

The Deputy Director General of Forests (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/ 627/36/ 253 /2025 May 28th, 2025

Ref.: Environmental Clearance letter no. - J-11015/373/2010-IA .II (M) dated-3rd March 2014.

SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEFCC, New Delhi to 6 & 7 Pits 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-11015/373/2010-IA.II(M) dated-3rd March 2014 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 (Rlanning)

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

TATA STEEL LIMITED

5/31/25, 4:38 PM Home Page

Your (Half Yearly Compliance Report) has been Submitted with following details			
Proposal No	IA/JH/CMIN/8775/2010		
Compliance ID	127971166		
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127971166/2025		
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		
No. CHE LEW THE COLOR HOLD CO. OF HEADWHAND THAT OF THE DESCRIPTION OF			

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

Acknowledgement

Proposal Name	Expansion of 6 & 7 Pits colliery (from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha) of M/s Tata Steel Ltd., Village Jamadoba, tehsil Jharia, dist. Dhanbad, Jharkhand
Name of Entity / Corporate Office	Tata Steel Ltd.
Village(s)	N/A
District	DHANDAD

District DHANBAD

Proposal No.	IA/JH/CMIN/8775/2010
Plot / Survey / Khasra No.	N/A
State	JHARKHAND
MoEF File No.	J-11015/373/2010-IA.II (M)

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

Submission for the period Remarks (if any)

of October-2024 to March-

2025

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	32.744	32.744
Revenue Land	42.027	42.027
Forest	0	0
Others	93.349	93.349
Total	168.12	168.12

Production Capacity

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

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Human Health Environment	Adequate measures be taken so as to prevent and control of manifestation of health problems due to coal mining activities.

PPs Submission: Complied

The production from the colliery has been discontinued from January 2021. No coal mining activities envisaged. However, the following control measures were implemented - i. Water spraying in underground workings. ii. Water sprinkling arrangements at all coal transfer points in underground. iii. Trucks carrying sand properly covered as well as optimally loaded. iv. Underground workings of the mine well ventilated meeting the required standards prescribed by DGMS. Moreover, Plantation within the mine lease area is being done.

Date: 30/05/2025

2 GREENBELT Adequate green belt shall be provided around coal handling and other areas.

PPs Submission: Complied

Green belt has been developed around the CHP of washery and mass plantation activities are taking place every year in the leasehold area. Green belt development plan attached as Annexure-I.

Date: 30/05/2025

AIR QUALITY

3 MONITORING AND Transportation of PRESERVATION

Transportation of coal shall be by mechanically covered trucks.

PPs Submission: Complied

The production from the colliery has discontinued from January 2021. Also, no coal transportation takes place by trucks. All coal is transported to the washery via underground conveyor belt system.

Date: 26/05/2025

4 AIR QUALITY
4 MONITORING AND
PRESERVATION

No dumping of fly ash in low lying areas and in mine voids are permitted.

PPs Submission: Complied

It is not applicable as there is no generation of fly-ash due to closure of our power plant since April 2015.

Date: 26/05/2025

5 WASTE MANAGEMENT

Utmost care be taken to prevent spillage of sand during transportation of sand.

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

6 MISCELLANEOUS

No use of fly ash with sand will take place for stowing in underground mines.

PPs Submission: Complied

Office Memorandum F.No. 22-13/2019-IA.III dated 28th Aug 2019 by MOEFCC is being followed.

Date: 26/05/2025

7 Statutory compliance The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.

		ontinued from January 2021. The EC capacity is for 0.6 ction for 6 and 7 Pits Colliery is well below the limit.	Date: 26/05/2025
8	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of subsidence movement on the and around the working area and impact on natural drawater bodies, vegetation, structure, roads, and surroun continued till movement ceases completely. In case of any high rate of subsidence movement, appropriate efficience tive measures shall be taken to avoid loss of life Cracks shall be effectively plugged with ballast and classifications.	ainage pattern dings shall be observation of fective and material.
Regula Dhanba underg	ad. According to the subsidence rep	by Central Institute for Mining and Fuel Research, ports, the impact of subsidence is negligible since the reat depth and proper filling of voids through sand stowing	Date: 26/05/2025
9	Statutory compliance	If subsidence is found exceeding the permitted limit landowners shall be adequately compensated with mu of the landowners.	
	Submission: Complied be strictly followed.		Date: 26/05/2025
10	MINING PLAN	Mining shall be carried out as per statuette at a safe the river/nallah flowing adjacent to the lease boundary	
		und 11 (01) manuar 110 (11mg augustum to und 10ast countair)	·
The Dathis is a monito accredi	an underground mine, no impact on oring on upstream and downstream or	erial distance of 2.5 kms from the lease boundary. Since a the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL for the the October-24 to March-25 period has been	Date:
The Dathis is a monito accredi	amodar River flows at an approx. as an underground mine, no impact on oring on upstream and downstream of ited laboratory. Monitoring report for	erial distance of 2.5 kms from the lease boundary. Since the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL	Date: 26/05/2025
The Da this is a monito accredi attache 11 PPs 9 Impact reports	amodar River flows at an approx. ac an underground mine, no impact on oring on upstream and downstream of ited laboratory. Monitoring report for as Annexure-II. GREENBELT Submission: Complied to on land by subsidence has been for	erial distance of 2.5 kms from the lease boundary. Since the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL for the the October-24 to March-25 period has been High root density tree species shall be selected and p	Date: 26/05/2025 planted over
The Da this is a monito accredi attache 11 PPs 9 Impact reports	amodar River flows at an approx. ac an underground mine, no impact on oring on upstream and downstream of ited laboratory. Monitoring report for as Annexure-II. GREENBELT Submission: Complied to on land by subsidence has been for a prepared by CIMFR, Dhanbad. The	erial distance of 2.5 kms from the lease boundary. Since a the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL for the the October-24 to March-25 period has been High root density tree species shall be selected and pareas likely to be affected by subsidence.	Date: 26/05/2025 Date: 26/05/2025 The agriculturation the build be carried
The Da this is a monito accredi attache 11 PPs 9 Impact reports under a	amodar River flows at an approx. ac an underground mine, no impact on oring on upstream and downstream of ited laboratory. Monitoring report for as Annexure-II. GREENBELT Submission: Complied to on land by subsidence has been for a prepared by CIMFR, Dhanbad. The annual plantation program.	erial distance of 2.5 kms from the lease boundary. Since the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL for the the October-24 to March-25 period has been High root density tree species shall be selected and pareas likely to be affected by subsidence. und to be negligible as per the subsidence monitoring tough, high root density trees of native species are covered Coal Extraction shall also be optimised in areas whe production is continuing. Some pillars shall be left bel agricultural land. No depillaring & coal extraction shall	Date: 26/05/2025 Date: 26/05/2025 Date: 26/05/2025 Date: agriculturation the build be carrieder bodies. Date:
The Da this is a monito accredi attache 11 PPs 9 Impact reports under a	amodar River flows at an approx. ac an underground mine, no impact on oring on upstream and downstream of ited laboratory. Monitoring report for as Annexure-II. GREENBELT Submission: Complied to on land by subsidence has been for a prepared by CIMFR, Dhanbad. The annual plantation program. MISCELLANEOUS Submission: Complied	erial distance of 2.5 kms from the lease boundary. Since the surface water bodies is expected. Though, regular of Damodar river is performed by own as well as NABL for the the October-24 to March-25 period has been High root density tree species shall be selected and pareas likely to be affected by subsidence. und to be negligible as per the subsidence monitoring tough, high root density trees of native species are covered Coal Extraction shall also be optimised in areas whe production is continuing. Some pillars shall be left bel agricultural land. No depillaring & coal extraction shall	Date: 26/05/2025 Date: 26/05/2025 Date: 26/05/2025 Date: 26/05/2025 Date: 26/05/2025

statuto	ory limit.		26/05/2025
14	GREENBELT	3-tier plantation should be developed 2 km stretch of mine using native species.	road from the
Planta	Submission: Complied tion along the stretches of road has be under our green belt development p	een done with native species and it is a continuous programme	Date: 26/05/2025
15	WATER QUALITY MONITORING AND PRESERVATION	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.	city shall be ne peak sudde the mine sites
Garlan surface Office	e runoff. Details of the same are as for Area 850 m 2.5 m 1 m 1 in 75 2. Ma	nt already exist around the colliery area to channelize the bllows: S. No. Location Length Width Height Gradient 1. agazine Area 800 m 2.5 m 1 m 1 in 200 3. PH area 550 m m 1 m 1 in 60 5. Brick field area 850 m 1.5 m 1 m 1 in	Date: 26/05/2025
16	AIR QUALITY MONITORING AND PRESERVATION	Water sprinkling system shall be provided to check f emissions from loading operations, conveyor system, h transfer points, etc. Major approach roads shall be blac properly maintained.	naulage roads
	Submission: Complied		_
is pres	roduction from the colliery has discor- tent in the underground mines at all tr	ntinued from January 2021. Water spraying arrangement ransfer points. Water spraying via tankers is done on sand s have been black-topped and maintained regularly.	Date: 26/05/2025
is pres transpo	roduction from the colliery has discor- tion the underground mines at all tr	ransfer points. Water spraying via tankers is done on sand	26/05/2025 twork of no surface face to transport shal
is pres transpo 17 PPs The pr	roduction from the colliery has discontent in the underground mines at all troortation routes. Major approach roads MISCELLANEOUS Submission: Complied	Coal transportation to washery shall be through a net underground belt conveyor system and hence there is r transportation of coal. Transportation of men from surfunderground and back shall be via shaft. The material be through the shaft and by means of haulage in the untinued from January 2021. However, the transportation	26/05/2025 twork of no surface face to transport shal
is pres transpo 17 PPs The pr	roduction from the colliery has discontent in the underground mines at all troortation routes. Major approach roads MISCELLANEOUS Submission: Complied roduction from the colliery has discontent in the underground mines at all troortation routes.	Coal transportation to washery shall be through a net underground belt conveyor system and hence there is r transportation of coal. Transportation of men from surfunderground and back shall be via shaft. The material be through the shaft and by means of haulage in the untinued from January 2021. However, the transportation	26/05/2025 Ework of no surface face to transport shall derground. Date: 26/05/2025 d implemente as under greeing ML in
PPs The pr of coal PPs Tree p side, ir employrespon	Submission: Complied GREENBELT Submission: Complied GREENBELT Submission: Complied of control of the colliery has discord the standard through the underground belt colliery has discord through the underground through the underground through the underground through the underground through the u	Coal transportation to washery shall be through a net underground belt conveyor system and hence there is r transportation of coal. Transportation of men from surfunderground and back shall be via shaft. The material be through the shaft and by means of haulage in the underground system. A progressive afforestation plan shall be prepared an over the mine lease area acquired and shall include are belt development, areas along roads, infrastructure, along boundary and township etc., by planting native species	26/05/2025 Ework of no surface face to transport shall derground. Date: 26/05/2025 d implemente as under greeing ML sin

construction of new piezometers. The monitoring for quantity shall be **PRESERVATION** 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 Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. Date: **PPs Submission:** Complied 26/05/2025 The monitoring of groundwater level and quality is done four times a year. The groundwater quality report and groundwater level are provided in Annexure-II. WATER QUALITY Acid Water Treatment Plant, volume of water to be treated and 20 MONITORING AND disposal of brine should be provided. **PRESERVATION** Date: PPs Submission: Complied 26/05/2025 6 and 7 Pits Colliery is an underground mine. No acid mine drainage occur. WATER QUALITY Mine discharge water outside the ML shall be monitored, 21 MONITORING AND 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. The Company shall put up artificial groundwater recharge measures WATER QUALITY for augmentation of groundwater resource, in case water table shows MONITORING AND a declining trend. The project authorities shall meet water 22 **PRESERVATION** requirement of nearby village(s) in case the village wells go dry due to dewatering of mine. PPs Submission: Complied 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 Date: porosity to hold the underground water thus helping aquifer to retain the underground water. Further, 26/05/2025 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. 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 23 **Human Health Environment** occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS. **PPs Submission:** Complied The periodic health check-up of the workers is done regularly by our Occupational Health Date: Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) 26/05/2025 centre approved by DGMS where 20 percentage of the workers identified from workforce engaged in active mining operations are subjected to full medical check including hearing impairment check 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. The mining in the existing mines should be phased out after expiry 24 LAND RECLAMATION of the current mining lease and after reclamation of mined over area. The operating mines may be analysed and monitored for compliance

		of conditions, bearing with movement of wildlife and uthey are closed/phased out.	untii such time
	ubmission: Complied applicable in our case.		Date: 26/05/2025
25	Corporate Environmental Responsibility	Project specific CSR for an amount of Rs5/Tonne of production, as adjusted as per the annual inflation, sho for the CSR activities undertaken and the progress made be uploaded annually on the company website. Monitorimpacts of activities under CSR shall be carried out per	uld be provide de thereon sha oring of the
The pro Once the implem 20.50 consistence washering other are zone of work is experts 50 plus estimated divided uploade	the CSR budget for company is fixed, a centing the CSR activities at our Jharia rores. CSR data submitted is for Jharia es. Jamadoba Washery, Digwadih Col and fall under same leasehold area i.e. Jall above units overlap to each other a going on. Therefore, we have a centra who are dedicatedly involved in provivillages and municipal wards. Hence, ed. For calculation/statutory reporting into unit wise based on size of leasehold.	company is decided as per the new Company Rules. share of that amount is dedicated and utilized for Division level. The CSR expenditure for FY25 is Rs. Division which comprises all 5 collieries and 2 diery and 6 and 7 Pits Colliery are adjacent to each amadoba group of collieries. The core zone and buffer and in many cases, the villages are same where CSR dibudget for CSR which is managed by a team of ding benefits and improving standard of living in over separate CSR expenditure for individual unit cannot be purpose, the consolidated CSR expenditure can be old area of individual units. The progress report is Internal social audits are carried out regularly to	Date: 31/05/2025
26	MINING PLAN	A Final Mine Closure Plan along with details of Corp be submitted to the Ministry of Environment & Forests advance of final mine closure for approval.	
Mine C closure submitt	cost in escrow account along with exp	istry of Coal, New Delhi. Details on deposition of penditure incurred for progressive closure is regularly nine closure along with details of corpus fund will be	Date: 26/05/2025
27	PUBLIC HEARING	The commitment made by the Proponent to the issue Public Hearing shall be implemented by the Proponent	
The cor Roads I are don requirer network tanks (c	have been maintained in the colliery and e every year. All the ash dumps have be ment. Laying of drinking water pipeling of more than 22000 metres of pipeling.	has been taken up and are being addressed gradually. In all along sand transportation routes. Subsidence studies been reclaimed. Village ponds are cleaned as per use network has been extended to more villages. A use connection has been established along with 33 water are regularly organized by TSRDS. Training to SHEs, urious fields.	Date: 26/05/2025
28	Corporate Environmental Responsibility	Corporate Environment Responsibility: a) The Compa well laid down Environment Policy approved by the Directors. b) The Environment Policy shall prescribe f operating process/procedures to bring into focus any infringements/deviation/violation of the environmental norms/conditions. c) The hierarchical system or Admit of the company to deal with environmental issues and compliance with the environmental clearance condition furnished. d) To have proper checks and balances, the	Board of or standard or forest nistrative Ordefor ensuring ns shall be

compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

PPs Submission: Complied

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, 6 and 7 Pits 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: 30/05/2025

General Conditions

Sr.No.	Condition Type	Condition Details		
1	MISCELLANEOUS	No change in mining technology and scope of working made without prior approval of the Ministry of Environ Forests.		
		strictly followed. Board and Pillar method is being	Date: 26/05/2025	
2	MISCELLANEOUS	No change in the calendar plan of production for qua mineral coal shall be made.	ntum of	
	abmission: Complied estrictly followed.		Date: 26/05/2025	
Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be 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, etc carried out at least once in six months.				
The Air recogniz	ed lab as well as by our inhouse lab. It does not an independent laboratory (reco	s well as buffer zone is done regularly by NABL Monitoring of heavy metals in ambient air is being ognised by NABL). The results are enclosed as	Date: 26/05/2025	

4 AIR QUALITY
4 MONITORING AND
PRESERVATION

Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.

PPs Submission: Complied

Ambient air quality report (PM10, PM 2.5, SO2 and NOx) for the period from Oct-24 to Mar-25 is attached as Annexure-II. Additionally, third party monitoring is done through a JSPCBC and NABL

Date: 26/05/2025

recognised Laboratory on ambient air quality (PM10, PM 2.5, SO2, NOx, CO, NH3, O3) and heavy metals (As, Ni, Cd and Cr) and results are enclosed as Annexure-II. Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and Noise Monitoring & Prevention 5 drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs. Date: **PPs Submission:** Complied 26/05/2025 Regular noise survey is being conducted in the underground work environment. Workers are provided with ear-plugs/ muffs in high noise areas. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards WATER QUALITY prescribed under GSR 422 (E) dated 19th May 1993 and 31st 6 MONITORING AND December 1993 or as amended from time to time before discharge. **PRESERVATION** Oil and grease trap shall be installed before discharge of workshop effluents. **PPs Submission:** Complied Date: No industrial wastewater is generated in 6 and 7 Pits Colliery premises. There is a central workshop 26/05/2025 and garage in Jamadoba where Effluent Treatment Plant having oil and grease trap facility has been provided. Vehicular emissions shall be kept under control and regularly AIR QUALITY 7 MONITORING AND monitored. Vehicles used for transporting the mineral shall be **PRESERVATION** covered with tarpaulins and optimally loaded. PPs Submission: Complied Date: Only the vehicles having valid PUC certificates are being allowed to operate for sand transportation. 26/05/2025 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. 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 8 Statutory compliance data got analysed through a laboratory recognised under EP Rules, 1986. **PPs Submission:** Complied Date: We have a fully equipped Environment Cell Laboratory with qualified personnel. The monitoring 26/05/2025 and analysis is also done at regular intervals by a JSPCB approved and NABL accredited laboratory. We have also installed a Continuous Ambient Air Quality Monitoring Station at Jamadoba for real time monitoring. AIR OUALITY Personnel working in dusty areas shall wear protective respiratory MONITORING AND devices and they shall also be provided with adequate training and 9 **PRESERVATION** information on safety and health aspects. PPs Submission: Complied Date: 26/05/2025 Persons working in dusty area have been provided with dust masks and have been given awareness training on safety and health aspects, Regular PME (Periodic Medical Examinations) are being done. 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 and records 10 Human Health Environment maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.

The period Department of the D	nent, Tata Central Hospital, Jamado pproved by DGMS where 20 percent in active mining operations are sul- ment check-up, etc. These results are	rs is done regularly by our Occupational Health oba. We have a PME (Periodic Medical Examination) intage of the workers identified from workforce bjected to full medical check-up including hearing a regularly submitted to DGMS as per mines rules. We our contractor workers in Tata central hospital.	Date: 26/05/2025
11	MISCELLANEOUS	A separate environmental management cell with s personnel shall be set up under the control of a Seni will report directly to the Head of the company.	
We have	ubmission: Complied e a separate Environmental Manage mental Cell is directly to General N	ement Cell with qualified personnel. The reporting of Manager of the Division.	Date: 26/05/2025
12	Corporate Environmental Responsibility	The funds earmarked for environmental protection be kept in separate account and shall not be diverted purpose. Year-wise expenditure shall be reported to its Regional Office at Dhanbad.	l for other
The Env	al requirements. The annual enviro	for Environmental protection measures and for complying nmental expenditure for the financial year 2023-24 is Rs.	
13	Statutory compliance	The Project authorities shall advertise at least in to newspapers widely circulated around the project, or be in the vernacular language of the locality concern days of the clearance letter informing that the project accorded environmental clearance and a copy of the available with the State Pollution control Board and at the website of the ministry of Environment & For http://envfor.nic.in.	ne of which shall ned within seven of has been to clearance letter is may also be seen
	ubmission: Complied een complied with.		Date: 30/05/2025
14	Statutory compliance	A copy of the environmental clearance letter shall concerned Panchayat/Zila Parishad, Municipal Corp Local Body and local NGO, if any, from whom any suggestion/representation has been received while p proposal. A copy of the clearance letter shall also be company's website.	oration or Urban processing the
	ubmission: Complied een complied with.		Date: 30/05/2025
15	Statutory compliance	A copy of the clearance letter shall be displayed of the concerned State Pollution Control Board. The E be displayed at the Regional Office, District Industr Collector's Office/Tehsildar's Office for 30 days.	C letter shall also
	ubmission: Complied een complied with.		Date: 26/05/2025
16	Statutory compliance	The clearance letter shall be uploaded on the comp The compliance status of the stipulated EC condition	

PPs Submission: Complied

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 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 in corporate office and on the company's website. PPs Submission: Complied Date: The clearance letter has been uploaded on the companies website. The compliance status (as Half-26/05/2025 yearly compliance report) is being uploaded in companies website once in every six months. The display of information near the mines office has also been done. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions 17 Statutory compliance (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. Date: **PPs Submission:** Complied 26/05/2025 It is being complied. The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project 18 Statutory compliance authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports. Date: **PPs Submission:** Complied 26/05/2025 It will be complied with. The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as 19 Statutory compliance amended 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 Email. **PPs Submission:** Complied Date: The environmental statement for financial year 2023-24 has been submitted to JSPCB vide letter no. 26/05/2025 JMB/ENV/ESSA/05/566/2024 on 27th September 2024 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEFCC by email at ro.ranchimefgov.in. Visit Remarks **Last Site Visit Report Date:** N/A **Additional Remarks:** 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.

FHALF YEARLY COMPLIANCE REPORT (PERIOD: OCTOBER'24 – MARCH'25)

6&7 PITS COLLIERY

(CAPACITY: EXPANSION FROM 0.28 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-11015/373/2010-IA.II (M) DATED- 03.03.2014 ISSUED BY GOVT. OF INDIA, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW DELHI.

S. No	. Condition	Compliance Status
Speci	fic Condition	
(i)	Adequate measures be taken so as to prevent and control of manifestation of health problems due to coal mining activities.	•
(ii)	Adequate green belt shall be provided around coal handling and other areas.	
(iii)	Transportation of coal shall be by mechanically covered trucks.	The production from the colliery has been discontinued from January 2021. Also, no coal transportation takes place by trucks. All coal is transported to the washery via underground conveyor belt system.
(iv)	No dumping of fly ash in low lying areas and in mine voids are permitted.	It is not applicable as there is no generation of fly-ash due to closure of our power plant since April'2015.
(v)	Utmost care be taken to prevent spillage of sand during transportation of sand.	1
(vi)	No use of fly ash with sand will take place for stowing in underground mines.	Office Memorandum F.No. 22-13/2019-IA.III dated 28 th Aug'19 by MOEFCC is being followed.
(vii)	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	The production from the colliery has discontinued from January 2021.

		The EC capacity is for 0.6 MTPA raw coal while the raw coal production for 6&7 Pits Colliery is well below the limit.
(viii)	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate 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.	Regular monitoring of subsidence is done by Central Institute for Mining and Fuel Research, Dhanbad. According to the subsidence reports, the impact of subsidence is negligible since the underground mine workings are now at great depth and proper filling of voids through sand stowing is being done.
(ix)	If subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	It will be strictly followed.
(x)	Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.	The Damodar River flows at an approx. aerial distance of 2.5 kms from the lease boundary. Since this is an underground mine, no impact on the surface water bodies is expected. Though, regular monitoring on upstream and downstream of Damodar river is performed by own as well as NABL accredited laboratory. Monitoring report for the the October'24 to March'25 period has been attached as Annexure-II .
(xi)	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. Though, high root density trees of native species are covered under annual plantation program.
(xii)	Coal Extraction shall also be optimised 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 is strictly followed.
(xiii)	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 and it is well within under statutory limit.

(xiv)	3-tier plantation should be developed 2 km stretch of road from the mine using native species.	been conti deve	done winuous plopment	rith na proces progra	ative sp s unde amme	pecies au r our g	road has and it is a reen belt
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		alrea chan same	nelize the are as fo	e surf ollows Len gth	and the face run	colliery off. Deta	d gradient y area to ails of the Gradient
	provide adequate retention period to allow proper settling of silt material.	2.	Office Area Magazi	850 m 800	2.5 m	1 m	1 in 75 1 in 200
		3.	ne Area PH area	550 m	2.5 m	1 m	1 in 97
		5.	Jitpur Area Brick field area	550 m 850 m	3.0 m 1.5 m	1 m	1 in 60 1 in 70
(xvi)	Water sprinkling system shall be 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.	Wate unde Wate trans have regu	erground er spraying sportation been larly.	from ing arra mine ng via route black-	January angeme s at al tanker es. Maj topped	2021. nt is pres 1 transfers is done or appro and n	sent in the er points. e on sand ach roads naintained
(xvii)	Coal transportation to washery shall be through a network of underground belt conveyor system and hence there is no surface transportation of coal. Transportation of men from surface to underground and back shall be via shaft. The material transport shall be through the shaft and by means of haulage in the underground.	disco	igh the	from . e trai	January isportat	2021. ion of	liery has coal was conveyor

(xviii)	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 every year.
(xix)	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 Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	The monitoring of groundwater level and quality is done four times a year. The groundwater quality report & groundwater level are provided in Annexure-II .
(xx)	Acid Water Treatment Plant, volume of water to be treated and disposal of brine should be provided.	6&7 Pits Colliery is an underground mine. No acid mine drainage occur.
(xxi)	Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.	There is one mine-water outlet point in the colliery which is regularly monitored by the Environmental Laboratory.
(xxii)	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.	 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
	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.
(xxiii) 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, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.	The periodic health check-up 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 % of the workers identified from workforce engaged in active mining operations are subjected to full medical check including hearing impairment check 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.
(xxiv) The mining in the existing mines should be phased out after expiry of the current mining lease and after reclamation of mined over area. The operating mines may be analysed and monitored for compliance of conditions, bearing with movement of wildlife and until such time they are closed/phased out.	It is not applicable in our case.
Project specific CSR for an amount of Rs5/Tonne of coal production, as adjusted as per the annual inflation, should be provided for the CSR activities undertaken and the progress made thereon shall be uploaded annually on the company website. Monitoring of the impacts of activities under CSR shall be carried out periodically.	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. The CSR expenditure for FY25 is Rs. 20.50 crores. CSR data submitted is for Jharia Division which comprises all 5 collieries and 2 washeries. Jamadoba Washery, Digwadih Colliery and 6&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+ 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.
(xxvi)	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.	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 MoEF&CC 5 years in advance.
(xxvii)	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	The commitment made by project proponent has been taken up and are being addressed gradually. Roads have been maintained in the colliery and along sand transportation routes. Subsidence studies are done every year. All the ash dumps have been reclaimed. Village ponds are cleaned as per requirement. Laying of drinking water pipeline network has been extended to more villages. A network of more than 22000 metres of pipeline connection has been established along with 33 water tanks (capacity of 4500 litres). Health camps are regularly organized by TSRDS. Training to SHEs, women, youth and children are provided in various fields.
(xxviii	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	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.
	deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Moreover, 6&7 Pits Colliery is IMS (Integrated Management System: Quality Management System, Environment Management System and OHSAS) certified

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.

unit addressing all environment aspects, impacts and needs and expectation of interested parties with respect to environment protection.

Ger	neral Conditions:	
(i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	The points mentioned in the EC letter will be strictly followed. Board and Pillar method is being used for mining.
(ii)	No change in the calendar plan of production for quantum of mineral coal 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 PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be 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, etc carried out at least once in six months.	The Air quality monitoring in the core zone as well as buffer zone is done regularly by NABL recognized lab as well as by our inhouse lab. Monitoring of heavy metals in ambient air is being performed by an independent laboratory (recognised by NABL). The results are enclosed as Annexure-II
(iv)	Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	Ambient air quality report (PM10, PM 2.5, SO2 and NOx) for the period from Oct'24 to Mar'25 is attached as Annexure-II . Additionally, third party monitoring is done through a JSPCBC and NABL recognised Laboratory on ambient air quality (PM10, PM 2.5, SO2, NOx, CO, NH3, O3) and heavy metals (As, Ni, Cd and Cr) and results are enclosed as Annexure-II .

(v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Regular noise survey is being conducted in the underground work environment. Workers are provided with ear-plugs/ muffs in high noise areas.
(vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	No industrial wastewater is generated in 6&7 Pits Colliery premises. There is a central workshop and garage in Jamadoba where Effluent Treatment Plant having oil and grease trap facility has been provided.
(vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting 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 approved & NABL accredited laboratory. We have also installed a Continuous Ambient Air Quality Monitoring Station at Jamadoba for real time monitoring.
(ix)	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.	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.
(x)	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 and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	The periodic health check-up 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 % of the workers identified from workforce engaged in active mining operations are subjected to full medical check-up including hearing impairment check-up, etc. These results are regularly

		submitted to DGMS as per mines rules. We are doing similar medical examination for our contractor workers in Tata central hospital.
(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 reported to this Ministry and its Regional Office at Dhanbad.	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 2023-24 is Rs. 360.26 Lakhs
(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 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 .	It has been complied with.
(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 received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	It has been complied with.
(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 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 in corporate office and on the company's website.	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 once in every six months. The display of information near the mine's office has also been done.
(xvii)	The project proponent shall submit six 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.	It is being complied.
(xviii)	The Regional Office of this Ministry 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.	It will be complied with.
(xix)	The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended 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.	The environmental statement for financial year 2023-24 has been submitted to JSPCB vide letter no. JMB/ENV/ESSA/05/566/2024 on 27 th September 2024 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEFCC by email at ro.ranchimef@gov.in.

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	46%		
SI No.	Particulars	Value	NAAQ - CPCB STANDAR			
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/m³	BDL	1 μg/m³			
9.	As, ng/m³	BDL	6 ng/m ³	-		
10.	Ni, ng/m³	BDL	20 ng/m³	1 2		
11.	Benzene, µg/m³	BDL	5 μg/m³	-		
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

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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/m³			
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





Aditi R&D Services, Sindri

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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)
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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/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 Colle

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	30
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/m ³	
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
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/m³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	38.75	60 μg/m ³	30
3.	SO ₂ , μg/m ³	16.38	80 μg/m ³	
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/m³	
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	DS/24-25/NOISI Date of N			/2024	TA	ATA ST	TEEL	LIMITED,	EEL, JAMADOE JAMADOBA GE	ROUP PLANT,	
							DIST	- DHANB	AD (JHARKHA	ND)	
	25/11/2024 1	To 27/11	/2024		A	Avg. mbient peratu (°C)		Average Humidity (%)	Weather Condition	Status of the plant	
	Work Order 4 Date:- 2	7001265 9/05/202			25 49			49	Clear	Running	
				МО	NITC	RING	RESU	LTS	*		
SI. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) Avg. dB(A)		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	AVG. d		MAX	MIN	AVERAC	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	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

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

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	Jamadoba Colliery	Canteen- Jamadoba Washery	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 as CaCO ₃ , mg/l	400	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	535	540	595	280	500	2000	IS 3025 (P- 16):1984
10.	Calcium as CaCO ₃ , mg/l	188	160	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		IS as 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



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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/m³				
3.	SO ₂ , µg/m ³	18.33	80 µg/m³				
4.	NO ₂ , µg/m ³	26.74	80 µg/m³				
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.	Benzoapyrene ng/m ³	BDL 1 ng/m ³					

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/m³			
2.	Particulate Matter (PM _{2.5}), µg/m ³	46.79	60 μg/m³ =			
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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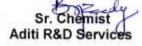
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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

	Ref. No			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 Temperature (°C)		A	verage umidity (%)	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 Time (6 AM to 10 PM) Avg. dB(A)				Night Time (10 PM to 6 AM) Avg. dB(A)			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	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





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

Date: 19/02/2025

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

1. Damodar River Up Stream

2. 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	LUE	Limit as	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/l	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.	tlet Outlet 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,					
Date of Sample Collection	TATA STEEL LIMITED, JAMADOBA GROUP P					
14/02/2025			AD (JHARKHAN			
Date of Testing	Nature of Sampling Collection: ISO - KINETIC 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, TATA STEEL LIMITED, JAMADOBA GROUP PLANT,					
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	Noise level (Ambient star for Industrial Area as per Noise Pollution (Regulation Control) (Amendment) R 2000 notified vide S.O. 10 Dt. 22.11.2020 Limit in dB(A) Leq		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	
Central Workshop Area Jamadoba near DG Set		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 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	STP Outlet- JCPP Cantee n	MoEF&CC Notification for Sewage Treatment Plant	16.2028/8
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			IS as per IS 10500:1991		Test Method
		Jorapokhar Kustand	Bhowra 13 No.	Mohalbani Basti	Lower Dungari	Jama doba 3 No	Desir- able	Permi- ssible	SCHOOL SCHOOL
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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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)

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. G. Crail	Die	Day (06.00 - 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
S.No	Monitoring Station	Date	CPCB Standard- 55 Min. Max. Avg. 4 42.2 44.5 43.4 4 43.5 45.7 44.6	CPC	B Standa	rd- 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- 7		
	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

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:

	Monitoring Station	Doto	Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.00 Hrs		
S.No		Date	CPCB Standard- 55			CPCB Standard- 45		
	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	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)		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:

	Monitoring Station	Date	Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.00 Hrs		
S.No			CPCB Standard- 55			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		Day (0	6.00 - 22.	00 Hrs.)	Night (22.00-06.00 Hrs)		
5.NO			CPCB Standard- 55			CPCB 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)
S.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	Monitoring Station	Date -	Day (0	6.00 - 22.	00 Hrs.)	Night (22,00-06.00 Hr		
S.No			CPCB Standard- 55			CPCB 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- 70		
	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:

CN	Monitoring Station	Date -	Day (0	6.00 - 22	00 Hrs.)	Night (22.00-06.00 Hrs		
S.No			CPCB Standard- 55			CPCB Standard- 45		
	Residential Area (Buffer Zone)		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	24.03.25	42.3	44.6	43.5	34.5	36.7	35.6
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

CNI	Manier Station	Doto	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)	100	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:

	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	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)

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:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH 5.5 - 9.0	TSS 100 mg/l	TDS 2100 mg/l	BOD 30 mg/l	COD 250 mg/l	Oil & Grease 10 mg/l
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)

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:

S. No	Location (Final Discharge Point)	Sampling	oling Sampling Time C40°C 55-90 100 2	TDS	BOD	COD	Oil & Grease			
		Date		< 40°C	5.5 - 9.0		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)

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:

S. No	Location (Final Discharge Point)	Sampling	Sampling	Temp	pН	TSS	TDS	00 30	COD 250 mg/l	Oil & Grease 10 mg/l	
		Date	Time	< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l				
1	ETP, TCH- Inlet	22.11.24	12:25 PM	28	8.4	116	736	27.8	294	1.8	
2	ETP, TCH- Outlet	22.11.24	12:30 PM	27	8.2	26	658	5.2	48	0.7	
3	ETP, Garage- Inlet	22.11.24	01:30 PM	27	8.1	139	928	29.1	316	4.1	
4	ETP, Garage- Outlet	22.11.24	01:35 PM	26	7.9	27	821	6.9	102	1.7	
5	Final Settling Pond JCPP	22.11.24	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 / 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 Time	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
3, 140	(Mine's Water)	Date		< 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	M 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 Time	Тетр	pН	TSS	TDS	BOD	COD	Oil & Grease
(Final Discharge Point)	Date		< 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 264 20.12.24 12:30 PM 26 8.3 164 816 29.1 264 27.1 264 27.1

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

This is for your information and necessary action please.

(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 Time	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point) (Mine's Water)	Date		< 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	M 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 (Final Discharge Paint)	Sampling	Sampling	Temp	pH	TSS	TDS	BOD	COD	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 (Final Disabases Paint)	Sampling	Sampling Time	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date		< 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 Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point) (Mine's Water)	Date		< 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	Sampling Time	Temp	рН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Final Discharge Point)	Date		< 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	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)	Sampling	Sampling	Temp	рН	TSS	TDS	BOD	COD	Oil & Grease
S. No	(Mine's Water)	Date	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	Sampling	Sampling	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	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:

S. No	(Final Discharge Point)	Date	Time	- 4000	(Islandy)	100	2100	- 20		
-45	SERVICE CONTRACTOR IN		Sampling 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	24.03.25	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						

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 Time	Temp	pН	TSS	TDS	BOD	COD	Oil & Grease	
S. No				< 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	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:

S. No	Location (Pinal Discharge Point)	Sampling Date	Sampling Time	Temp	pH 5.5 - 9.0	TSS 100 mg/l	TDS 2100 mg/l	BOD 30 mg/l	COD 250 mg/l	Oil & Grease 10 mg/l
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.