leachates were invariably well below the permissible limits for discharge of effluents as per the Indian standards IS 2490 (1993). The test results have already been submitted in December'13 and also re-submitted in April'18.

(vi)	The CSR activities shall be need based	The CSR plan for each financial year is
	and detailed CSR plan be prepared for	prepared by TSF (Tata Steel Foundation) only
	implementation.	after proper discussions to assess the needs
		have been held with the elected/ senior
		members of the communities where our CSR
		activities are to be undertaken.
(vii)	The detailed breakup of funds during	The detailed breakup has already been
	2012-13 be submitted to the MoEF for	submitted to MOEF.
	record. A social audit to be got done	The Corporate Sustainability Reports viz.
	annually by a reputed institute and	Integrated Reports are made annually for the
	uploaded on the company's website.	company which is certified by an assurance
	aproaded on the company is website.	agency. It also includes the Social Audit of the
		company. All the reports are uploaded on the
		Tata Steel website.
		Further, an internal Social audit is also
		conducted once in five years
(viii)	There should be no OB dumps at the end	Since this is an underground mine, it is not
(VIII)	of the mining.	applicable.
	of the mining.	аррисане.
(ix)	Regular monitoring of subsidence	Regular monitoring of subsidence is done by
	movement on the surface over and	Central Institute for Mining and Fuel
	around the working area and impact on	Research, Dhanbad. According to the
	natural drainage pattern, water bodies,	subsidence reports, the impact of subsidence
	vegetation, structure, roads, and	is negligible since the underground mine
	surroundings shall be continued till	workings are now at great depth and proper
	movement ceases completely. In case of	filling of voids through sand stowing is being
	observation of any high rate of	done.
	subsidence movement, appropriate	done.
	effective corrective measures shall be	
	taken to avoid loss of life and material.	
	Cracks shall be effectively plugged with	
	ballast and clayey soil/suitable material.	
(x)	If subsidence is found exceeding the	It will be strictly followed.
(A)	permitted limits, then the landowners	it will be strictly followed.
	shall be adequately compensated with	
	mutual agreement of the landowners.	
(vi)		Since this is an underground project there is
(xi)	Mining shall be carried out as per statuette at a safe distance from the	Since this is an underground project, there is
		hardly any impact on the river/ nallah. The
	river/nallah flowing adjacent to the lease	closest jore is at a distance of about 2kms
	boundary.	from the mine office area. Therefore, no
		impact on the course of flow in the jore is
		anticipated.

(xii)	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Impact on land by subsidence has been found to be negligible as per the subsidence monitoring reports prepared by CIMFR, Dhanbad.
(xiii)	Coal extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring & coal extraction should be carried out below habitation, H.T. Lines & beneath road, water bodies.	It will be strictly followed.
(xiv)	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement with the landowners.	Regular monitoring of subsidence is being done by CIMFR, Dhanbad.
(xv)	3-tier plantation should be developed 2 km stretch of road from the mine using native species.	Plantation along stretches of road has been done. 3-tier plantation is not feasible due to presence of private land around the periphery of colliery. However, plantation has been done on vacant plots and areas
(xvi)	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Garland drains of adequate size and gradient already exist around the colliery area to channelize the surface runoff. The details of size of garland drain mapped in surface plan has been submitted earlier in April'18.
(xvii)	The locations of monitoring stations in the Jharia Coalfields should be finalized in consultation with the Jharkhand State Pollution Control Board. The smoke/dust emission varies from source to source (fuel wood, coal, flyash from TPPs, silica from natural dust, etc). Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM10 and	The locations of monitoring stations for our colliery have already been finalized in consultation with JSPCB, Dhanbad. The mineralogical composition study has been carried out by an independent laboratory (recognized by JSPCB and NABL) and the results are provided in Annexure II

(xix)	PM2.5) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken. Water sprinkling system shall be	Water spraying arrangement is present in the
	provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	underground mines at all transfer points. Water spraying via tankers is done on sand transportation routes. Major approach roads have been black-topped and maintained regularly.
(xx)	Transportation of coal from the mine to railway siding should be by 20T mechanically covered trucks.	Not applicable due to transportation of coal via underground belt conveyor network system directly to washery.
(xxi)	A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc, by planting native species in consultation with the local DFO/Agriculture Department.	Tree plantation activities are carried out every year on the barren/ degraded areas, areas along road-side, infrastructure, etc of the colliery leasehold. Apart from these, fruit plants are distributed to employees and also to villagers, schools, institutions, etc. The environment department is responsible for implementing the afforestation plan which is prepared along with the mine management. High root density trees of native species are planted under annual plantation program and around 12313 Nos of saplings were planted in the FY25 and provided in Annexure I.
(xxii)	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the MoEF&CC and to the CPCB quarterly within one month of monitoring.	The regular monitoring of groundwater level and quality is done as per the requirement. The groundwater quality report & groundwater level reports are provided in Annexure II.

(xxiii)	Acid Water Treatment Plant, volume of	Not applicable.
	water to be treated and disposal of brine	
	should be provided.	
(xxiv)	Mine discharge water outside the ML	There is one mine-water outlet point in the
	shall be monitored, particularly for TDS	colliery which is regularly monitored by the
	and treated to conform to prescribed	Environmental Laboratory.
	levels before discharge into the natural	
	environment.	
(xxv)	The Company shall put up artificial	Most of the water pumped out during
	groundwater recharge measures for	underground mining activity is re-circulated
	augmentation of groundwater resource,	back into the mine for the purpose of stowing.
	in case water table shows a declining	Backfilling of mine voids by stowing is done
	trend. The project authorities shall meet	using sand which is having the porosity to
	water requirement of nearby village(s) in	hold the underground water thus helping
	case the village wells go dry due to	aquifer to retain the underground water.
	dewatering of mine.	Further, there are a number of ponds existing
		on the surface of the mining lease which act
		as natural reservoirs for recharging ground
		water. These ponds/ tanks are regularly
		cleaned and maintained by our CSR department. As per the hydro-geological
		report, the variation in the ground water level
		is only seasonal.
		The water requirement of the nearby villages
		is being met by the company already. Now
		piped drinking water is being provided.
(xxvi)	Besides carrying out regular periodic	The periodic health checkup of the workers is
	health checkup of their workers, 10% of	done regularly by our Occupational Health
	the workers identified from workforce	Department, Tata Central Hospital,
	engaged in active mining operations	Jamadoba. We have a PME (Periodic Medical
	shall be subjected to health checkup for	Examination) Centre approved by DGMS
	occupational diseases and hearing	where 20 % of the workers identified from
	impairment, if any, through an agency	workforce engaged in active mining
	such as NIOH, Ahmedabad within a	operations are subjected to full medical
	period of one year and the results	checkup including hearing impairment
	reported to this Ministry and to DGMS.	checkup, etc. These results are regularly
		submitted to DGMS as per mines rules. Some
		sample reports and as well as past records
		have been submitted in previous compliance
(reports.
(xxvii)	The mining in the existing mines would	It is not applicable in our case.
	be phased out after expiry of the current	

	mining lease and after reclamation of	
	mined over area. The operating mines	
	may be analyzed and monitored for	
	compliance of conditions, having	
	bearing with movement of wild life until	
	_	
(such time they are closed/ phased out.	The second CCD and the section
(xxviii)	Project specific CSR for an amount of Rs	The proposed CSR expenditure for the entire
	5/Tonne of coal production should be	company is decided as per the new Company
	provided for the activities under CSR	Rules. Once the CSR budget for company is
	undertaken for the neighboring villages	fixed, a share of that amount is dedicated and
	shall be for not less than Rs 10 per tonne	utilized for implementing the CSR activities
	of coal and the progress made thereon	at our Jharia Division level.
	shall be uploaded by the company annually on the company website.	CSR data submitted is for Jharia Division which comprises all 5 collieries and 2
	Monitoring of the impacts of activities	washeries. Jamadoba Washery, Digwadih
	under CSR shall be carried out	Colliery and 6&7 Pits Colliery are adjacent to
	periodically.	each other and fall under same leasehold area
		i.e. Jamadoba group of collieries. The core
		zone and buffer zone of all above units
		overlap to each other and in many cases, the
		-
		villages are same where CSR work is going
		on. Therefore, we have a central budget for
		CSR which is managed by a team of experts
		who are dedicatedly involved in providing
		benefits and improving standard of living in
		over 50+ villages and municipal wards.
		Hence, separate CSR expenditure for
		individual unit cannot be estimated. For
		calculation/ statutory reporting purpose, the
		consolidated CSR expenditure can be divided
		into unit-wise based on size of leasehold area
		of individual units.
		The progress report is uploaded every year on
		the company website. Internal social audits
		are carried out regularly to assess the impact of CSR activities.
(vviv)	A Final Mina Closura Dlan along with	
(xxix)	A Final Mine Closure Plan along with details of Corpus Fund shall be	Mine Closure Plan has been approved by Ministry of Coal, New Delhi. Details on
	1	-
	submitted to the Ministry of	deposition of closure cost in escrow account
	Environment & Forests 5 years in	along with expenditure incurred for
		progressive closure is regularly submitted to

	advance of final mine closure for	Office of Coal controller. Final mine closure
	approval.	along with details of corpus fund will be
		submitted to MoEF&CC 5 years in advance.
(xxx)	Corporate Environment Responsibility:	The Company already has an Environment
	a)The Company shall have a well laid down Environment Policy approved by the Board of Directors.	Policy approved by the Managing Director and it addresses all the issues mentioned.
	b)The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is brought to the notice of higher management.
	c)The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Moreover, Digwadih Colliery is IMS (Integrated Management System: Quality Management System, Environment Management System and OHSAS) certified unit addressing all environment aspects, impacts and needs and expectation of
	d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	interested parties with respect to environment protection.

В.	GENERAL CONDITIONS	
(i)	No change in technology and scope of working shall be made without prior approval of the MoEF.	It is being strictly followed. Board and Pillar method is being used for mining.
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	It will be strictly followed.
(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for	The Air quality monitoring stations are:

	monitoring DM10 DM25 CO2	(i) Isma daha Cross Office (C. 7
	monitoring PM10, PM2.5, SO2 and	(i)Jamadoba Group Office (Core Zone)
	NOx. Location of the stations shall be	(ii)New Village Colony, Jamadoba (Buffer
	decided based on the meteorological data, topographical features and	Zone)
	environmentally and ecologically	(iii)Digwadih 12 No. Colony (Buffer Zone)
	sensitive targets in consultation with	
	the State Pollution Control Board.	(iv)6&7 Pits Kalimandir area (Buffer Zone)
	Monitoring of heavy metals such as	
	Hg, As, Ni, Cd, Cr, in RSPM etc. shall	Monitoring of heavy metals in ambient air is
	be carried out at least once in six	being performed by an independent laboratory
	months.	(recognized by JSPCB & NABL) on quarterly
	montais.	basis. The results are enclosed as Annexure II.
(iv)	Data on ambient air quality (PM10,	Ambient air quality report (PM10, PM 2.5,
	PM2.5, SO2 and NOx and heavy	SO2 and NOx) for the period from April'23 to
	metals such as Hg, As, Ni, Cr, etc) and	Sep'23 is attached as Annexure II.
	other monitoring data shall be regularly	Additionally, third party monitoring is being
	submitted to the Ministry including its	done through a JSPCB and NABL recognized
	Regional Office at Bhubaneswar and to	Laboratory for PM10, PM 2.5, SO2, NOx, CO,
	the SPCB and the CPCB once in six	NH3, O3 and heavy metals (As, Ni, Cd and
	months. Random verification of	Cr). The results are enclosed as Annexure II.
	samples through analysis from	
	independent laboratories recognised	
	under the EP Rules, 1986 shall be	
	furnished as part of the compliance	
	report.	
(v)	Adequate measures shall be taken for	Regular noise survey is being conducted in the
	control of noise levels below 85 dBA in	underground work environment. Workers are
	the work environment. Workers	provided with ear-plugs/ muffs in high noise
	engaged in blasting and drilling	areas.
	operations, operation of HEMM, etc	
	shall be provided with ear plugs/muffs.	
(vi)	Industrial wastewater (workshop and	No industrial wastewater is generated in
	wastewater from the mine) shall be	Digwadih Colliery premises. There is a central
	properly collected, and treated so as to	workshop and garage in Jamadoba where
	conform to the standards including for	Effluent Treatment Plant having oil and grease
	heavy metals before discharge	trap facility has been provided.
	prescribed under GSR 422 (E) dated	
	19th May 1993 and 31st December	
	1993 or as amended from time to time.	
	Oil and grease trap shall be installed	
	before discharge of workshop	
	effluents.	

(vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	Only the vehicles having valid PUC certificates are being allowed to operate for sand transportation. Coal transportation is done through underground belt network. Only sand transportation is done through trucks which are covered with tarpaulins as well as optimally loaded.
(viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with SPCB and data got analysed through a laboratory recognised under EP Rules, 1986.	We have a fully equipped Environment Cell Laboratory with qualified personnel. The monitoring and analysis is also done at regular intervals by a JSPCB & NABL accredited laboratory We have also installed a Continuous Ambient Air Quality Monitoring Station at Jamadoba for real time monitoring.
(ix)	Monitoring of outlet points should be carried out and records of same should be maintained and submitted to the Regional Office of the MOEF as part of the Compliance Report.	There is one mine-water outlet point in the colliery which is regularly monitored by the Environmental Laboratory. The analysis results have been provided as Annexure II.
(x)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Persons working in dusty area have been provided with dust masks & have been given awareness training on safety & health aspects. Regular PME (Periodic Medical Examinations) are being done.
(xi)	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.
(xii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be	The Environment Cell has a separate fund for Environmental protection measures and for complying with legal requirements. The annual environmental expenditure for the financial year 2023-2024 is Rs. 321.33 lakhs.

	reported to this Ministry and its	
	Regional Office at Bhubaneswar.	
(xiii)	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular	It has been complied with.
	language of the locality concerned within seven days of the clearance letter informing that the project has 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 the website of the ministry of Environment & Forests at http://envfor.nic.in .	
(xiv)	A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/representation has been	It has been complied with.
	received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	
(xv)	A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	It has been complied with.
(xvi)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical	The clearance letter has been uploaded on the company's website. The compliance status (as Half-yearly compliance report) is being uploaded in company's website. The display of information near the mine's office has been done.

	pollutants such as PM10, PM2.5, SO2	
	and NOx (ambient and stack if any) and	
	critical sectoral parameters shall also	
	be displayed at the entrance of the	
	project premises and mines office and	
	_	
(••)	company's website.	W. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(xvii)	The project proponent shall submit six	It is being complied
	monthly reports on the status of	
	compliance of the stipulated	
	environmental clearance conditions	
	(both in hard copy and in e-mail) to the	
	respective Regional Office of the	
	MOEF, the respective Zonal offices of	
	CPCB and the SPCB.	
(xviii)	The Regional Office of this Ministry	It will be complied with.
	located at Bhopal shall monitor	
	compliance of the stipulated	
	conditions. The Project authorities	
	shall extend full cooperation to the	
	office(s) of the Regional Office by	
	furnishing the requisite data/	
	information/monitoring reports.	
(xix)	The environmental statement for each	The environmental statement for financial year
	financial year ending 31st March in	2023-24 has been submitted to JSPCB vide
	Form-V is mandated to be submitted by	letter no. JMB/ENV/ESSA/05/565/2024 on
	the project proponent tot the concerned	27 th September 2024 and it is also uploaded on
	State Pollution Control Board as	the company website. The soft copy of
	prescribed under the Environment	Environment Statement is also sent to MOEF
	(Protection) Rules, 1986, as amended	by email at ro.ranchi-mef@gov.in.
	subsequently, shall also be uploaded on	
	the company's website along with the	
	status of compliance of EC conditions	
	and shall be sent to the respective	
	Regional Offices of the MOEF by E-	
	mail.	

Statement showing measures taken for increasing tree and forest cover

Plantation activities are carried out in the barren land of the colliery leasehold area to increase the green cover as well as in the washery premises. Care is taken to plant only the native species so that native ecosystem is preserved. Following are the details of mass plantation in our leasehold area of Jharia Division for greenery development.

	1
Year	No. of trees planted
FY14	10195
FY15	15800
FY16	10000
FY17	10900
FY18	8500
FY19	10000
FY20	50235
FY21	3000
FY22	10005
FY23	25117
FY24	12452
FY25	12313

Glimpses of plantation activities for FY25:









Before After





Before After





Before After





Before After





Before After



ADITI R&D SERVICES

Testing Laboratory NABL ACCREDITED

(A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015,ISO (OHSAS) 45001:2018 Certified

Plot No. - I-B-17 (P) Sindri, Industrial Area. P.O.- Domgarh, Dist.- Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), * Fax: 0326-2952377 Mobile: 09471358492, 09431512608

Date: 04/12/2024

Ref. No.: - ARDS/24-25/AAQ/1

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

TEST REPORT OF AMBIENT AIR QUALITY

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO .:

: 4700126557/932 Date:- 29/05/2024

Date of Sample Collection: 26/11/2024 To 27/11/2024

Date of Testing

: 28/11/2024 To 02/12/2024

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity 4			
SI No.	Particulars	Value				
1.	Particulate Matter (PM ₁₀), µg/m ³	83.98	100 μg/m³			
2.	Particulate Matter (PM _{2.5}), µg/m ³	48.49	60 μg/m³			
3.	SO ₂ , μg/m ³	19.30	80 μg/m³			
4.	NO ₂ , µg/m ³	28.15	80 μg/m³			
5.	Ozone, µg/m³	16.23	180 µg/m³			
6.	NH ₃ , µg/m ³	13.49	400 μg/m³			
7.	CO, mg/m ³	0.78	4 mg/m³			
8.	Pb, μg/m ³	BDL	1 μg/m³			
9.	As, ng/m³	BDL	6 ng/m³			
10.	Ni, ng/m³	BDL	20 ng/m³			
11.	Benzene, µg/m³	BDL	5 μg/m ³	-		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³			

NOTE: BDL - Below Detection Limit





Aditi R&D Services, Sindri

- 1. The test report refers only to the particular item(s) submitted for testing.
- 2. The test results reported in this report are valid at the time of and under the stated condition of measurment.
- This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.



ADITI R&D SERVICES

Testing Laboratory NABL ACCREDITED

(A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015,ISO (OHSAS) 45001:2018 Certified

Plot No. - I-B-17 (P) Sindri, Industrial Area. P.O.- Domgarh, Dist.- Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), * Fax: 0326-2952377 Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/ AAQ/2

Date: 04/12/2024 TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

: 4700126557/932 Date: - 29/05/2024

Date of Sample Collection: 26/11/2024 to 27/11/2024

Date of Testing

: 28/11/2024 to 02/12/2024

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity	46%		
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	76.58	100 μg/m³			
2.	Particulate Matter (PM _{2.5}), µg/m ³	41.36	60 μg/m³ .			
3.	SO ₂ , μg/m ³	18.73	80 μg/m³			
4.	NO ₂ , µg/m ³	26.65	80 μg/m³			
5.	Ozone, µg/m³	16.76	180 µg/m³			
6.	NH ₃ , µg/m ³	13.78	400 μg/m ³			
7.	CO, mg/m ³	0.71	4 mg/m ³			
8.	Pb, μg/m ³	BDL	1 μg/m³			
9.	As, ng/m ³	BDL	6 ng/m³			
10.	Ni, ng/m ³	BDL	20 ng/m³			
11.	Benzene, µg/m³	BDL	5 μg/m³	- 1		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³			

NOTE: BDL - Below Detection Limit





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Date: 04/12/2024

Ref. No.: - ARDS/24-25/ AAQ/3

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.

: 4700126557/932 Date:- 29/05/2024

• Date of Sample Cone

Date of Sample Collection: 25/11/2024 to 26/11/2024

Date of Testing

: 28/11/2024 to 02/12/2024

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity	46%	
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	86.84	100 μg/m³ -		
2.	Particulate Matter (PM _{2.5}), µg/m ³	49.26	60 μg/m³		
3.	SO ₂ , μg/m ³	21.78	80 μg/m³		
4.	NO ₂ , µg/m ³	29.96	80 μg/m³		
5.	Ozone, µg/m³	18.84	180 µg/m³		
6.	NH ₃ , µg/m ³	16.76	400 μg/m³		
7.	CO, mg/m ³	0.94	4 mg/m³		
8.	Pb, μg/m³	BDL	1 μg/m³		
9.	As, ng/m ³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 µg/m³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 04/12/2024

Ref. No.: - ARDS/24-25/ AAQ/4

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

: 4700126557/932 Date:- 29/05/2024

Date of Sample Collection

Date of Sample Collection: 25/11/2024 To 26/11/2024

Date of Testing

: 28/11/2024 to 02/12/2024

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity	46%	
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	69.80	100 μg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	38.75	60 μg/m³ *		
3.	SO ₂ , μg/m ³	16.38	80 μg/m³		
4.	NO ₂ , µg/m ³	26.58	80 μg/m³		
5.	Ozone, µg/m³	17.75	180 µg/m³		
6.	NH ₃ , µg/m ³	15.63	400 μg/m ³		
7.	CO, mg/m ³	0.83	4 mg/m³		
8.	Pb, μg/m³	BDL	1 μg/m³		
9.	As, ng/m³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 μg/m³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit





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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date					NAME AND ADDRESS OF THE CLIENT						
AR	ARDS/24-25/NOISE/1Date: 04/12/2024 Date of Monitoring				M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT,						
							DIST	- DHANB	AD (JHARKHA	ND)	
25/11/2024 To 27/11/2024 Work Order 4700126557/932 Date:- 29/05/2024			Avg. Average Ambient Humidity Temperature (%)		Weather Condition	Status of the plant					
				25 49		Clear	Running				
				МО	NITC	RING	RESU	LTS	*		
SI. No			10 PM)	Night Time (10 PM to 6 AM) Avg. dB(A)			to 6 AM)	for Indus CPCB N (Regulati (Amendm notified v	Ambient standard) trial Area as per loise Pollution on and Control) ent) Rules , 2000 ide S.O. 1046(E) 22.11.2020 in dB(A) Leq		
								Day Time	Night Time		
LOCATION		MAX MIN A				MAX N	MIN		industrial	Industrial	
JAN	MADOBA GROUP		Le	q			dB(A) L	Area	. Area		
1.	Central Workshop Area	57.9	54.3	56.4	46	49.6	42.1	47.3	75	70	
2.	6 & 7 Pits Colliery Office	59.7	51.9	57.3	36	46.8	40.6	44.72	- OT 175	70	
									Residential Area	Residential Area	
3.	Officer Colony 12 No. Digwadih	53.4	49.6	51.	9	45.6	42.7	44.39	65	55	
									Silence	Silence Zone	
4.	Tata Central Hospital	47.2	42.8	45.5	53	39.4	36.4	38.15	50	40	

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Ref. No.: - ARDS/24-25/MINER./1 Date: 04/12/2024

TEST REPORT OF MINERALOGICAL COMPOSITION OF PARTICULATE MATTER

Name of the industry : M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024

Date of Sample Collection: 26/11/2024 and 27/11/2024
 Date of Testing: 28/11/2024 To 30/11/2024

TEST RESULTS

SI No.	Particulars	Mineralogical Composition (%)				
	1.0	SiO ₂	FeO	Al ₂ O ₃	CaO	
1.	Central Work Shop Area, Jamadoba	1.90	0.14	1.41	2.8	
2.	Officer Colony 12 No. Digwadih	1.87	0.12	1.35	2.36	





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Ref. No.: - ARDS/24-25/SW/1

Date: 04/12/2024

TEST REPORT OF SURFACE WATER

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

. Work Order Ref. NO .:

Date of Testing

4700126557/932 Date:- 29/05/2024

· Sample Code

Damodar River Up Stream
 Damodar River Down Stream

27/11/2024

Date of Sample Collection:

28/11/2024 To 03/12/2024

Test

pH, TDS, Turbidity, DO, BOD, CI, F, SO₄

TEST RESULT

SI.	PARAMETERS OF TEST	VA	LUE	Test
No.	Victoria Microsoft Control of Control	Damodar River Up Stream	Damodar River Dn Stream	Method
1.	pН	7.2	7.3	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	410	428	IS-3025 (P-16): 1984
3.	Turbidity, NTU	2	2	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.6	5.8	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.6	1.9	IS-3025 (P-44):1994
6.	Chloride as CI, mg/I	28	27.5	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.58	0.62	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	65.0	60.4	IS-3025 (P-24):1986





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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/MWD/1

Date: 04/12/2024

TEST REPORT OF MINE WATER DISCHARGE

Name of the industry

M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

4700126557/932 Date:- 29/05/2024

Sample Code :

2 Pit Jamadoba Colliery
 3 Pit Jamadoba Colliery

3. 6 & 7 Pits Colliery 4. Digwadih Colliery

. Date of Sample Collection:

25/11/2024 To 26/11/2024

Date of Testing

28/11/2024 To 03/12/2024

Test

pH, TDS, TSS, BOD, COD, OIL & GREASE.

TEST RESULT

SI.	PARAMETERS OF		VALU	E		Test Method
No.	TEST	2 Pit Jamadoba Colliery	3 Pit Jamadoba Colliery	6 & 7 Pits Colliery	Digwadih Colliery	×
1.	pH,	7.5	7.7	7.5	7.4	IS-3025 (P-11):1983
2.	Total Dissolved Solids, mg/l	865	839	915	790	IS-3025 (P-16):1984
3.	Total Suspended Solids, mg/l	39	42	46	38	IS-3025(P-17): 1984
4.	Bio chemical Oxygen Demand, mg/l	2.2	3.4	2.9	2.7	IS-3025 (P-4):1994
5.	Chemical Oxygen Demand, mg/l	66	72	62	69	IS-3025 (P-8):2006
6.	Oil & Grease, mg/l	BDL	0.9	0.8	BDL	IS-3025 (P-39):2021





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Ref. No.: - ARDS/24-25/STP/1 Date: 04/12/2024

TEST REPORT OF SEWAGE

Name of the industry : M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.: 4700126557/932 Date:- 29/05/2024

Sample Code : 1. STP Outlet- Railway Colony

STP Outlet -Digwadih 12 No Officers Colony
 STP Outlet -Digwadih 12 No. Supervisor flat

4. STP Outlet- Jmb. Canteen 5. STP Outlet- JCPP Canteen 25/11/2024 To 26/11/2024

Date of Testing : 28/11/2024 To 03/12/2024

Date of Sample Collection:

Test : pH, TDS, TSS, BOD, COD, OIL & GREASE,

and Fecal Coliform.

TEST RESULT

SI.	PARAMETERS OF			VALUE			Test Method
No.	TEST	STP Outlet Railway Colony	STP Outlet Digwadih 12 No Officers Colony	STP Outlet Digwadi h 12 No. Supervis or flat	STP Outlet Jmb. Cantee n	STP Outlet- JCPP Cantee n	
1.	pH,	7.9	7.8	7.8	7.6	7.5	IS-3025(P-11):1983
2.	Total Dissolved Solids, mg/l	855	850	910	812	710	IS-3025(P-16):1984
3.	Total Suspended Solids, mg/l	39	42	46	38	42	IS-3025(P-17):1984
4.	Bio chemical Oxygen Demand, mg/l	3.2	5.9	7.4	2.8	6.4	IS-3025(P-44):1994
5.	Chemical Oxygen Demand, mg/l	88	79	90	65	70	IS-3025(P-58):2006
6.	Oil & Grease, mg/l	1.0	0.7	0.9	0.9	0.8	IS-3025(P-39):2021
7.	Fecal Coliform (FC) (MPN/100ml)	720	620	592	570	518	IS - 1622

Sr. Chemist Aditi R&D Services



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Date: 04/12/2024

Ref. No.: - ARDS/24-25/ETP/1

TEST REPORT OF EFFLUENT

Name of the industry : M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024

.

Sample Code : 1. E.T.P. Outlet T.C.H.

2. E.T.P. Outlet Garage

Date of Sample Collection: 25/11/2024 To 26/11/2024
 Date of Testing : 28/11/2024 To 03/12/2024

Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

TEST RESULT

SI.	PARAMETERS OF TEST	VA	LUE	Test	
No.	The state of the s	E.T.P. Outlet T.C.H.	E.T.P. Outlet Garage	Method	
1.	pH,	8.2	8.0	IS-3025 (P-11): 1983	
2.	Total Dissolved Solids, mg/l	788	895	IS-3025 (P-16): 1984	
3.	Total Suspended Solids, mg/l	39	43	IS-3025(P-17): 1984	
4.	Bio chemical Oxygen Demand,	2.4	7.2	IS-3025 (P-44):1994	
5.	Chemical Oxygen Demand, mg/l	58	89	IS-3025 (P-58):2006	
6.	Oil & Grease, mg/l	0.9	2.4	IS-3025 (P-39):2021	
	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	4	1		

Note: BDL - Below Detection Limit





Technical Manager Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/DW/1

Date: 04/12/2024

TEST REPORT OF DRINKING WATER

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.: : 4700126557/932 Date: - 29/05/2024

Sample Code

1. Canteen- Jamadoba Colliery

2. Canteen- Jamadoba Washery

3. Canteen- Digwadih Colliery 4. Canteen- 6&7 Pits Colliery

Date of Sample Collection:

07.08.2024 To 09.08.2024

Date of Testing

10.08.2024 To 16.08.2024

Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform, Total Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

TEST DESIII T

SI.	PARAMETERS		VAL	-	7	IS as p		Test
No	OF TEST	EST Canteen- Jamadoba Jamado Colliery Washe		Canteen Digwadih Colliery	Canteen- 6&7 Pits Colliery	10500: Desirab le	Permi ssible	Method
1.	Colour, (Hazen Unit)	1	1	1	1	5.00	15.0	IS 3025 (P-4):2021
2.	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agree able	IS 3025 (P- 5):2018
3.	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agree able	IS 3025 (P- 7):2017
4.	Turbidity, NTU	1.0	0.8	0.2	3.0	1.0	5.0	IS 3025 (P- 10):1984
5.	pH 7.52		7.76	7.92	7.80	6.5-8.5	No. Relax.	IS-3025 (P- 11):1983
6.	Total Hardness 400 sas CaCO ₃ , mg/l		580	540	304	200	600	IS 3025 (P- 21):2009
7.	Chloride as Cl, mg/l	65.77	80.81	67.65	33.82	250	1000	IS 3025 (P- 32):1988
8.	Res. Free chlorine as Cl ₂ mg/l	NIL	NIL	NIL	NIL	0.20	1.0	IS 3025 (P- 26):2021
9.	Total Dissolved Solids, mg/l	Total Dissolved 535 540 Solids, mg/l - 188 160		595	280	500	2000	IS 3025 (P- 16):1984
10.	Calcium as CaCO ₃ , mg/l			128	136	75	200	IS 3025 (P- 40):1991
11	Copper as Cu, mg/l	BDL	BDL	BDL	BDL	0.05	1.5	IS 3025 (P- 42):1992

Continued on Page 2

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- 2 -

SI.	PARAMETERS OF		VAL	JE			per IS	Test	
No.	TEST	Canteen- Jamadoba	Canteen Jamadoba	Canteen Digwadih	Canteen - 6&7	2000000	0:1991	Method	
		Colliery	Washery	Colliery	Pits Colliery	Desira ble	Permis sible		
12.	Manganese as Mn, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.10	0.30	IS 3025 (P 59):2006	
13.	Sulphate as SO ₄ , mg/l	48.10	41.70	51.4	42.6	200	400	IS 3025 (P 24):1986	
14.	Nitrate as NO ₃ , mg/l	3.3	5.6	4.9	4.2	45	No. Relax	IS 3025 (P 34):1988	
15.	Fluoride as F, mg/l	0.34	0.30	0.32	0.37	1.0	1.5	IS 3025 (P 60):2008	
16.	Phenolic Compound as (C6H5OH) mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.001	0.002	IS 3025 (P 43):1992	
17.	Mercury as Hg, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.001	No. Relax	IS 3025 (P 48):1994	
18.	Cadmium as Cd, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.003	No. Relax	IS 3025 (P 41):1992	
19.	Arsenic as As, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.01	No. Relax	IS 3025 (P 37):1988	
20.	Cyanide as CN, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.05	No. Relax	IS 3025 (P 27):1986	
21.	Lead as Pb, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.01	No. Relax	IS 3025 (P 47):1994	
22.	Zinc as Zn, mg/l,	0.12	0.18	0.23	0.16	5	15 -	IS 3025 (P 42):1992	
23.	Total Coliform, No./100ml	Absent	Absent	Absent	Absent	Absen t	Absent	IS 3025 (P 49):1994	
24.	Total Chromium as Cr, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0,05	No. Relax	IS 3025 (P 52):2003	
25.	Mineral Oil, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.5	No. Relax	IS 3025 (P 39):1989	
26.	Alkalinity as CaCO ₃ , mg/l,	424	388	400	568	200	600	IS 3025 (P 23):1983	
27.	Aluminium as Al, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.03	0.2	IS 3025 (P 55):2003	
28.	Boron as B, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.5	1.0	IS 3025 (P 57):2005	

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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ADITI R&D SERVICES

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/GW/1 Date: 04/12/2024

TEST REPORT OF GROUND WATER

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

Work Order Ref. NO.

DIST. - DHANBAD (JHARKHAND) : 4700126557/932 Date:- 29/05/2024

Sample Code

1. Purnadih (Jorapokhar)

Digwadih 10 No F&J.
 Kali Mela Kali Mandir
 Upper Dungari

4. Upper Dungari 5. Kenduadih Basti

6. 6&7 Pits (Ayodhya Nagri) 25/11/2024 to 26/11/2024

Date of Sample Collection :

28/11/2024 To 04/12/2024

Date of Testing

Colour Odour Taste Turbidity

• Test :

Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform,

Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

TEST RESULT

SI. No	PARAMETER S OF TEST		ra.		/ALUE				per IS 0:1991	Test Method
		Purnad ih	Digwadih 10 NoF&J.	Kali Mela KaliMandir	Upper Dungari	Kenduadih Basti	6 & 7Pit (Ayodhya Nagri)	Desir - able	Permi- ssible	
1.	Colour, (Hazen Unit)	2	1	2	2	1	1	5	15	IS 3025 (P- 4):2021
2.	Temperature "C	25	24	25	24	25	24			
3.	Electrical Conductivity, µmhos/cm	1414	1390	1070	590	780	810	•	•	
4.	Total Dissolved Solids, mg/l	710	680	513	539	577	510	500	2000	IS 3025(P- 16):1984
5.	pH	7.9	7.8	7.4	7.7	7.3	7.8	6.5- 8.5	No Relax	IS-3025(P- 11):1983
6.	Total Hardness as CaCO ₃ , mg/l	575	480	496	336	380	362	200	600	IS 3025(P- 21):2009
7.	Calcium as Ca, mg/l	155.2	163.4	95	144	78	67.5	75	200	IS 3025(P- 40):1991
8.	Magnesium as Mg, mg/l	50.4	20.2	62.8	48.2	43.5	48.4	30	100	IS 3025(P- 46):1994
9.	Chloride as CI, mg/I	347.6 9	199	107.12	30.02	35.70	57.2	250	1000	IS 3025(P- 32):1988
10.	Fluoride as F, mg/l	0.42	0.32	0.39	0.50	0.40	0.38	1.0	1.5	IS 3025(P- 60):2008

Continued on Page -2

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2 .

SI. No	PARAMETERS OF TEST			VAI	LUE			IS as per IS 10500:1991		Test Method
		Purnadih	Digwadih 10 NoF&J.	KaliMela KaliMandir	Upper Dungari	Kenduadi h Basti	6 & 7Pit (Ayodhya Nagri)	Desir- able	Perm is- sible	
11	Sulphate as SO ₄ , mg/l	47.2	53.4	59.0	52.0	54.80	39.2	200	400	IS 3025(P- 24):1986
12.	Nitrate as NO ₃ , mg/l	7.2	7.9	8.4	7.5	8.0	7.8	45	No. Relax	IS 3025(P- 34):1988
13.	Alkalinity as CaCO ₃ , mg/l,	15.0	16.0	5.8	4.8	7.0	418	200	600	IS 3025(P- 23):1983
14.	Lead as Pb, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.01	No. Relax	IS 3025(P- 47):1994
15.	Zinc as Zn, mg/l,	0.19	0.12	0.13	0.2	0.18	0.19	5	15	IS 3025(P- 42):1992
16.	Iron a Fe, mg/l	0.13	0.20	0.24	0.22	0.25	0.12	1.0	No. Relax	IS 3025(P 53):2003
17.	Copper as Cu, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.05	1.5	IS3025 (P- 42):1992
18.	Mercury as Hg, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.001	No. Relax	IS 3025(P 48):1994
19.	Cadmium as Cd, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.003	No. Relax	IS 3025(P- 41):1992
20.	Nickel as Ni, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.02	No. Relax	IS 3025(P- 37):1992
21.	Arsenic as As, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.01	No. Relax	IS 3025(P 37):1988
22.	Cyanide as CN, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.05	No. Relax	IS 3025(P 27):1986
23.	Total Chromium as Cr, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.05	No. Relax	IS 3025(P- 52):2003

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Date: 19/02/2025

Ref. No.: - ARDS/24-25/AAQ/1

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED JAMADOBA GROUP PLANT. DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO .:

Test Procedure

: 4700126557/932 Date:- 29/05/2024

Date of Sample Collection : 12/02/2025 To 13/02/2025

Date of Testing

: 14/02/2025 To 18/02/2025 : As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	29°C	Avg. Humidity	28%			
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD			
1.	Particulate Matter (PM ₁₀), µg/m ³	79.78	100 µg/m³				
2.	Particulate Matter (PM _{2.5}), µg/m ³	46.06	60 µg/m ³				
3.	SO _{2,} µg/m ³	18.33	80 µg/m³				
4.	NO ₂ , µg/m ³	ug/m ³ 26.74 80 μg/m					
5.	Ozone, µg/m³	15.42	180 µg/m³				
6.	NH ₃ , μg/m ³	12.81	400 μg/m ³				
7.	CO, mg/m ³	0.74	4 mg/m³				
8.	Pb, µg/m³	BDL	1 µg/m³				
9.	As, ng/m ³	BDL	6 ng/m ³				
10.	Ni, ng/m³	BDL	20 ng/m³				
11.	Benzene, µg/m³	BDL	5 μg/m³				
12.	- Paris						

Below Detection Limit

Aditi R&D Service



Technical Manager Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Date: 19/02/2025

Ref. No.: - ARDS/24-25/ AAQ/2

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

: 4700126557/932 Date:- 29/05/2024

Date of Sample Collection : 12/02/2025 to 13/02/2025

Date of Testing

: 14/02/2025 to 18/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	29°C	Avg. Humidity	28%		
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARE		
1.	Particulate Matter (PM ₁₀), µg/m ³	72.75	100 µg/m³			
2.	Particulate Matter (PM _{2.5}), µg/m ³	39.29	60 µg/m³			
3.	SO ₂ , µg/m ³	17.79	80 µg/m³			
4.	NO ₂ , µg/m ³	25.32	80 µg/m³			
5.	Ozone, µg/m³	15.92	180 µg/m³			
6.	NH ₃ , µg/m ³	13.09	400 μg/m³			
7.	CO, mg/m ³	0.67	4 mg/m ³			
8.	Pb, μg/m³	BDL	1 µg/m³			
9.	As, ng/m³	BDL	6 ng/m ³			
10.	Ni, ng/m³	BDL	20 ng/m³	-		
11.	Benzene, µg/m³	BDL	5 μg/m³			
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³			

Aditi R&D Service



Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/ AAQ/3

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.

: 4700126557/932 Date:- 29/05/2024

Date of Testing

Date of Sample Collection : 11/02/2025 to 12/02/2025 : 14/02/2025 to 18/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	29°C	Avg. Humidity	28%	
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	82.45	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	46.79	60 µg/m³	1	
3.	SO _{2,} µg/m ³	20.69	80 µg/m³		
4.	NO ₂ , µg/m ³	28.46	80 µg/m³		
5.	Ozone, µg/m³	17.89	180 µg/m³		
6.	NH ₃ , µg/m ³	15.92	400 µg/m³		
7.	CO, mg/m ³	0.89	4 mg/m³		
8.	Pb, µg/m³	BDL	1 μg/m³		
9.	As, ng/m ³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m ³		
11.	Benzene, µg/m³	BDL	5 μg/m³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Service



Technical Mahager Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/ AAQ/4

TEST REPORT OF AMBIENT AIR QUALITY

Name of the industry : M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024

Date of Sample Collection : 11/02/2025 To 12/02/2025
 Date of Testing : 14/02/2025 to 18/02/2025

Test Procedure : As per IS-5182

TEST RESULTS

	LOCATION - TATA	CENTRAL	HOSPITAL				
	Avg. Ambient Temperature	29°C	Avg. Humidity	28%			
SI No.	Particulars	Value	NAAQ - CPCB STA	NDARD			
1.	Particulate Matter (PM ₁₀), µg/m ³	66.31	100 µg/m³				
2.	Particulate Matter (PM _{2.5}), µg/m ³	36.81	60 μg/m ³				
3.	SO ₂ , µg/m ³	15.56	80 µg/m ³				
4.	NO ₂ , µg/m ³	25.06	80 µg/m³				
5.	Ozone, µg/m³	16.86	180 µg/m³				
6.	NH ₃ , µg/m ³	14.85	400 µg/m³				
7.	CO, mg/m ³	0.79	4 mg/m ³				
8.	Pb, μg/m³	BDL	1 μg/m ³	5 0			
9.	As, ng/m ³	BDL	6 ng/m ³				
10.	Ni, ng/m³	BDL	20 ng/m ³				
11.	Benzene, µg/m³	BDL	5 μg/m ³				
12.	Benzoapyrene ng/m³	BDL	1 ng/m ³	1			

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Testing Laboratory

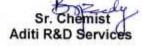
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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

	Ref. No	o. & Dat	е			N/	AME A	ND ADDRE	SS OF THE CL	IENT	
AR	DS/24-25/NOIS	E/1Date	e: 19/02	/2025			M/S T	ATA STEE	L, JAMADOB	Α,	
	Date of I	Monitor	ing		TATA	STE	EL L	IMITED, JA	MADOBA GR	OUP PLANT,	
							DIST	DHANBA) (JHARKHAN	ND)	
	11/02/2025	To 13/0	2/2025		Avg. Ambient Temperatur (°C)		Average Humidity (%)		Weather Condition	Status of the plant	
	Work Order 4 Date:- 2	1700126 29/05/20			29 30			30	Clear	Running	
				MON	ITORIN	G R	ESUL	TS			
SI. No	Place of Monitoring		Day Ti 6 AM to Avg. d	10 PM)		(1	Night T 0 PM to Avg. di	6 AM)	for Industr CPCB No (Regulatio (Amendmen notified vic	imbient standard ial Area as per ise Pollution n and Control) nt) Rules , 2000 le S.O. 1046(E) 2.11.2020 idB(A) Leq	
									Day Time	Night Time	
	LOCATION	MAX	MAX	MIN	AVG. dB	(A) MA	X	MIN	AVERAGE dB(A) Leg	Industrial	Industrial
JAN	IADOBA GROUP			Leq				db(A) Led	Area	Area	
1.	Central Workshop Area	62.68	57.01	60.71	52.	08	44.21	49.73		5-1120	
2.	6 & 7 Pits Colliery Office	60.79	54.49	58.69	49.	14	42.63	47.01	75	70	
									Residential Area	Residential Area	
3.	Officer Colony 12 No. Digwadih	56.07	58.87	57.69	47.	38	44.83	46.62	65	55	
									Silence Zone	Silence Zone	
4.	Tata Central Hospital	48.56	49.5	49.06	41.	37	38.22	40.07	50	40	





Technical Manager Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Date: 19/02/2025

Ref. No.: - ARDS/24-25/MINER./1

TEST REPORT OF MINERALOGICAL COMPOSITION

OF PARTICULATE MATTER

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.

: 4700126557/932 Date:- 29/05/2024

Date of Sample Collection

Date of Sample Collection : 12/02/2025 and 13/02/2025

Date of Testing

: 14/02/2025 To 18/02/2025

TEST RESULTS

SI No.	Particulars	Mineralogical Composition (%)					
		SiO ₂	FeO	Al ₂ O ₃	ĊaO		
1.	6 & 7 Pits Colliery Office	1.81	0.13	1.34	2.70		
2.	Tata Central Hospital	1.78	0.11	1.28	2.24		

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Plot No. - I-B-17 (P)

Date: 19/02/2025

Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/SW/1

TEST REPORT OF SURFACE WATER

Name of the industry

: M/S TATA STEEL, JAMADOBA.

TATA STEEL LIMITED

JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

4700126557/932 Date:- 29/05/2024

Sample Code

Damodar River Up Stream
 Damodar River Down Stream

Date of Sample Collection:

11/02/2025

Date of Testing

14/02/2025 To 18/02/2025

Test

pH, TDS, Turbidity, DO, BOD, CI, F, SO₄

TEST RESULT

SI.	PARAMETERS OF TEST	VAI	VALUE		Test
No.		Damodar River Up Stream	Damodar River Dn Stream	per IS 2296 Class - C	Method
1.	pH	7.9	7.6	6.5 -8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	434	532	1500	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1	1	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.1	5.2	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.7	2.2	3.0	IS-3025 (P-44):1994
6.	Chloride as CI, mg/I	44.6	36.8	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.4	0.4	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	28.2	24.6	400	IS-3025 (P-24):1986

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 21/02/2025

Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/MWD/1

TEST REPORT OF MINE WATER DISCHARGE

Name of the industry : M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED

JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
 Sample Code : 1. 2 Pit Jamadoba Colliery

2. 3 Pit Jamadoba Colliery

6 & 7 Pits Colliery
 Digwadih Colliery

Date of Sample Collection: 11/02/2025 To 12/02/2025
 Date of Testing : 14/02/2025 To 18/02/2025

Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

TEST RESULT

SI.	PARAMETERS OF		VALU	E		Limit as	Test
No.	TEST	2 Pit Jamadoba Colliery	3 Pit Jamadoba Colliery	6 & 7 Pits Colliery	Digwadih Colliery	per IS-2296 Class B (For Bathing)	Method
1.	pH,	7.9	7.6	7.9	7.8	6.5-8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	1209	897	624	987		IS-3025 (P-16): 1984
3.	Total Suspended Solids, mg/l	22	25	27	29	1.*1	IS-3025(P-17) : 1984
4.	Bio chemical Oxygen Demand, mg/l	2.0	1.6	1.5	2.4	3	IS-3025 (P- 44):1994
5.	Chemical Oxygen Demand, mg/l	96	84	78	110	•	IS-3025 (P- 58):2006
6.	Oil & Grease, mg/l	2.1	1.9	1.6	1.2	190	IS-3025 (P- 39):2021

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Fax: 0326-2952377

Date: 19/02/2025

Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/ETP/1

TEST REPORT OF EFFLUENT

Name of the industry

M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED
JAMADOBA GROUP PLANT,
DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO.:

4700126557/932 Date:- 29/05/2024

Sample Code

1. E.T.P. Outlet T.C.H.

2. E.T.P. Outlet Garage

Date of Sample Collection:

11/02/2025 To 12/02/2025

Date of Testing

14/02/2025 To 18/02/2025

Test

pH, TDS, TSS, BOD, COD, OIL & GREASE.

TEST RESULT

SI.	PARAMETERS OF TEST	VAL	UE	General	Test	
No.		E.T.P. Outlet T.C.H.	E.T.P. Outlet Garage	Standard for discharge of Environmental Pollutants , Inland Surface water by the MoEF&C	Method	
1.	pH,	8.5	8.3	5.5-9.0	IS-3025 (P-11): 1983	
2.	Total Dissolved Solids, mg/l	845	715		IS-3025 (P-16): 1984	
3.	Total Suspended Solids, mg/l	26	65	100	IS-3025(P-17): 1984	
4.	Bio chemical Oxygen Demand, mg/l	5.0	7.0	30	IS-3025 (P-44):1994	
5.	Chemical Oxygen Demand, mg/l	40	56	250	IS-3025 (P-58):2006	
6.	Oil & Grease, mg/l	1.6	3.2	10	IS-3025 (P-39):2021	

Note: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 21/02/2025

Ref. No.: - ARDS/24-25/DW/1

TEST REPORT OF DRINKING WATER

Name of the industry

: M/S TATA STEEL, JAMADOBA,

TATA STEEL LIMITED JAMADOBA GROUP PLANT. DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO .:

: 4700126557/932 Date:- 29/05/2024

Sample Code

1. Canteen- Jamadoba Colliery 2. Canteen- Jamadoba Washery 3. Canteen- Digwadih Colliery

4. Canteen- 6&7 Pits Colliery

Date of Sample Collection:

11/02/2025 To 12/02/2025

Date of Testing

14/02/2025 To 20/02/2025

Test

Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform, Total Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

TEST DESILIT

SI.	PARAMETERS		VAL	UE		IS as p		Test
No	OF TEST	Canteen-	Canteen-	Canteen	Canteen-	10500:	7.7.	Method
		Jamadoba Colliery	Jamadoba Washery	Digwadih Colliery	6&7 Pits Colliery	Desirab le	Permi ssible	
1.	Colour, (Hazen Unit)	1	1	1	1	5.00	15.0	IS 3025 (P-4):2021
2.	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agree able	IS 3025 (P- 5):2018
3.	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agree able	IS 3025 (P- 7):2017
4.	Turbidity, NTU	. 2	2	1	1	1.0	5.0	IS 3025 (P- 10):1984
5.	pH	7.8	7.7	7.9	7.9	6.5-8.5	No. Relax.	IS-3025 (P- 11):1983
6.	Total Hardness as CaCO ₃ , mg/l	583.8	567.0	441.0	344.4	200	600	IS 3025 (P- 21):2009
7.	Chloride as CI, mg/l	71.8	74.0	75.0	40.7	250	1000	IS 3025 (P- 32):1988
8.	Res. Free chlorine as Cl ₂ mg/l	NIL	NIL	NIL	NIL	0.20	1.0	IS 3025 (P- 26):2021
9.	Total Dissolved Solids, mg/l	792	840	752	418	500	2000	IS 3025 (P- 16):1984
10.	Calcium as Ca, mg/l	80.6	65.5	67.1	68.8	75	200	IS 3025 (P- 40):1991
11	Copper as Cu, mg/l	BDL	BDL	BDL	BDL	0.05	1.5	IS 3025 (P- 42):1992

Continued on Page 2

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- 2 -

SI.	PARAMETERS OF		VALI	JE			per IS	Test
No.	TEST	Canteen- Jamadoba Colliery	Canteen Jamadoba Washery	Canteen Digwadih Colliery	Canteen - 6&7 Pits Colliery	Desira ble	0:1991 Permis sible	Method
12.	Manganese as Mn, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.10	0.30	IS 3025 (P 59):2006
13.	Sulphate as SO ₄ , mg/l	35.6	37.8	34.8	38.6	200	400	IS 3025 (P 24):1986
14.	Nitrate as NO ₃ , mg/l	5.4	5.3	5.2	5.0	45	No. Relax	IS 3025 (P 34):1988
15.	Fluoride as F, mg/l	0.3	0.4	0.2	0.2	1.0	1.5	IS 3025 (P 60):2008
16.	Phenolic Compound as (C6H5OH) mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.001	0.002	IS 3025 (P 43):1992
17.	Mercury as Hg, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.001	No. Relax	IS 3025 (P 48):1994
18.	Cadmium as Cd, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.003	No. Relax	IS 3025 (P 41):1992
19.	Arsenic as As, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.01	No. Relax	IS 3025 (P 37):1988
20.	Cyanide as CN, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.05	No. Relax	IS 3025 (P 27):1986
21.	Lead as Pb, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.01	No. Relax	IS 3025 (P 47):1994
22.	Zinc as Zn, mg/l,	2	3	2	2	5	15	IS 3025 (P 42):1992
23.	Total Coliform, No./100ml	Absent	Absent	Absent	Absent	Absen t	Absent	IS 3025 (P 49):1994
24.	Total Chromium as Cr, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.05	No. Relax	IS 3025 (P 52):2003
25.	Mineral Oil, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.5	No. Relax	IS 3025 (P 39):1989
26.	Alkalinity as CaCO ₃ , mg/l,	448	424	400	184	200	600	IS 3025 (P 23):1983
27.	Aluminium as Al, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.03	0.2	IS 3025 (P 55):2003
28.	Boron as B, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	0.5	1.0	IS 3025 (P 57):2005

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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TEST REPORT OF STACK EMISSION

Ref. No & Dt.	NAME AND ADDRESS OF THE CLIENT			
ARDS/23-24/S/1 Date: 20/02/2025	M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PL		Α.	
Date of Sample Collection				
14/02/2025	DIST DHANBAD (JHARKHAND)			
Date of Testing	Nature of Sampling Collection: ISO - KINETIC SAMPLING			SAMPLING
17/02/2025 to 18/02/2025	Weather condition	Status of the Plant	Ambient Temperature (°C)	R.Humidity (%)
	Clear	Running	28	49

	GENERAL INFORMATION					
1.	Nature of the Plant	M.S.				
2.	Capacity of DG Set	2.0+2.0+2.0 MVA (6.0 MVA)				
3.	Location	Central Workshop Area, Jamadoba				
4.	No. of Stack	1				
5.	Stack Height from G.L. in Meter	30				
6.	Inner Shape & Size of Stack (in meter)¢	2.5				
7	Stack attached to	DG Set				
8.	Type of Fuel used	HSD				

GASEOUS EMISSION ANALYSIS RESULTS

SI. No	Particulars	Method	Value	As per CPCB STANDARD mg/Nm ³
1.	Flue gas temperature (°C)	IS: 11255 (Part-3)	103	-
2.	Velocity of flue gas (m/sec)	IS: 11255 (Part-3)	9.2	-
3.	Flow Rate of Flue gas (Nm3/Hr)	IS: 11255 (Part-3)	128903.11	
4.	Concentration of Particulate Matter (mg/ Nm³) at 15% O ₂	IS: 11255 (Part-1)	62.36	75
5.	Concentration of SOX as SO ₂ (mg/ Nm ³) at 15% O ₂	IS: 11255 (Part-2)	54.76	
6.	Concentration of NOX as NO ₂ (mg/ Nm ³) at 15% O ₂	IS: 11255 (Part-7)	126.41	360
7.	Non Methane Hydrocarbon (NMHC) at 15% O ₂	IS: 13270	46.79	100
8.	Carbon Monoxide (CO) (mg/Nm) ³	IS: 13270	37.2	150

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT				
ARDS/23-24/N/S/1 Date: 20/02/2025	M/S TATA STEEL, JAMADOBA.				
Date of Monitoring	TATA STEE	L LIMITED, JAN ST DHANBAD	MADOBA GRO (JHARKHANI	OUP PLANT,	
12/02/2025	Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant	
Work Order 4700092573/932 Dt. 20.07.2021	28	49	Clear	Running	

SI. No	Place of Monitoring	(6 AM to	Time o 10 PM) (A)	Noise level (Am for Industrial Ar Noise Pollution Control) (Amen 2000 notified vi Dt. 22.1	ea as per CPCB (Regulation and Idment) Rules , de S.O. 1046(E) 11.2020
			je:	Day Time	Night Time
	OCATION OBA GROUP	MAX	MIN	Industrial Area	Industrial Area
	Vorkshop Area	71.2	66.4	75	70

Remarks: Noise level is well within the standard specified limit for Industrial Area.

Sr. Technician Aditi R&D Services



Technical-Manager Aditi R&D Services, Sindri

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Date: 21/02/2025

TEST REPORT OF SEWAGE

M/S TATA STEEL, JAMADOBA, Name of the industry

> TATA STEEL LIMITED JAMADOBA GROUP PLANT,

DIST. - DHANBAD (JHARKHAND) 4700126557/932 Date:- 29/05/2024 Work Order Ref. NO.:

1. STP Outlet- Railway Colony Sample Code

2. STP Outlet -Digwadih 12 No Officers Colony 3. STP Outlet -Digwadih 12 No. Supervisor flat

4. STP Outlet- Jmb. Canteen 5. STP Outlet- JCPP Canteen 11/02/2025 To 12/02/2025

Date of Sample Collection: 14/02/2025 To 18/02/205 **Date of Testing**

pH, TDS, TSS, BOD, COD, OIL & GREASE, Test

and Fecal Coliform, Total Nitrogen, Total

Phosphorous. TEST RESULT

SI.	PARAMETERS OF		1	VALUE			As per	Test
No.	TEST	STP Outlet Railway Colony	STP Outlet Digwadih 12 No Officers Colony	STP Outlet Digwadi h 12 No. Supervis or flat	STP Outlet Jmb. Cantee	STP Outlet- JCPP Cantee n	MoEF&CC Notification for Sewage Treatment Plant	Method
1.	pH,	7.6	8.1	7.8	7.6	8.3	5.5-9.0	IS-3025(P- 11):1983
2.	Total Dissolved Solids, mg/l	1306.5	916.5	1144	1105	760.5		IS-3025(P- 16):1984
3.	Total Suspended Solids, mg/l	12	10	20	15	19	20	IS-3025(P- 17):1984
4.	Bio chemical Oxygen Demand, mg/l	8.2	6.5	8.0	9.0	9.8	10	IS-3025(P- 44):1994
5.	Chemical Oxygen Demand, mg/l	30	45	48	48.8	47.6	50	IS-3025(P- 58):2006
6.	Oil & Grease, mg/l	1.3	1.5	1.9	2.3	2.5		IS-3025(P- 39):2021
7.	Fecal Coliform (FC) (MPN/100ml)	125	116	122	128	136	Desirable 100 & Permissible 230	IS - 1622
8.	Total Nitrogen as N, mg/l	8.2	7.7	8.9	7.8	8.0	10	IS - 3025 (P-34):1988
9.	Total Phosphorus as P, mg/l	0.68	0.65	0.69	0.74	0.71	10	IS - 3025 (P-31):1988

Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Ref. No.: - ARDS/23-24/GW/1

TEST REPORT OF GROUND WATER

Name of the industry : M/S TATA STEEL, JAMADOBA.

TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)

Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024

Sample Code 1. Jorapokhar Kustand

2. Bhowra 13 No. 3. Mohalbani Basti 4. Lower Dungari 5. Jamadoba 3 No.

Date of Sample Collection: 11/02/2025 to 12/02/2025 Date of Testing 14/02/2025 to 20/02/2025

Colour, Odour, Taste, Turbidity, pH, Total Hardness,

Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compou'nd, Mercury, Cadmium,

Arsenic, Cyanide, Lead, Zinc, Total Coliform,

Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

TEST DESILIT

SI.	DADAME TERR		100	IEST KES	OLI				
No	PARAME-TERS OF TEST			ALUE				per IS 0:1991	Test Method
	Colour	Jorapokhar Kustand	Bhowra 13 No.	Mohalbani Basti	Lower Dungari	Jama doba 3 No	Desir- able	Permi- ssible	Metriod
1.	Colour, (Hazen Unit)	2	2	2	2	1	5	15	IS 3025 (P- 4):2021
2.	Temperature °C	27	28	27	28	27			4).2021
3.	Electrical Conductivity, µmhos/cm	2030	730	1030	660	840	•		8
4.	Total Dissolved Solids, mg/l	1308	460	650	415	546	500	2000	IS 3025(P- 16):1984
5.	pH	7.8	7.5	7.1	6.7	7.3	6.5- 8.5	No Relax	IS-3025(P- 11):1983
6.	Total Hardness as CaCO ₃ , mg/l	399	281.4	340.2	298.2	310	200	600	IS 3025(P- 21):2009
7.	Calcium as Ca, mg/l	124	86.6	116.0	67.2	80.4	75	200	IS 3025(P- 40):1991
8.	Magnesium as Mg, mg/l	21.4	16.2	12.0	31.2	26.2	30	100	IS 3025(P- 46):1994
9.	Chloride as CI, mg/l	248	64	106.7	85.3	72.6	250	1000	IS 3025(P- 32):1988
10.	Fluoride as F, mg/l	0.2	0.2	0.5	0.2	0.1	1.0	1.5	IS 3025(P- 60):2008

Continued on Page -2

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Mobile: 09471358492, 09431512608

SI. No	PARAMETERS OF TEST			VALUE				per IS 0:1991	Test Method
*		Jorapokhar Kustand	Bhowra 13 No.	Mohalbani Basti	Lower Dungari	Jamado ba 3 No	Desir - able	Permis -sible	
11	Sulphate as SO ₄ , mg/l	45.5	40.6	50.6	45.2	56.4	200	400	IS 3025(P- 24):1986
12.	Nitrate as NO ₃ , mg/l	4.9	4.8	5.6	4.8	4.9	45	No. Relax	IS 3025(P- 34):1988
13.	Alkalinity as CaCO ₃ , mg/l,	676	252	236	168	268	200	600	IS 3025(P- 23):1983
14.	Lead as Pb, mg/l	B.D.L	B.D.L	B.D.L	B.D.L.	B.D.L.	0.01	No. Relax	IS 3025(P- 47):1994
15.	Zinc as Zn, mg/l,	3	3	3	2	2	5	15	IS 3025(P- 42):1992
16.	Iron a Fe, mg/I	0.17	0.15	0.15	0.17	0.18	1.0	No. Relax	IS 3025(P- 53):2003
17.	Copper as Cu, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.05	1.5	IS3025 (P- 42):1992
18.	Mercury as Hg, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.001	No. Relax	IS 3025(P- 48):1994
19.	Cadmium as Cd, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.003	No. Relax	IS 3025(P- 41):1992
20.	Nickel as Ni, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.02	No. Relax	IS 3025(P- 37):1992
21.	Arsenic as As, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.01	No. Relax	IS 3025(P- 37):1988
22.	Cyanide as CN, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.05	No. Relax	IS 3025(P- 27):1986
23.	Total Chromium as Cr, mg/l	B.D.L	B.D.L	B.D.L	B.D.L	B.D.L.	0.05	No. Relax	IS 3025(P- 52):2003

NOTE: BDL - Below Detection Limit

Sr. Chemist



Technical Manager Aditi R&D Services, Sindri

- 1. The test report refers only to the particular item(s) submitted for testing.
- 2. The test results reported in this report are valid at the time of and under the stated condition of measurment.
- 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.

TATA STEEL LIMITED

JHARIA DIVISION

Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB/ENV/LAB/02/687 / 24

Date: 12/11/2024

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of OCTOBER'2024. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	04.10.24	Cloudy	190.7	66.3	17.8	20.5

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM 10 24 Hourly Limit-100 µg/m ³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m ³	NOx 24 Hourly Limit-80 μg/m³
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	03.10.24	Cloudy	70.6	35.8	16.5	19.2
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	07.10.24	Clear	86.3	42.8	17.2	20.8
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	08.10.24	Clear	80.1	40.7	18.6	21.1
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	09.10.24	Clear	76.2	38.5	15.4	18.3

Note: PM 10 - Less than 10-micron Particulate Matter

PM_{2.5} - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

Area Manager (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 770 / 24

Date: 09/12./2024

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of NOVEMBER'2024. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

		-01		the mercorimon	-			
S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m ³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	12.11.24	Clear	216.9	84.6	15.2	17.0

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM 10 24 Hourly Limit-100 µg/m³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m ³	NOx 24 Hourly Limit-80 μg/m³
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	12.11.24	Clear	90.2	54.6	19.7	22.3
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	12.11.24	Clear	82.5	41.3	16.1	18.4
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	13.11.24	Clear	78.4	37.5	17.8	20.4-
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	13.11.24	Clear	80.6	39.2	18.3	21.7

Note: PM 10 - Less than 10-micron Particulate Matter PM2.5 - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED

JHARIA DIVISION

Area Manager, Jamadoba Colliery Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 910 / 24

Date:

31/12/2024

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of DECEMBER'2024. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m ³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	06.12.24	Clear	248.9	82.5	16.8	18.3

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of	Weather Condition	PM 10 24 Hourly Limit-100 µg/m³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m ³	NOx 24 Hourly Limit-80 µg/m³
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	06.12.24	Clear	88.7	47.5	17.2	19.1
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	06.12.24	Clear	80.6	39.7	18.2	20.3
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	10.12.24	Clear	76.2	32.1	15.9	17.2
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	10.12.24	Clear	92.5	51.8	19.7	22.4

Note: PM 10 - Less than 10-micron Particulate Matter

PM_{2.5} - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED

JHARIA DIVISION

Area Manager, Jamadoba Colliery Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB/ENV/LAB/02/44 / 25

Date: 3/ / 0/ /2025

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of JANUARY'2025. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	07.01.25	Clear	239.5	80.3	17.2	20,4

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM 10 24 Hourly Limit-100 µg/m ³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m³	NOx 24 Hourly Limit-80 μg/m³
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	07.01.25	Clear	86.5	42.1	16.8	18.3
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	07.01.25	Clear	82.1	40.3	15.9	17.6
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	08.01.25	Clear	70.8	30.9	17.3	19.5
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	08.01.25	Clear	90.4	46.7	18.2	21.3

Note: PM 10 - Less than 10-micron Particulate Matter

PM_{2.5} - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED

JHARIA DIVISION

Area Manager, Jamadoba Colliery Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 29 / 25

Date: 28/02/2025

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of FEBRUARY'2025. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m ³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	11.02.25	Clear	231.7	84.6	18.3	21.7

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM 10 24 Hourly Limit-100 µg/m³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m ³	NOx 24 Hourly Limit-80 μg/m³
1	Jamadoba Group Office	23°42"15.3" N/ 86°24'11" E	11.02.25	Clear	78.9	37.2	15.0	17,2
2	Digwadih 12 No. Colony	23°41'42° N/ 86°24'45.3° E	11.02.25	Clear	80.6	39.5	17.2	19.1
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	12.02.25	Clear	76.2	33.1	16.4	18.
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	12.02.25	Clear	87.5	42.2	19.2	22.4

Note: PM 10 - Less than 10-micron Particulate Matter

PM2.5 - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area. Manager, Digwadih Colliery Area. Manager, 6 & 7 Pits Colliery Head, Jamadoba Coal Washery CMO, Tata Central Hospital, Jamadoba

Ref: JMB/ENV/LAB/02//53 /25

Date: 07/04 / 2025

Re: AIR QUALITY REPORT

We wish to inform you that Air Quality Monitoring was carried out in JAMADOBA GROUP in the month of MARCH'2025. The results are as given below.

Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	SPM 24 Hourly Limit-700 µg/m³	RSPM 24 Hourly Limit-300 µg/m³	SO ₂ 24 Hourly Limit-120 µg/m ³	NOx 24 Hourly Limit-120 μg/m³
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	05.03.25	Clear	247.6	86.2	19.1	22.6

Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM 10 24 Hourly Limit-100 µg/m³	PM 2.5 24 Hourly Limit- 60 µg/m³	SO ₂ 24 Hourly Limit-80 µg/m ³	NOx 24 Hourly Limit-80 μg/m³
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	05.03.25	Clear	92.4	51.6	18.2	21.7
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	05.03.25	Clear	84.5	42.3	16.8	18.3
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	06.03.25	Clear	78.6	36.5	15.1	17.4
4	Tata Central Hospital	23°42'36" N/ 86°24'10.4"E	06.03.25	Clear	83.1	40.9	17.8	20.1

Note: PM 10 - Less than 10-micron Particulate Matter

PM_{2.5} - Less than 2.5-micron Particulate Matter

μg - Microgram

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/ 64/ /24

Dated:

0//1//2024

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of OCTOBER'2024. The results are as given below:

0.31	M. in the Constitution	Die	Day (0	6.00 - 22.	00 Hrs.)	Night	(22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCI	CPCB Standard- 55		CPCB Standard- 45		
	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	24.10.24	42.2	44.5	43.4	34.3	36.7	35.5
2	New Village Colony, Jamadoba	24.10.24	43.5	45.7	44.6	35.7	37.8	36.8
3	6&7 Pits Kalimandir Colony	24.10.24	42.4	44.7	43.6	34.5	36.4	35.5
4	Digwadih 10 No. Colony	24.10.24	43.1	45.6	44.4	35.3	37.5	36.4

er 2.1	Marianina Santan	Dete	Day (0	6.00 - 22	00 Hrs.)	Night	(22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCB Standard- 75			CPCB Standard- 70		
	Industrial Area (Core Zone)	15	Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	24.10.24	53.4	56.7	55.1	45.2	48.4	46.8
2	2 Pit Top Kalimandir, Jamadoba	24.10.24	52.1	55.4	53.8	44.3	47.6	46.0
3	Weigh Bridge, Digwadih	24.10.24	49.7	52.6	51.2	41.5	44.7	43.1
4	Canteen Complex, Digwadih	24.10.24	46.4	47.7	47.1	38.1	40.3	39.2
5	Head Office Complex, Digwadih	24.10.24	46.2	48.5	47.4	38.4	40.6	39.5
6	Check Post Security Gate, 6&7 Pits	24.10.24	50.5	53.8	52.2	42.7	45.9	44.3
7	Canteen Complex, 6&7 Pits	24.10.24	46.3	47.6	47.0	38.5	40.7	39.6
8	Fan house- Nitrogen Plant, 6&7 Pits	24.10.24	72.3	73.5	72.9	64.2	65.6	64.9
9	Joota Gate, JCPP	24.10.24	58.8	61.9	60.4	50.6	53.4	52.0
10	Main Gate Stores, JCPP	24.10.24	53.6	56.4	55.0	45.4	48.6	47.0
11	Railway Siding Yard, JCPP	24.10.24	50.4	53.7	52.1	42.7	45.4	44.1

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

Area Manager (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref: JMB/ENV/LAB/05/731/24

Dated:

04/12/2024

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of NOVEMBER'2024. The results are as given below:

	Marianton Caratan	Duti	Day (0	6.00 - 22.	00 Hrs.)	Night	(22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCI	CPCB Standard- 55		CPCB Standard- 45		
1	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	22.11.24	42.4	44.7	43.6	34.7	36.5	35.6
2	New Village Colony, Jamadoba	22.11.24	43.1	45.3	44.2	35.3	37.6	36.5
3	6&7 Pits Kalimandir Colony	22.11.24	42.3	44.5	43.4	34.5	36.3	35.4
4	Digwadih 10 No. Colony	22.11.24	43.5	45.7	44.6	35.2	37.4	36.3

		There's	24 50.3 53.5 51.9 24 48.4 50.7 49.6 24 44.2 46.4 45.3 24 44.1 46.3 45.2 24 50.4 52.6 51.5	Night ((22.00-06.	00 Hrs)		
S.No	Monitoring Station	Date	CPCB Standard- 75			CPCB Standard- 70		
	Industrial Area (Core Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	22.11.24	51.5	54.8	53.2	43.3	46.5	44.9
2	2 Pit Top Kalimandir, Jamadoba	22.11.24	50.3	53.5	51.9	42.4	45.7	44.1
3	Weigh Bridge, Digwadih	22.11.24	48.4	50.7	49.6	40.2	42.5	41.4
4	Canteen Complex, Digwadih	22.11.24	44.2	46.4	45.3	36.5	38.6	37.6
5	Head Office Complex, Digwadih	22.11.24	44.1	46.3	45.2	36.3	38.5	37.4
6	Check Post Security Gate, 6&7 Pits	22.11.24	50.4	52.6	51.5	42.6	44.8	43.7
7	Canteen Complex, 6&7 Pits	22.11.24	44.4	46.7	45.6	36.2	38.6	37.4
8	Fan house-Nitrogen Plant, 6&7 Pits	22.11.24	72.2	73.4	72.8	64.2	65.7	65.0
9	Joota Gate, JCPP	22.11.24	56.5	59.7	58.1	48.7	51.9	50.3
10	Main Gate Stores, JCPP	22.11.24	52.4	55.6	54.0	44.5	47.8	46.2
11	Railway Siding Yard, JCPP	22.11.24	50.1	53.3	51.7	42.3	45.4	43.9

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref: JMB/ENV/LAB/05/817/24

Dated: 31/12/2024

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of DECEMBER'2024. The results are as given below:

	N. 1. 1. C. 1.	Descri	Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCB Standard- 55		CPC	CPCB Standard- 45		
	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	20.12.24	42.2	44.5	43.4	34.4	36.7	35.6
2	New Village Colony, Jamadoba	20.12.24	44.3	45.7	45.0	36.5	38.8	37.7
3	6&7 Pits Kalimandir Colony	20.12.24	42.7	44.6	43.7	34.3	36.5	35.4
4	Digwadih 10 No. Colony	20.12.24	43.1	45.3	44.2	35.6	37.9	36.8

	No. 14 1 Caral	Dete	Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCB Standard- 75			CPCB Standard- 7		
	Industrial Area (Core Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	20.12.24	52.2	55.6	53.9	44.5	47.8	46.2
2	2 Pit Top Kalimandir, Jamadoba	20.12.24	50.5	53.7	52.1	42.1	45.5	43.8
3	Weigh Bridge, Digwadih	20.12.24	48.2	50.4	49.3	40.3	42.6	41.5
4	Canteen Complex, Digwadih	20.12.24	44.7	45.6	45.2	36.2	38.4	37.3
5	Head Office Complex, Digwadih	20.12.24	44.4	46.5	45.5	36.5	38.7	37.6
6	Check Post Security Gate, 6&7 Pits	20.12.24	51.3	53.2	52.3	43.1	45.3	44.2
7	Canteen Complex, 6&7 Pits	20.12.24	44.6	45.4	45.0	36.4	38.7	37.6
8	Fan house- Nitrogen Plant, 6&7 Pits	20.12.24	72.3	73.5	72.9	64.4	65.6	65.0
9	Joota Gate, JCPP	20.12.24	57.4	60.7	59.1	49.5	52.8	51.2
10	Main Gate Stores, JCPP	20.12.24	51.6	54.9	53.3	43.2	46.5	44.9
11	Railway Siding Yard, JCPP	20.12.24	50.3	53.6	52.0	42.5	45.7	44.1

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref: JMB/ ENV/ LAB/ 05/ 51 /25

Dated:

31 /01 / 2025

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of JANUARY'2025. The results are as given below:

S.No	Monitoring Station	Data	Day (0	6.00 - 22.	00 Hrs.)	Night ((22.00-06.	00 Hrs)
5.NO	Monitoring Station	Date	CPCB Standard- 55 CPC Min. Max. Avg. Min. 5 41.7 43.4 42.6 33.5 5 42.5 44.6 43.6 34.3 5 42.3 44.5 43.4 34.6	CPCI	CB Standard- 45			
}	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	13.01.25	41.7	43.4	42.6	33.5	35.8	34.7
2	New Village Colony, Jamadoba	13.01.25	42.5	44.6	43.6	34.3	36.5	35.4
3	6&7 Pits Kalimandir Colony	13.01.25	42.3	44.5	43.4	34.6	36.8	35.7
4	Digwadih 10 No. Colony	13.01.25	43.6	45.8	44.7	35.4	37.6	36.5

S.No	Manitarina Station	Date	Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.	00 Hrs)
5.NO	Monitoring Station	Date	CPCB Standard- 75			CPCB Standard- 7		
	Industrial Area (Core Zone)	123	Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	13.01.25	52.6	55.8	54.2	44.5	47.7	46.1
2	2 Pit Top Kalimandir, Jamadoba	13.01.25	51.4	54.6	53.0	43.2	46.4	44.8
3	Weigh Bridge, Digwadih	13.01.25	49.7	51.5	50.6	41.6	43.8	42.7
4	Canteen Complex, Digwadih	13.01.25	45.2	47.5	46.4	37.3	39.6	38.5
5	Head Office Complex, Digwadih	13.01.25	44.8	46.6	45.7	36.5	38.7	37.6
6	Check Post Security Gate, 6&7 Pits	13.01.25	52.5	54.8	53.7	44.7	46.8	45.8
7	Canteen Complex, 6&7 Pits	13.01.25	44.1	46.3	45.2	36.3	38.5	37.4
8	Fan house- Nitrogen Plant, 6&7 Pits	13.01.25	72.4	73.6	73.0	64.5	65.7	65.1
9	Joota Gate, JCPP .	13.01.25	56.7	59.9	58.3	48.4	51.6	50.0
10	Main Gate Stores, JCPP	13.01.25	52.5	55.7	54.1	44.2	47.5	45.9
11	Railway Siding Yard, JCPP	13.01.25	51.4	54.5	53.0	43.5	46.7	45.1

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref: JMB/ENV/LAB/05/ /07/25

Dated: .28 /02/2025

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of FEBRUARY'2025. The results are as given below:

200	1. 1. 1. 5. 1.	Dete	Day (06.00 - 22.00 Hrs.)			Night (22,00-06.00 Hrs		
S.No	Monitoring Station	Date	Min. Max. Avg. Min. 2.25 44.8 46.5 45.7 36.4 2.25 42.4 44.6 43.5 34.6 2.25 48.4 50.2 49.3 40.3	B Standard- 45				
	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	26.02.25	44.8	46.5	45.7	36.4	38.6	37.5
2	New Village Colony, Jamadoba	26.02.25	42.4	44.6	43.5	34.6	36.8	35.7
3	6&7 Pits Kalimandir Colony	26.02.25	48.4	50.2	49.3	40.3	42.5	41.4
4	Digwadih 10 No. Colony	26.02.25	45.6	47.7	46.7	37.5	39.8	38.7

	V	D. A.	Day (0	6.00 - 22.	00 Hrs.)	Night ((22.00-06.	00 Hrs)
S.No	Monitoring Station	Date	CPCB Standard- 75		CPCB Standard- 7			
	Industrial Area (Core Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	26.02.25	56.5	59.7	58.1	48.3	51.5	49.9
2	2 Pit Top Kalimandir, Jamadoba	26.02.25	52.2	55.1	53.7	44.5	47.7	46.1
3	Weigh Bridge, Digwadih	26.02.25	50.4	52.6	51.5	42.2	44.5	43.4
4	Canteen Complex, Digwadih	26.02.25	48.6	50.4	49.5	40.4	42.7	41.6
5	Head Office Complex, Digwadih	26.02.25	43.2	45.5	44.4	35.5	37.6	36.6
6	Check Post Security Gate, 6&7 Pits	26.02.25	50.1	53.3	51.7	42.3	45.5	43.9
7	Canteen Complex, 6&7 Pits	26.02.25	47.4	49.6	48.5	39.6	41.8	40.7
8	Fan house- Nitrogen Plant, 6&7 Pits	26.02.25	61.7	63.8	62.8	53.4	52.6	53.0
9	Joota Gate, JCPP	26.02.25	59.3	62.5	60.9	51.2	54.4	52.8
10	Main Gate Stores, JCPP	26.02.25	54.6	57.7	56.2	46.4	49.5	48.0
11	Railway Siding Yard, JCPP	26.02.25	52.1	55.3	53.7	44.5	47.7	46.1

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Colliery Head, Jamadoba Coal Washery Sr. Manager, Digwadih Colliery Sr. Manager, 6 & 7 Pits Colliery

Ref: JMB/ ENV/ LAB/ 05/ 149 /25

Dated:

07/04/2025

Re: Ambient Noise Level Report

We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of MARCH'2025. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.) CPCB Standard- 55			Night (22,00-06.00 Hrs) CPCB Standard- 45			
	1		Digwadih 12 No. Colony	24.03.25	42.3	44.6	43.5	34.5	36.7
2	New Village Colony, Jamadoba	24.03.25	43.5	45.8	44.7	35.3	37.5	36.4	
3	6&7 Pits Kalimandir Colony	24.03.25	46.7	48.5	47.6	38.4	40.7	39.6	
4	Digwadih 10 No. Colony	24.03.25	44.5	46.7	45.6	36.7	38.9	37.8	

S.No	Manier Station	Date	Day (06.00 – 22.00 Hrs.) CPCB Standard- 75			Night (22.00-06.00 Hrs)		
	Monitoring Station					CPCB Standard- 70		
	Industrial Area (Core Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	24.03.25	57.2	60.5	58.9	49.4	52.7	51.1
2	2 Pit Top Kalimandir, Jamadoba	24.03.25	51.4	54.7	53.1	43.1	46.3	44.7
3	Weigh Bridge, Digwadih	24.03.25	49.8	51.6	50.7	41.5	43.7	42.6
4	Canteen Complex, Digwadih	24.03.25	48.3	50.2	49.3	40.4	42.5	41.5
5	Head Office Complex, Digwadih	24.03.25	42.6	44.7	43.7	34.3	36.6	35.5
6	Check Post Security Gate, 6&7 Pits	24.03.25	50.3	52.5	51.4	42.5	44.8	43.7
7	Canteen Complex, 6&7 Pits	24.03.25	48.2	50.1	49.2	40.1	42.4	41.3
8	Fan house-Nitrogen Plant, 6&7 Pits	24.03.25	58.4	60.3	59.4	50.6	52.7	51.7
9	Joota Gate, JCPP .	24.03.25	60.2	63.5	61.9	52.4	55.6	54.0
10	Main Gate Stores, JCPP	24.03.25	52.7	55.6	54.2	44.5	47.8	46.2
11	Railway Siding Yard, JCPP	24.03.25	52.4	54.7	53.6	44.2	46.5	45.4

Analysis: All the values are within permissible limit.

This is for your information please.

Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 681 / 2024

Dated -

12/1/ /2024

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of OCTOBER'2024.
The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease	
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l	
1	2 Pit Jamadoba Colliery	24.10.24	05:05 PM	30	7.7	20	773	2.4	68	0.5	
2	3 Pit Jamadoba Colliery	24.10.24	04:50 PM	31	7.2	16	793	2.5	56	0.3	
3	2 Incline Jamadoba Colliery	24.10,24	04:15 PM	No Discharge							
4	6 & 7 Pits Colliery	24.10.24	02:20 PM	30	7.3	14	724	2.8	92	0	
5	Digwadih Colliery	24.10.24	02:40 PM	No Discharge							

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Area Manager (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 680 / 2024

Dated -

12/11 /2024

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of OCTOBER'2024.

The results are as given below:

e M	Location	Sampling	Sampling	Temp	рН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	STP, Jmb. Canteen- Inlet	24.10.24	12:30 PM	27	7.8	145	1024	31.8	290	2.5
2	STP, Jmb. Canteen- Outlet	24.10.24	12:35 PM	26	7.5	24	726	7.0	84	0.7
3	STP, JCPP Canteen- Inlet	24.10.24	01:40 PM	27	7.9	137	924	32.9	306	3.7
4	STP, JCPP Canteen- Outlet	24.10.24	01:45 PM	26	7.6	20	654	5.2	70	0.4
5	STP, Railway Colony- Inlet	24.10.24	03:45 PM	28	8.4	178	1067	34.8	319	3.1
6	STP, Railway Colony-Outlet	24.10.24	03;50 PM	27	8.1	36	953	6.9	52	1.4
7	STP, Digwadih 12 No. Officer's colony-Inlet	24.10.24	03:15 PM	27	8.0	117	921	33.7	284	2.9
8	STP, Digwadih 12 No. Officer's colony- Outlet	24.10,24	03:20 PM	26	7,7	39	637	4.6	102	1.3
9	STP,Digwadih 12 No. Supervisor flat — Inlet	24.10.24	02:55 PM	27	7.8	122	974	29.8	332	3.2
10	STP,Digwadih 12 No. Supervisor flat -Outlet	24.10.24	03:00 PM	26	7.6	18	735	6.2	64	0.9

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Area Manager (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 682 / 2024

Dated -

12/1/ /2024

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of OCTOBER'2024. The results are as given below:

	Location	Sampling	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TCH- Inlet	24.10.24	02:00 PM	27	8.3	98	742	28.2	260	1.5
2	ETP, TCH- Outlet	24,10.24	02:05 PM	26	8.1	19	675	6.4	52	0.3
3	ETP, Garage- Inlet	24.10.24	12:45 PM	27	8.2	161	972	31.2	326	3.8
4	ETP, Garage- Outlet	24.10.24	12:50 PM	26	7.8	34	816	7.2	94	1.6
5	Final Settling Pond JCPP	24,10.24	04:35 PM				Dry Pond			

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Area Manager (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 766 / 2024

Dated -

09/12 /2024

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of NOVEMBER*2024. The results are as given below:

Location	Sampling	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
ETP, TCH- Inlet	22.11.24	12:25 PM	28	8.4	116	736	27.8	294	1.8
ETP, TCH- Outlet	22.11.24	12:30 PM	27	8.2	26	658	5.2	48	0.7
ETP, Garage- Inlet	22.11.24	01:30 PM	27	8.1	139	928	29.1	316	4.1
ETP, Garage- Outlet	22.11.24	01:35 PM	26	7.9	27	821	6.9	102	1.7
Final Settling Pond JCPP	22.11.24	09:55 AM				Dry Pond			
	(Final Discharge Point) ETP, TCH- Inlet ETP, TCH- Outlet ETP, Garage- Inlet ETP, Garage- Outlet	(Final Discharge Point) ETP, TCH- Inlet ETP, TCH- Outlet ETP, TCH- Outlet 22.11.24 ETP, Garage- Inlet ETP, Garage- Outlet 22.11.24	(Final Discharge Point) Date Time ETP, TCH- Inlet 22.11.24 12:25 PM ETP, TCH- Outlet 22.11.24 12:30 PM ETP, Garage- Inlet 22.11.24 01:30 PM ETP, Garage- Outlet 22.11.24 01:35 PM	Contain	Contain	Contain	Company Comp	Location (Final Discharge Point) Sampling Date Sampling Time <40°C 5.5 - 9.0 100 mg/l mg/l 30 mg/l	Company Comp

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

(Ponshet

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 768 / 2024

Dated -

09 /12 /2024

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of NOVEMBER'202-The results are as given below:

S. No	Location (Final Discharge Point)	Sampling	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
0.140	(Mine's Water)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	22.11.24	09:25 AM			No	Discharge			
2	3 Pit Jamadoba Colliery	22.11.24	09:40 AM	30	7.5	23	806	2.9	68	0.6
3	2 Incline Jamadoba Colliery	22.11.24	10:15 AM	*		No	Discharg	e		
4	6 & 7 Pits Colliery	22.11.24	12:10 PM	31	7.7	32	789	2.6	74	0.4
5	Digwadih Colliery	22.11.24	11:50 AM			No	Discharge			

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 767 / 2024 Dated - 09 / 12 / 2024

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of NOVEMBER'2024 The results are as given below:

0.31-	Location	Sampling	Sampling	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	STP, Jmb. Canteen- Inlet	22.11.24	01:10 PM	27	8.0	137	916	34.6	316	2.6
2	STP, Jmb. Canteen- Outlet	22.11.24	01:15 PM	26	7.7	31	694	6.9	72	0.5
3	STP, JCPP Canteen- Inlet	22.11.24	12:50 PM	27	8.1	126	896	33.1	294	3.4
4	STP, JCPP Canteen- Outlet	22.11.24	12:55 PM	26	7.8	34	672	6.2	108	0.6
5	STP, Railway Colony- Inlet	22,11.24	10:35 AM	28	8.2	156	1025	33.2	332	2.9
6	STP, Railway Colony-Outlet	22.11.24	10:40 AM	27	8.0	27	876	7.1	85	1.3
7	STP, Digwadih 12 No. Officer's colony-Inlet	22.11.24	11:05 AM	28	8.1	124	936	34.1	310	3.2
8	STP, Digwadih 12 No. Officer's colony- Outlet	22.11.24	11:10 AM	27	7.8	21	716	5.4	54	1.0
9	STP,Digwadih 12 No. Supervisor flat – Inlet	22.11.24	11:25 AM	27	8.0	167	963	32.5	296	3.5
10	STP,Digwadih 12 No. Supervisor flat -Outlet	22.11.24	11:30 AM	26	7.7	26	769	5.8	78	1.2

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Well Water Quality Report of Jamadoba Group for the month of NOVEMBER'2024

JAMADOBA GROUP

S.No	Date	Location	Time	Depth in meter	pН	Electrical Conductivity µS/m
1	22.11.24	Purnadih (Jorapokhar)	01:15 PM	4.13	7.3	1243
2	22.11.24	Bhowra 13 No	12:55 PM	1.27	7.4	1014
3	22.11.24	Mohalbani Basti	02:25 PM	2.13	7.3	1041
4	22.11.24	Digwadih 10 No F & J	12:10 PM	1.52	7.1	1639
5	22.11.24	Kalimela Shivmandir	11:05 AM	0.98	7.2	917
6	22.11.24	Kalimela Kalimandir	11:20 AM	3.13	7.5	1358
7	22.11.24	Lower Dungari	10:45 AM	3.67	7.3	725
8	22.11.24	Upper Dungari	10:25 AM	1.72	7.2	756
9	22.11.24	Pattia Basti	10:00 AM	3.48	7.0	894
10	22.11.24	Kenduadih Basti	09:35 AM	1.32	7.2	972
11	22.11.24	Jorapokhar Kushtand	01:55 PM	3.84	7.4	1637
12	22.11.24	6&7 Pits (Ayodhya Nagri)	11:45 AM	1.76	7.2	1242
13	22.11.24	Jorapokhar Basti Chhattand	12:25 PM	1.13	7.4	1384
14	22.11.24	Jorapokhar Babu Basa	01:30 PM	2.11	7.1	1169

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 2/2 / 2024

Dated -

3/1/2/2024

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of DECEMBER'2024.

The results are as given below:

Location	Sampling	Sampling	Тетр	pН	TSS	TDS	BOD	COD	Oil & Grease
(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
ETP, TCH- Inlet	20.12.24	12:30 PM	26	8-3	164	816	29.1	264	1.4
ETP, TCH- Outlet	20.12.24	12:35 PM	25	8.1	39	786	4.9	54	0.5
ETP, Garage- Inlet	20.12.24	01:35 PM	25	8.3	142	941	30.5	310	3.6
ETP, Garage- Outlet	20.12.24	01:40 PM	24	8.0	32	894	7.1	88	1.6
Final Settling Pond JCPP	20.12.24	09:55 AM				Dry Pond			
	(Final Discharge Point) ETP, TCH- Inlet ETP, TCH- Outlet ETP, Garage- Inlet ETP, Garage- Outlet	(Final Discharge Point) Date ETP, TCH- Inlet 20.12.24 ETP, TCH- Outlet 20.12.24 ETP, Garage- Inlet 20.12.24 ETP, Garage- Outlet 20.12.24	(Final Discharge Point) Date Time ETP, TCH- Inlet 20.12.24 12:30 PM ETP, TCH- Outlet 20.12.24 12:35 PM ETP, Garage- Inlet 20.12.24 01:35 PM ETP, Garage- Outlet 20.12.24 01:40 PM	Location (Final Discharge Point) Sampling Date Time C C	Location (Final Discharge Point) Sampling Time C C C C C C C C C	Location (Final Discharge Point) Sampling Date Time Sampling Time C40°C 5.5 - 9.0 100 mg/l	Location (Final Discharge Point) Sampling Date Time Sampling Time C40°C 5.5 - 9.0 100 mg/l mg/l	Location (Final Discharge Point) Sampling Date Time Sampling Time C40°C 5.5 - 9.0 100 mg/l mg/l mg/l 30 mg/l ETP, TCH- Inlet 20.12.24 12:30 PM 26 8.3 164 816 29.1 ETP, TCH- Outlet 20.12.24 12:35 PM 25 8.1 39 786 4.9 ETP, Garage- Inlet 20.12.24 01:35 PM 25 8.3 142 941 30.5 ETP, Garage- Outlet 20.12.24 01:40 PM 24 8.0 32 894 7.1	Location (Final Discharge Point) Sampling Date Time C40°C 5.5 - 9.0 100 mg/l mg/l mg/l mg/l 250 mg/l mg/l 250 mg/l 250 mg/l 250 mg/l 250 mg/l 250 mg/l 250 mg/l 264 20.12.24 12:30 PM 26 8.3 164 816 29.1 264 267 267 268 268 269

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

(Prochat

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 /

/2024

Dated -

/ / 2024

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of DECEMBER'2024.
The results are as given below:

0.31	Location	Sampling	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point) (Mine's Water)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	20.12.24	09:30 AM			No	Discharge	:		
2	3 Pit Jamadoba Colliery	20.12.24	09:45 AM	32	7.7	36	837	3.4	42	0.9
3	2 Incline Jamadoba Colliery	20.12.24	10:20 AM	•		No	Discharg	e		
4	6 & 7 Pits Colliery	20.12.24	12:15 PM	30	7.5	21	912	2.8	68	0.8
5	Digwadih Colliery	20.12.24	11:55 AM			No	Discharge			

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 2/3 / 2024

Dated -

3/1/2/2024

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of DECEMBER'2024
The results are as given below:

S. No	Location	Sampling	Sampling	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
5, 190	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	STP, Jmb. Canteen- Inlet	20.12.24	01:15 PM	25	7.9	126	924	35.7	338	2.9
2	STP, Jmb. Canteen- Outlet	20.12.24	01:20 PM	24	7.6	34	810	4.8	65	0.9
3	STP, JCPP Canteen- Inlet	20.12.24	12:55 PM	25	8.0	135	873	32.4	284	3.5
4	STP, JCPP Canteen- Outlet	20.12.24	01:00 PM	24	7.5	29	712	6.4	72	0.8
5	STP, Railway Colony- Inlet	20.12.24	10:40 AM	26	8.1	143	987	30.1	294	3.5
6	STP, Railway Colony-Outlet	20.12.24	10:45 AM	25	7.9	22	855	5.2	87	1.0
7	STP, Digwadih 12 No. Officer's colony-Inlet	20.12.24	11:10 AM	26	8.0	167	987	36.4	316	3.7
8	STP, Digwadih 12 No. Officer's colony- Outlet	20.12.24	11:15 AM	25	7.7	36	845	5.9	79	0.8
9	STP,Digwadih 12 No. Supervisor flat — Inlet	20.12.24	11:30 AM	25	8.2	128	1016	34.0	284	3.7
10	STP,Digwadih 12 No. Supervisor flat -Outlet	20.12.24	11:35 AM	24	7.8	31	910	7.2	90	0.9

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 31 / 2025

Dated -

31/01/2025

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of JANUARY'2025. The results are as given below:

	Location	Sampling	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TCH- Inlet	13.01.25	10:45 AM	27	8.2	108	824	28.6	276	1.6
2	ETP, TCH- Outlet	13.01.25	10:50 AM	26	8	32	774	5.1	72	0.4
3	ETP, Garage- Inlet	13.01.25	01:20 PM	26	8.1	135	976	31.3	284	. 3.8
4	ETP, Garage- Outlet	13.01.25	01:25 PM	25	7.9	29	872	6.8	76	1.2
5	Final Settling Pond JCPP	13.01.25	09:50 AM				Dry Pond			

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 30 / 2025

Dated -

31/01/2025

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of JANUARY'2025. The results are as given below:

o 21	Location	Sampling	Sampling	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point) (Mine's Water)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	13.01.25	09:20 AM			No	Discharge			
2	3 Pit Jamadoba Colliery	13.01.25	09:35 AM	32	7.6	23	796	3.2	72	0.7
3	2 Incline Jamadoba Colliery	13.01.25	10:05 AM	-		No	Discharge			
4	6 & 7 Pits Colliery	13.01.25	11:10 AM	30	7.7	21	874	2.5	62	0.5
5	Digwadih Colliery	13.01.25	12:15 PM	32	7.8	36	916	2.7	80	0

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 29 / 2025 Dated - 31 / 01 / 2025

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of JANUARY'2025. The results are as given below:

S. No	Location	Sampling	Sampling	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
5. NO	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	STP, Jmb. Canteen- Inlet	13.01.25	01:05 PM	26	8.1	122	918	34.8	332	3.1
2	STP, Jmb. Canteen- Outlet	13.01.25	01:10 PM	25	7.8	25	779	4.5	84	0.7
3	STP, JCPP Canteen- Inlet	13.01.25	12:40 PM	26	7.9	164	857	31.2	296	3.2
4	STP, JCPP Canteen- Outlet	13.01.25	12:45 PM	25	7.6	26	772	5.7	102	0.3
5	STP, Railway Colony- Inlet	13.01.25	10:25 AM	27	8.3	128	971	32.2	319	3.8
6	STP, Railway Colony-Outlet	13.01.25	10:30 AM	26	8.0	36	832	5.8	98	1,2
7	STP, Digwadih 12 No. Officer's colony-Inlet	13.01.25	11:30 AM	27	8.0	141	974	34.2	260	3.5
8	STP, Digwadih 12 No. Officer's colony- Outlet	13.01.25	11:35 AM	26	7.6	34	836	5.7	62	0.2
9	STP,Digwadih 12 No. Supervisor flat – Inlet	13.01.25	11:50 AM	26	8.1	152	987	33.6	324	3.8
10	STP,Digwadih 12 No. Supervisor flat -Outlet	13.01.25	11:55 AM	25	7.9	22	896	6.9	106	0.7

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Well Water Quality Report of Jamadoba Group for the month of JANUARY'2025

JAMADOBA GROUP

S.No	Date	Location	Time	Depth in meter	pН	Electrical Conductivity µS/m
1	24.01.25	Purnadih (Jorapokhar)	09:55 AM	4.45	7.2	1236
2	24.01.25	Bhowra 13 No	10:15 AM	1.82	7.3	1024
3	24.01.25	Mohalbani Basti	02:10 PM	2.46	7.4	1082
4	24.01.25	Digwadih 10 No F & J	10:40 AM	1.95	7.5	1726
5	24.01.25	Kalimela Shivmandir	01:30 PM	1.13	7.3	908
6	24.01.25	Kalimela Kalimandir	01:45 PM	3.47	7.4	1339
7	24.01.25	Lower Dungari	01:10 PM	3.85	7.2	762
8	24.01.25	Upper Dungari	12:45 PM	1.98	7.4	768
9	24.01.25	Pattia Basti	12:25 PM	3.72	7.2	905
10	24.01.25	Kenduadih Basti	12:05 PM	1.67	7.3	968
11	24.01.25	Jorapokhar Kushtand	11:20 AM	4.15	7.2	1708
12	24.01.25	6&7 Pits (Ayodhya Nagri)	11:40 AM	1.97	7.3	1216
13	24.01.25	Jorapokhar Basti Chhattand	10:55 AM	1.27	7.2	1372
14	24.01.25	Jorapokhar Babu Basa	09:40 AM	2.21	7.4	1176

Lab. Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 87 / 2025 Dated - 28 / 42 / 2025

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of FEBRUARY'2025. The results are as given below:

	Location	Sampling	ampling Sampling	Temp	pН	TSS	TDS	BOD	250 mg/l 294	Oil & Grease 10 mg/l	
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l			
1	ETP, TCH- Inlet	26.02.25	10:50 AM	28	8.2	135	914	29.8	294	1.3	
2	ETP, TCH- Outlet	26.02.25	10:55 AM	27	7.9	29	846	5.6	72	1.0	
3	ETP, Garage- Inlet	26.02.25	01:25 PM	27	8.0	163	872	30.2	306	3.1	
4	ETP, Garage- Outlet	26.02.25	01:30 PM	26	7.8	33	715	7.2	74	1.7	
5	Final Settling Pond JCPP	26.02.25	09:55 AM	Dry Pond							

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 85 / 2025

Dated - 28/02/2025

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of FEBRUARY'202
The results are as given below:

o 21	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling	Temp	рН	TSS	TDS	BOD	COD	Oil & Grease	
S. No			Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/t	250 mg/l	10 mg/l	
1	2 Pit Jamadoba Colliery	26.02.25	09:25 AM	No Discharge							
2	3 Pit Jamadoba Colliery	26.02.25	09:40 AM	30	7.5	20	896	2.1	86	1.2	
3	2 Incline Jamadoba Colliery	26.02.25	10:10 AM	No Discharge							
4	6 & 7 Pits Colliery	26.02.25	11:15 AM	No Discharge							
5	Digwadih Colliery	26.02.25	12:20 PM	No Discharge							

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 86 / 2025

Dated -

28/02/2025

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of FEBRUARY'2025
The results are as given below:

S. No	Location			Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l 320 98 327 144 336 82 290 68 296	10 mg/l
1	STP, Jmb. Canteen- Inlet	26.02.25	01:10 PM	27	8.0	154	998	36.1	320	5
2	STP, Jmb. Canteen- Outlet	26.02.25	01:15 PM	26	7.6	38	906	8.7	98	1.4
3	STP, JCPP Canteen- Inlet	26.02.25	12:45 PM	28	8.1	132	836	33.4	327	2.9
4	STP, JCPP Canteen- Outlet	26.02.25	12:50 PM	27	7.8	25	760	7.4	144	1.7
5	STP, Railway Colony- Inlet	26.02.25	10:30 AM	28	8.0	167	1036	35.4	336	3.4
6	STP, Railway Colony-Outlet	26.02.25	10:35 AM	27	7.6	41	996	8.9	82	1.5
7	STP, Digwadih 12 No. Officer's colony-Inlet	26.02.25	11:35 AM	28	8.2	127	1016	33.1	290	3.8
8	STP, Digwadih 12 No. Officer's colony- Outlet	26.02.25	11:40 AM	27	8.0	32	910	6.5	68	1.3
9	STP,Digwadih 12 No. Supervisor flat – Inlet	26.02.25	11:55 AM	27	8.2	173	1038	31.9	296	2.9
10	STP,Digwadih 12 No, Supervisor flat -Outlet	26.02.25	12:05 PM	26	7.8	39	987	7.8	84	1.9

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab. Assistant (Environment)

TATA STEEL LIMITED

JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery C.M.O, TCH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 145 / 2025

Dated -

07/04/2025

Sub: ETP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of MARCH'2025. The results are as given below:

	Location	Sampling	Sampling	Тетр	рН	TSS	TDS	BOD	COD	Oil & Grease 10 mg/l	
S. No	(Final Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l		
1	ETP, TCH- Inlet	24.03.25	02:00 PM	27	8.3	147	935	31.7	286	2.1	
2	ETP, TCH- Outlet	24.03.25	02:05 PM	26	8.0	39	822	5.2	98	1.2	
3	ETP, Garage- Inlet	24.03.25	12:45 PM	27	8.1	163	867	29.5	316	3.5	
4	ETP, Garage- Outlet	24.03.25	12:50 PM	26	7.9	24	754	6.8	106	1.3	
5	Final Settling Pond JCPP	24.03.25	04:35 PM	Dry Pond							
	4 17 1								_		

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

TATA STEEL LIMITED JHARIA DIVISION

Area Manager, Jamadoba Colliery Area Manager, Digwadih Colliery Area Manager, 6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 147 / 2025

Dated -

07/04/2025

Sub: MINE WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of MARCH'2025. The results are as given below:

	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease	
S. No			Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l	
1	2 Pit Jamadoba Collicry	24.03.25	05.05 PM	No Discharge							
2	3 Pit Jamadoba Colliery	24.03.25	04:50 PM	32	7.6	26	874	2.3	84	1.4	
3	2 Incline Jamadoba Colliery	24.03.25	04:15 PM	3 _ 1	No Discharge						
4	6 & 7 Pits Colliery	24.03.25	02:20 PM		No Discharge						
5	Digwadih Colliery	24.03.25	02:40 PM	No Discharge							

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report (Period-October'24 to March'25)

Annexure- II

TATA STEEL LIMITED JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant Area Manager Jamadoba Colliery Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 146 / 2025 Dated - 07/04 / 2025

Sub: STP WATER ANALYSIS REPORT.

We wish to inform you that Trade Effluent Sampling was carried out in JAMADOBA GROUP in the month of MARCH'2025. The results are as given below:

2322	Location	Sampling	oling Sampling	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Pinal Discharge Point)	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/1	250 mg/l	10 mg/l
1	STP, Jmb. Canteen- Inlet	24.03.25	12:30 PM	28	7.9	133	954	35.2	316	3.9
2	STP, Jmb. Canteen- Outlet	24.03.25	12:35 PM	27	7.5	28	872	7.2	116	0.8
3	STP, JCPP Canteen- Inlet	24.03.25	01:40 PM	28	8.0	143	824	35.1	298	3.5
4	STP, JCPP Canteen- Outlet	24.03.25	01:45 PM	27	7.7	31	728	6.9	112	1.4
5	STP, Railway Colony- Inlet	24.03.25	03:45 PM	27	8.1	141	936	36.8	328	3.6
6	STP, Railway Colony-Outlet	24.03.25	03:50 PM	26	7.7	21	872	8.2	86	1.0
7	STP, Digwadih 12 No. Officer's colony-Inlet	24.03.25	03:15 PM	27	8.0	164	974	35.5	312	2.9
8	STP, Digwadih 12 No. Officer's colony- Outlet	24.03.25	03:20 PM	26	7.8	27	873	6.4	114	1.5
9	STP,Digwadih 12 No. Supervisor flat —Inlet	24.03.25	02:55 PM	27	7.9	1,35	1024	33.1	260	2.5
10	STP,Digwadih 12 No. Supervisor flat -Outlet	24.03.25	03:00 PM	26	7.6	34	946	7.3	94	1.2

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Emphofe . Lab.Assistant (Environment) Manager (Environment)

ENVIRONMENT CELL LABORATORY, JAMADOBA AUTHORIZED VIDE LETTER NO. B = 3922 DATED=30.08.2012 BY JHARKHAND STATE POLLUTION CONTROL BOARD, RANCHI.