



**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/KOCP/24/135 /2026  
May 25<sup>th</sup>, 2026

Ref.: Environmental Clearance letter no. - J-11015/252/2005-IA. II (M) dated June 22, 2006

**SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEF&CC, New Delhi to Kalimela Open Cast Project, Tata Steel Limited, Dhanbad for the period October-25 to March-2026.**

Dear Sir,

We are enclosing herewith compliance report for the period **October-25 to March-2026** for the EC granted vide letter no.- J-11015/252/2005-IAII(M), Dated-22<sup>nd</sup> June 2006 issued by Ministry of Environment, Forest and Climate Change, New Delhi.

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

Thanking you,

Yours faithfully,

**Head (Planning)  
Jharia Division, Tata Steel Ltd.**

Encl: As above.

Copy to: Member Secretary, CPCB, Eastern Zonal Office, Southend Conclave, 502, 5<sup>th</sup> 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**

Jharia Collieries Jamadoba 828 112 Dhanbad India

Tel 91 326 2320263/2320265/2320267 Fax 91 326 2320268

Regd. Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

**Your (Half Yearly Compliance Report) has been Submitted with following details**

<b>Proposal No</b>	IA/JH/CMIN/8145/2005
<b>Compliance ID</b>	1227594594
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/1227594594/2026
<b>Reporting Year</b>	2026
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	27-05-2026
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	JHARKHAND
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Ranchi
<b>Note:-</b> SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.	

**Half Yearly Compliance Report  
2026  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>	Kalimela OCP Expn.		
<b>Name of Entity / Corporate Office</b>	Tata Steel Ltd.		
<b>Village(s)</b>	N/A		
<b>District</b>	DHANBAD		
<b>Proposal No.</b>	IA/JH/CMIN/8145/2005	<b>Category</b>	Coal Mining
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	JHARKHAND	<b>Entity's PAN</b>	*****2803M
<b>MoEF File No.</b>	J-11015/252/2005-IA.II(M)	<b>Entity name as per PAN</b>	UTSAV KASHYAP

**Compliance Reporting Details**

<b>Reporting Year</b>	2026
<b>Remarks (if any)</b>	Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006 for October-2025 to March-2026.
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b>	Tata Steel Ltd.	
	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	23.67	23.67
Revenue Land	14.37	14.37
Forest	0	0
Others	N/A	N/A
<b>Total</b>	<b>38.04</b>	<b>38.04</b>

**Others Area**

Sr. no	Other Name	Area Granted	Area Actual			
<b>Production Capacity</b>						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Coal	Million Tons per Annum (MTPA)	N/A	0.3	0	
<b>Conditions</b>						
<b>Specific Conditions</b>						
Sr.No.	Condition Type	Condition Details				
1	MISCELLANEOUS	The bund/embankment shall be designed taking into account highest flood level, based on past data, in the Damodar River/ Dungri Jore so as to guard against mine inundation.				
<b>PPs Submission:</b> Complied The embankment exists along Dungri Jore. The HFL (Highest flood line) of Damodar river is way below the surface level of open cast mine hence bunds across the river is not necessary.						Date: 14/05/2026
2	GREENBELT	Topsoil should be stacked properly with proper slope at earmarked sites and should not be kept active and shall be used for reclamation and development of green belt.				
<b>PPs Submission:</b> Complied No further topsoil will be generated as coal mining activity has been ceased. The back filling has been completed, and the topsoil was used for biological reclamation of backfilled and OB area. Glimpses of activities is attached as Annexure -I						Date: 27/05/2026
3	Statutory compliance	All the conditions stipulated by SPCB in their NOC no N-35 dated 31.01.2005 are to be implemented effectively.				
<b>PPs Submission:</b> Complied NOC conditions are being complied with. The open cast operations have ceased, and no raw coal production is taking place. Currently the backfilling of the mine void by the OB has been completed and biological reclamation work is in progress.						Date: 14/05/2026
4	Statutory compliance	OB should be stacked at earmarked external OB dumpsite(s) within ML area and shall be a maximum height of 60m only and consist of benches of 10m each. The ultimate slope of the dump shall not exceed 28°. Backfilling shall begin at the end of 3rd year in the decoaled area. Monitoring and management of existing reclaimed dumpsites should continue until the vegetation becomes self-sustaining. Compliance Status should be submitted to the MOEF and its regional office at Bhubaneswar on yearly basis.				
<b>PPs Submission:</b> Complied OB was stacked within ML area at an area of 12 ha approx. About 24.08 lakh cum of OB generated has been stacked with an approximate height reached of 50 mts. The other conditions are being followed as well. This OB has been used for backfilling the mine pit as part of our mine closure plan. Now the backfilling work has been completed and biological reclamation work is in progress.						Date: 14/05/2026
5	MISCELLANEOUS	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and				

		mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of slit material.
<p><b>PPs Submission:</b> Complied</p> <p>Catch drain and siltation ponds have been constructed to arrest the debris, silt and sediment flows from OB dumps. Collected water had been used for watering mine area, roads and plantation. Total length of catch drains was 2200 mts. Garland drains (about 1790 mts) had been completely constructed around the mine site to ensure runoff water during rainy season is properly drained off. Since mine area has not going to expand, no additional garland drains are required as of now.</p>		<p>Date: 14/05/2026</p>
6	MISCELLANEOUS	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data
<p><b>PPs Submission:</b> Complied</p> <p>Retention wall (or Toe wall) of about 2200 mts. exists around the dump area to check run-off and siltation.</p>		<p>Date: 14/05/2026</p>
7	MISCELLANEOUS	The effluents from the coal washery shall be treated to prescribed norms before discharge from the lease.
<p><b>PPs Submission:</b> Complied</p> <p>There is no separate coal washery for OCP Kalimela. We have a central coal washery for Jamadoba group of mines, about 1.5 kms away, which has a closed water circuit system to maintain zero discharge.</p>		<p>Date: 14/05/2026</p>
8	AIR QUALITY MONITORING AND PRESERVATION	Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
<p><b>PPs Submission:</b> Complied</p> <p>There is no separate CHP for OCP Kalimela. The existing CHP for Jamadoba group of mines already has adequate measures in place such as water sprinkling system (fixed and movable) and dry fog system.</p>		<p>Date: 14/05/2026</p>
9	AIR QUALITY MONITORING AND PRESERVATION	Drills should be wet operated.
<p><b>PPs Submission:</b> Complied</p> <p>It is not applicable now as mining has ceased.</p>		<p>Date: 14/05/2026</p>
10	AIR QUALITY MONITORING AND PRESERVATION	Controlled blasting should be practiced only during daytime with use of delay detonators. The mitigative measures for control of ground vibration and to arrest the fly rocks and boulders should be implemented.
<p><b>PPs Submission:</b> Complied</p> <p>It is not applicable now as mining has ceased.</p>		<p>Date: 14/05/2026</p>
11	GREENBELT	Area brought under afforestation includes reclaimed external OB dump (12.89 ha), backfilled area (25.15 ha), along ML boundary,

		along roads (0.45 ha) and in undisturbed area (1.14 ha) within the lease area by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
<b>PPs Submission:</b> Complied The backfilling work has been completed and the biological reclamation work is in progress.		Date: 14/05/2026
12	LAND RECLAMATION	A progressive closure plan shall be implemented by reclamation of quarry area of 25.15 ha which shall be backfilled and afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance 1.10 ha of decoaled area shall be converted into a water reservoir, the upper benches of which shall be gently sloped and stabilized and reclaimed with plantation.
<b>PPs Submission:</b> Complied The reclamation work is in progress as per the progressive mine closure Plan. The mine closure plan of KOCP is under mining plan of Jamadoba Colliery (including MCP of Kalimela) has been approved by MOC, Delhi.		Date: 14/05/2026
13	MISCELLANEOUS	Conservation Plan for endangered species, if any, found in and around the project area shall be formulated, if required, in consultation with the State Forest and Wildlife Departments.
<b>PPs Submission:</b> Complied Not Applicable.		Date: 14/05/2026
14	WATER QUALITY MONITORING AND PRESERVATION	The company shall obtain prior approval of CGWA/ CGWB Regional Office for use of groundwater if any, for mining operations.
<b>PPs Submission:</b> Complied Not Applicable.		Date: 14/05/2026
15	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.
<b>PPs Submission:</b> Complied Now there will be no impact on ground water as mining has ceased. However, quality of groundwater is regularly analysed as required and attached in Annexure-II		Date: 27/05/2026
16	WATER QUALITY MONITORING AND PRESERVATION	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
<b>PPs Submission:</b> Complied Now there will be no impact on ground water as mining has ceased. However, quality of groundwater is regularly analysed as required and attached in Annexure-II		Date: 27/05/2026
17	WATER QUALITY	ETP should also be provided for workshop, coal washery and CHP

	MONITORING AND PRESERVATION	wastewater.
<b>PPs Submission:</b> Complied It is not applicable. Though ETP for Central Workshop has been commissioned having facility of Oil and Grease Trap.		Date: 14/05/2026
18	Statutory compliance	R&R shall not be less than the norms laid down by the State Government and shall be completed within a specified time-frame.
<b>PPs Submission:</b> Complied It is not applicable.		Date: 14/05/2026
19	Statutory compliance	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval.
<b>PPs Submission:</b> Complied It has been approved by MOC, Delhi and submitted to MoEFCC.		Date: 14/05/2026
20	Statutory compliance	Consent to operate shall be obtained before starting mining operations.
<b>PPs Submission:</b> Complied Consent to operate was obtained from JSPCB vide letter ref. No. SPCB/HO/RNC/CTO-13226858/2022/959 dated-04.07.2022, which was valid up to 30.09.2023, for backfilling and reclamation. The activities were completed, and biological reclamation is ongoing with trees plantation. Hence, the CTO was surrendered on 20.07.2023 vide letter no. JMB/ENV/SPCB/08/519/2023.		Date: 14/05/2026
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and forest.
<b>PPs Submission:</b> Complied All mining excavation activities are terminated. Reclamation work is in progress		Date: 14/05/2026
2	Statutory compliance	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
<b>PPs Submission:</b> Complied All mining excavation activities are terminated. Reclamation work is in progress.		Date: 14/05/2026
3	AIR QUALITY MONITORING AND PRESERVATION	Four Ambient Air quality monitoring station should be established in the core zones as well as in the buffer zone SPM, RSPM, SO2 and NOX monitoring location of the stations should be decided based on the metrological data & topographical features & environmentally & ecologically sensitive targets in consultation with SPCB.
<b>PPs Submission:</b> Complied The operations have now ceased. The ambient air monitoring is done at 4 locations and the reports are attached as Annexure-II		Date: 27/05/2026

4	AIR QUALITY MONITORING AND PRESERVATION	Fugitive dust emissions (SPM & RSPM) from all the sources should be controlled regularly monitored & data recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading & unloading) points should be provided & properly maintained.
<b>PPs Submission:</b> Complied Presently no coal excavation and coal transportation jobs are going on. However, water sprinkling on roads is being done regularly.		Date: 14/05/2026
5	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality (SPM, RSPM, SO <sub>x</sub> & NO <sub>x</sub> ) should be regularly submitted to the Ministry including its regional office at Bhubaneswar and to the SPCB & CPCB once in six months.
<b>PPs Submission:</b> Complied The ambient air monitoring is done at 4 locations and the reports are submitted to SPCB, CPCB and MoEFCC on half yearly basis Annexure-II		Date: 27/05/2026
6	Noise Monitoring & Prevention	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations of HEMM etc. All should be provided with Ear Plug/Muff.
<b>PPs Submission:</b> Complied It is not applicable now.		Date: 14/05/2026
7	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (Workshop and Waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharged. Oil and Grease trap should be installed before discharge of Work shop effluent.
<b>PPs Submission:</b> Complied There is no generation of wastewater.		Date: 14/05/2026
8	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions should be kept under control and regularly monitored. Vehicle used for transporting the mineral should be covered with tarpaulins and optimally loaded.
<b>PPs Submission:</b> Complied No mineral is being transported now. The vehicles carrying OB are only allowed to ply after securing full compliance on vehicle check list. Check list ensures the optimum load, good condition, emissions under limit.		Date: 14/05/2026
9	MISCELLANEOUS	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the SPCB.
<b>PPs Submission:</b> Complied We have a fully equipped Environment Cell Laboratory with qualified personnel. The monitoring and analysis are also done at regular intervals by a NABL and JSPCB recognized laboratory.		Date: 14/05/2026
10	Human Health Environment	Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspect. Occupational Health Surveillance programme of the worker should be under taken periodically to observe any contraction due to exposure to dust and to take corrective measures if needed.

<b>PPs Submission:</b> Complied It is not applicable now.		Date: 14/05/2026
11	MISCELLANEOUS	A separate Environmental Management cell with suitable qualified personnel should be set up under the control of a senior executive, who will report directly to the Head of the Company.
<b>PPs Submission:</b> Complied We have a separate Environmental Management Cell with four qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.		Date: 14/05/2026
12	Corporate Environmental Responsibility	Funds earmarked for environmental protection measures should be kept in separate A/C and should not be diverted for other purposes. Year wise expenditure should be reported to this ministry and its regional office at Bhubaneswar.
<b>PPs Submission:</b> Complied The Environment Cell has a separate fund for Environmental protection measures and for complying with legal requirements.		Date: 14/05/2026
13	MISCELLANEOUS	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities shall extend full co-operation to the officer of regional office by furnishing the requisite Data/ information/ monitoring report.
<b>PPs Submission:</b> Complied Being complied. All data is being furnished in the compliance report and during inspection.		Date: 14/05/2026
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		
<p style="text-align: center;"><b>Note:</b> 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.</p>		

**HALF YEARLY COMPLIANCE REPORT  
(PERIOD: OCTOBER 2025 - MARCH 2026)**

**OCP KALIMELA PROJECT  
UNDER JAMADOBA COLLIERY**



**TATA STEEL LIMITED, JHARIA DIVISION**

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

**ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO. - J-11015/252/2005-  
IA.II(M) DATED- 22<sup>ND</sup> JUNE 2006 ISSUED BY GOVT. OF INDIA, MINISTRY OF  
ENVIRONMENT & FOREST, NEW DELHI.**

**Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006**

S. No.	Condition	Compliance Status
<b>Specific Condition:</b>		
(i)	All the conditions stipulated by SPCB in their NOC no N-35 dated 31.01.2005 are to be implemented effectively.	NOC conditions are being complied with. The open cast operations have ceased, and no raw coal production is taking place.  Currently the backfilling of the mine void by the OB has been completed and biological reclamation work is in progress.
(ii)	The bund/embankment shall be designed taking into account highest flood level, based on past data, in the Damodar River/ Dungri Jore so as to guard against mine inundation.	The embankment exists along Dungri Jore. The HFL (Highest flood line) of Damodar river is way below the surface level of open cast mine hence bunds across the river is not necessary.
(iii)	Topsoil should be stacked properly with proper slope at earmarked sites and should not be kept active and shall be used for reclamation and development of green belt.	No further topsoil will be generated as coal mining activity has been ceased. The back filling has been completed, and the topsoil was used for biological reclamation of backfilled and OB area. Glimpses of activities is attached as <b>Annexure -I</b>
(iv)	OB should be stacked at earmarked external OB dumpsite(s) within ML area and shall be a maximum height of 60m only and consist of benches of 10m each. The ultimate slope of the dump shall not exceed 28°. Backfilling shall begin at the end of 3rd year in the decoaled area. Monitoring and management of existing reclaimed dumpsites should continue until the vegetation becomes self-sustaining. Compliance Status should be submitted to the MOEF and its regional office at Bhubaneswar on yearly basis.	OB was stacked within ML area at an area of 12 ha approx. About 24.08 lakh cum of OB generated has been stacked with an approximate height reached of 50 mts. The other conditions are being followed as well.  This OB has been used for backfilling the mine pit as part of our mine closure plan. Now the backfilling work has been completed and biological reclamation work is in progress.
(v)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate	Catch drain and siltation ponds have been constructed to arrest the debris, silt and sediment flows from OB dumps. Collected water had been used for watering mine area, roads & plantation. Total length of catch drains was 2200 mts. Garland drains (about 1790 mts) had been completely constructed around the mine site to ensure runoff water during rainy season is properly drained off. Since mine area has not going to expand, no additional garland drains are required as of now.

**Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006**

	retention period to allow proper settling of slit material.	
(vi)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data	Retention wall (or Toe wall) of about 2200 mts. exists around the dump area to check run-off and siltation.
(vii)	The effluents from the coal washery shall be treated to prescribed norms before discharge from the lease.	There is no separate coal washery for OCP Kalimela. We have a central coal washery for Jamadoba group of mines, about 1.5 kms away, which has a closed water circuit system to maintain zero discharge.
(viii)	Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	There is no separate CHP for OCP Kalimela. The existing CHP for Jamadoba group of mines already has adequate measures in place such as water sprinkling system (fixed and movable) and dry fog system.
(ix)	Drills should be wet operated.	It is not applicable now as mining has ceased.
(x)	Controlled blasting should be practiced only during daytime with use of delay detonators. The mitigative measures for control of ground vibration and to arrest the fly rocks and boulders should be implemented.	It is not applicable now as mining has ceased.
(xi)	Area brought under afforestation includes reclaimed external OB dump (12.89 ha), backfilled area (25.15 ha), along ML boundary, along roads (0.45 ha) and in undisturbed area (1.14 ha) within the lease area by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	The backfilling work has been completed and the biological reclamation work is in progress.
(xii)	A progressive closure plan shall be implemented by reclamation of quarry area of 25.15 ha which shall be backfilled and afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance 1.10 ha of decoaled area shall be converted into a water reservoir, the upper benches of which shall be gently sloped and stabilized and reclaimed with plantation.	The reclamation work is in progress as per the progressive mine closure Plan.  The mine closure plan of KOCP is under mining plan of Jamadoba Colliery (including MCP of Kalimela) has been approved by MOC, Delhi.
(xiii)	Conservation Plan for endangered species, if any, found in and around the project area shall be formulated, if required, in consultation with the State Forest and Wildlife Departments.	Not Applicable.

**Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006**

(xiv)	The company shall obtain prior approval of CGWA/ CGWB Regional Office for use of groundwater if any, for mining operations.	Not Applicable.
(xv)	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.	Now there will be no impact on ground water as mining has ceased. However, quality of groundwater is regularly analysed as required and attached in <b>Annexure-II</b>
(xvi)	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Now there will be no impact on ground water as mining has ceased. However, quality of groundwater is regularly analysed as required and attached in <b>Annexure-II</b>
(xvii)	ETP should also be provided for workshop, coal washery and CHP wastewater.	It is not applicable. Though ETP for Central Workshop has been commissioned having facility of Oil & Grease Trap.
(xviii)	R&R shall not be less than the norms laid down by the State Government and shall be completed within a specified time-frame.	It is not applicable.
(xix)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval.	It has been approved by MOC, Delhi and submitted to MoEF&CC.
(xx)	Consent to operate shall be obtained before starting mining operations.	Consent to operate was obtained from JSPCB vide letter ref. No. SPCB/HO/RNC/CTO-13226858/2022/959 dated-04.07.2022, which was valid up to 30.09.2023, for backfilling and reclamation. The activities were completed, and biological reclamation is ongoing with trees plantation. Hence, the CTO was surrendered on 20.07.2023 vide letter no. JMB/ENV/SPCB/08/519/2023.
<b>General Conditions:</b>		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and forest.	All mining excavation activities are terminated. Reclamation work is in progress

**Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006**

(i)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	All mining excavation activities are terminated. Reclamation work is in progress.
(ii)	Four Ambient Air quality monitoring station should be established in the core zones as well as in the buffer zone SPM, RSPM, SO <sub>2</sub> and NO <sub>X</sub> monitoring location of the stations should be decided based on the metrological data & topographical features & environmentally & ecologically sensitive targets in consultation with SPCB.	The operations have now ceased. The ambient air monitoring is done at 4 locations and the reports are attached as <b>Annexure -II</b>
(iii)	Fugitive dust emissions (SPM & RSPM) from all the sources should be controlled regularly monitored & data recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading & unloading) points should be provided & properly maintained.	Presently, no coal excavation and coal transportation jobs are going on. However, water sprinkling on roads is being done regularly.
(iv)	Data on ambient air quality (SPM, RSPM, SO <sub>x</sub> & NO <sub>x</sub> ) should be regularly submitted to the Ministry including its regional office at Bhubaneswar and to the SPCB & CPCB once in six months.	The ambient air monitoring is done at 4 locations and the reports are submitted to SPCB, CPCB & MoEFCC on half yearly basis <b>Annexure - II</b>
(v)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations of HEMM etc. All should be provided with Ear Plug/Muff.	It is not applicable now.
(vi)	Industrial waste water (Workshop and Waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharged. Oil and Grease trap should be installed before discharge of Work shop effluent.	There is no generation of wastewater.
(vii)	Vehicular emissions should be kept under control and regularly monitored. Vehicle used for transporting the mineral should be covered with tarpaulins and optimally loaded.	No mineral is being transported now. The vehicles carrying OB are only allowed to ply after securing full compliance on vehicle check list. Check list ensures the optimum load, good condition, emissions under limit.

**Compliance status of Environmental Clearance of Kalimela Open Cast Mining Project (0.34 MTPA) of M/s Tata Steel Ltd., Village Dungri, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/252/2005-IA.II (M) dated June 22, 2006**

(viii)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the SPCB.	We have a fully equipped Environment Cell Laboratory with qualified personnel. The monitoring and analysis are also done at regular intervals by a NABL and JSPCB recognised laboratory.
(ix)	Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspect. Occupational Health Surveillance programme of the worker should be under taken periodically to observe any contraction due to exposure to dust and to take corrective measures if needed.	It is not applicable now.
(x)	A separate Environmental Management cell with suitable qualified personnel should 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 four qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.
(xi)	Funds earmarked for environmental protection measures should be kept in separate A/C and should not be diverted for other purposes. Year wise expenditure should be reported to this ministry and its regional office at Bhubaneswar.	The Environment Cell has a separate fund for Environmental protection measures and for complying with legal requirements.
(xii)	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities shall extend full co-operation to the officer of regional office by furnishing the requisite Data/ information/ monitoring report.	Being complied. All data is being furnished in the compliance report and during inspection.

### 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.

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
FY26	7818

Glimpses of plantation activities for FY26:





Before



After



Before



After



Before







After


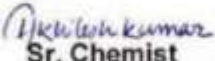






Before



After

	<b>ADITI R&amp;D SERVICES</b> <b>Testing Laboratory</b> <b>NABL ACCREDITED</b> <b>(A Constituent Board of Quality Council of India)</b> <b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b>	Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimsdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608		
Ref. No.: - ARDS/25-26/AAQ/1	Date: 24/11/2025			
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 18/11/2025 To 19/11/2025</li><li>Date of Testing : 20/11/2025 To 24/11/2025</li><li>Test Procedure : As per IS-5182</li></ul>				
<b><u>TEST RESULTS</u></b>				
<b>LOCATION – 6 &amp; 7 PITS COLLIERY OFFICE</b>				
	Avg. Ambient Temperature	22°C	Avg. Humidity	36%
SI No.	Particulars	Value	NAAQ - CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	93.4	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	57.9	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	20.59	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	21.53	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	14.46	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	13.78	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.68	4 mg/m <sup>3</sup>	
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>	
9.	As, ng/m <sup>3</sup>	BDL	6 ng/m <sup>3</sup>	
10.	Ni, ng/m <sup>3</sup>	BDL	20 ng/m <sup>3</sup>	
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>	
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1 ng/m <sup>3</sup>	
NOTE: BDL - Below Detection Limit				
 Sr. Chemist Aditi R&D Services		 Quality Manager Aditi R&D Services, Sindri		
<b>Statements :</b>				
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 measurement.				
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<p>Ref. No.: - ARDS/25-26/ AAQ/3</p>		<p>Date: 24/11/2025</p>			
<h3><u>TEST REPORT OF AMBIENT AIR QUALITY</u></h3>					
<ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 18/11/2025 to 19/11/2025</li> <li>• Date of Testing : 20/11/2025 to 24/11/2025</li> <li>• Test Procedure : As per IS-5182</li> </ul>					
<h4><u>TEST RESULTS</u></h4>					
<p><b>LOCATION – CENTRAL WORKSHOP AREA , JAMADOBA</b></p>					
	Avg. Ambient Temperature	22 <sup>0</sup> C	Avg. Humidity	36%	
Sl No.	Particulars	Value	NAAQ - CPCB STANDARD		
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	89.6	100 µg/m <sup>3</sup>		
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	48.2	60 µg/m <sup>3</sup>		
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	13.26	80 µg/m <sup>3</sup>		
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	31.63	80 µg/m <sup>3</sup>		
5.	Ozone, µg/m <sup>3</sup>	15.16	180 µg/m <sup>3</sup>		
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	14.82	400 µg/m <sup>3</sup>		
7.	CO, mg/m <sup>3</sup>	0.76	4 mg/m <sup>3</sup>		
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>		
9.	As, ng/m <sup>3</sup>	BDL	6 ng/m <sup>3</sup>		
10.	Ni, ng/m <sup>3</sup>	BDL	20 ng/m <sup>3</sup>		
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>		
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1 ng/m <sup>3</sup>		
<p>NOTE: BDL - Below Detection Limit</p>					
<p><i>Akhil Kumar</i> Sr. Chemist Aditi R&amp;D Services</p>			<p><i>[Signature]</i> Quality Manager Aditi R&amp;D Services, Sindri</p>		
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Testing Laboratory

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

Ref. No.: - ARDS/25-26/ AAQ/4

Date: 24/11/2025

## 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 : 17/11/2025 To 18/11/2025
- Date of Testing : 19/11/2025 to 24/11/2025
- Test Procedure : As per IS-5182

### TEST RESULTS

#### LOCATION - TATA MAIN HOSPITAL

SI No.	Particulars	Value	NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	22 <sup>0</sup> C	Avg. Humidity 36%
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	88.7	100 µg/m <sup>3</sup>
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	52.1	60 µg/m <sup>3</sup>
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	18.80	80 µg/m <sup>3</sup>
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	18.00	80 µg/m <sup>3</sup>
5.	Ozone, µg/m <sup>3</sup>	14.38	180 µg/m <sup>3</sup>
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	13.66	400 µg/m <sup>3</sup>
7.	CO, mg/m <sup>3</sup>	0.82	4 mg/m <sup>3</sup>
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>
9.	As, ng/m <sup>3</sup>	BDL	6 ng/m <sup>3</sup>
10.	Ni, ng/m <sup>3</sup>	BDL	20 ng/m <sup>3</sup>
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1 ng/m <sup>3</sup>

NOTE: BDL - Below Detection Limit

*Devi Lakshmi*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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**TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING**

<b>Ref. No. &amp; Date</b>	<b>NAME AND ADDRESS OF THE CLIENT</b>			
ARSD/25-26/NOISE/1Date: 24/11/2025	M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)			
<b>Date of Monitoring</b>				
17/11/2025 To 20/11/2025	Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant
Work Order 4700126557/932 Date:- 29/05/2024	22	36	Clear	Running

**MONITORING RESULTS**

Sl. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) Avg. dB(A)			Noise level (Ambient standard) for Industrial Area as per CPCB Noise Pollution (Regulation and Control) (Amendment) Rules , 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time	Night Time
<b>LOCATION</b>								<b>Industrial Area</b>	<b>Industrial Area</b>
<b>JAMADOBA GROUP</b>									
1.	Central Workshop Area	74.2	59.2	71.32	65.6	48.0	62.66	75	70
2.	6 & 7 Pits Colliery Office	57.4	44.8	54.62	49.7	44.8	47.91		
								<b>Residential Area</b>	<b>Residential Area</b>
3.	Officer Colony 12 No. Digwadiah	44.3	43.2	43.78	38.7	30.2	36.26	65	55
								<b>Silence Zone</b>	<b>Silence Zone</b>
4.	Tata Main Hospital	49.6	43.1	47.47	37.6	38.8	38.24	50	40



*Dikshu Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/MINER./1	Date: 24/11/2025																							
<b><u>TEST REPORT OF MINERALOGICAL COMPOSITION</u></b> <b><u>OF PARTICULATE MATTER</u></b>																								
<ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 18/11/2025 and 19/11/2025</li><li>Date of Testing : 20/11/2025 To 25/11/2025</li></ul>																								
<b><u>TEST RESULTS</u></b>																								
<table border="1"><thead><tr><th rowspan="2">Sl No.</th><th rowspan="2">Particulars</th><th colspan="4">Mineralogical Composition (%)</th></tr><tr><th>SiO<sub>2</sub></th><th>FeO</th><th>Al<sub>2</sub>O<sub>3</sub></th><th>CaO</th></tr></thead><tbody><tr><td>1.</td><td>Central Workshop Area, Jamadoba</td><td>1.84</td><td>0.124</td><td>1.41</td><td>2.96</td></tr><tr><td>2.</td><td>Officer' Colony, 12 No Digwadih</td><td>1.86</td><td>0.103</td><td>1.28</td><td>2.72</td></tr></tbody></table>	Sl No.	Particulars	Mineralogical Composition (%)				SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO	1.	Central Workshop Area, Jamadoba	1.84	0.124	1.41	2.96	2.	Officer' Colony, 12 No Digwadih	1.86	0.103	1.28	2.72		
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<p><i>Dhritish Kumar</i> Sr. Chemist Aditi R&amp;D Services</p>		<p><i>[Signature]</i> Quality Manager Aditi R&amp;D Services, Sindri</p>																						
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Sindri, Industrial Area,  
P.O. - Domgarh, Dist. - Dhanbad  
Jharkhand - 828107  
Email ID: sindriaditi@gmail.com  
Website: aditirdservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/SW/1

Date: 24/11/2025

## 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: 18/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test : pH, TDS, Turbidity, DO, BOD, Cl, F, SO<sub>4</sub>

### TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE		Limit as per IS 2296 Class - C	Test Method
		Damodar River Up Stream	Damodar River Dn Stream		
1.	pH	8.16	8.31	6.5 -8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	430	451	1500	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1.5	1.2	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	6.2	6.4	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.3	1.6	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	34.9	32.97	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.6	0.3	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO <sub>4</sub> , mg/l	112.32	96.32	400	IS-3025 (P-24):1986

*Dikshita kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/MWD/1

Date: 24/11/2025

### 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
  3. 6 & 7 Pits Colliery
  4. Digwadih Colliery
- Date of Sample Collection: 17/11/2025 To 18/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

### TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS-2296 Class B (For Bathing)	Test Method
		2 Pit Jamadoba Colliery	3 Pit Jamadoba Colliery	6 & 7 Pits Colliery	Digwadih Colliery		
1.	pH,	7.61	7.5	7.6	8.03	6.5-8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	812	320	815	911	-	IS-3025 (P-16): 1984
3.	Total Suspended Solids, mg/l	18	10.1	25	12.2	-	IS-3025(P-17) : 1984
4.	Bio chemical Oxygen Demand, mg/l	2.8	2.4	2.1	3.1	3	IS-3025 (P-44):1994
5.	Chemical Oxygen Demand, mg/l	115	26	113	81	-	IS-3025 (P-58):2006
6.	Oil & Grease, mg/l	3.1	2.3	2.7	3.1	-	IS-3025 (P-39):2021



*Dhritish Kumar*  
**Sr. Chemist**  
 Aditi R&D Services



*[Signature]*  
**Quality Manager**  
 Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/STP/1		Date: 24/11/2025						
<b>TEST REPORT OF SEWAGE</b>								
<ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li> <li>• Sample Code : 1. STP Outlet- Railway Colony 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</li> <li>• Date of Sample Collection: 17/11/2025 To 18/11/2025</li> <li>• Date of Testing : 19/11/2025 To 23/11/2025</li> <li>• Test : pH, TDS, TSS, BOD, COD, OIL &amp; GREASE, and Fecal Coliform, Total Nitrogen, Total Phosphorous.</li> </ul>								
<b>TEST RESULT</b>								
Sl. No	PARAMETERS OF TEST	VALUE					As per MoEF&CC Notification for Sewage Treatment Plant	Test Method
		STP Outlet Railway Colony	STP Outlet Digwadih 12 No Officers Colony	STP Outlet Digwadih 12 No. Supervisor or flat	STP Outlet Jmb. Canteen	STP Outlet- JCPP Canteen		
1.	pH,	7.89	8.5	7.8	8.1	8.12	5.5-9.0	IS-3025(P-11):1983
2.	Total Dissolved Solids, mg/l	975	597	840	1120	1174	-	IS-3025(P-16):1984
3.	Total Suspended Solids, mg/l	29	28	32	36	38	20	IS-3025(P-17):1984
4.	Bio chemical Oxygen Demand, mg/l	4.3	3.7	3.9	4.7	4.3	10	IS-3025(P-44):1994
5.	Chemical Oxygen Demand, mg/l	48	40	38.8	48	42	50	IS-3025(P-58):2006
6.	Oil & Grease, mg/l	2.6	2.7	2.2	2.8	3.2	-	IS-3025(P-39):2021
7.	Fecal Coliform (FC) (MPN/100ml)	140/100	142/100	138/100	136/100	142/100	Desirable 100 & Permissible 230	IS - 1622
8.	Total Nitrogen as N, mg/l	7.3	6.9	6.2	6.2	7.1	10	IS - 3025 (P-34):1988
9.	Total Phosphorus as P, mg/l	0.76	0.77	0.68	0.72	0.73	1.0	IS - 3025 (P-31):1988
Dr. Kishor Kumar Sr. Chemist Aditi R&D Services				Quality Manager Aditi R&D Services, Sindri				

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Sindri, Industrial Area,  
P.O. - Domgarh, Dist. - Dhanbad  
Jharkhand - 828107  
Email ID: sindriaditi@gmail.com  
Website: aditimdsservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/ETP/1

Date: 24/11/2025

**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: 17/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

**TEST RESULT**

Sl. No.	PARAMETERS OF TEST	VALUE		General Standard for discharge of Environmental Pollutants , Inland Surface water by the MoEF&C	Test Method
		E.T.P. Outlet T.C.H.	E.T.P. Outlet Garage		
1.	pH,	9.21	8.22	5.5-9.0	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	794	624	-	IS-3025 (P-16): 1984
3.	Total Suspended Solids, mg/l	88	81	100	IS-3025(P-17) : 1984
4.	Bio chemical Oxygen Demand, mg/l	11.5	8.4	30	IS-3025 (P-44):1994
5.	Chemical Oxygen Demand, mg/l	98	66	250	IS-3025 (P-58):2006
6.	Oil & Grease, mg/l	3.4	3.5	10	IS-3025 (P-39):2021

Note : BDL - Below Detection Limit

*(Signature)*  
Sr. Chemist  
Aditi R&D Services



*(Signature)*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/DW/1

Date: 24/11/2025

**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:** 18/11/2025
- **Date of Testing** : 19/11/2025 To 23/11/2025
- **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 RESULT**

Sl. No	PARAMETERS OF TEST	VALUE				IS as per IS 10500:2012		Test Method
		Canteen- Jamadoba Colliery	Canteen- Jamadoba Washery	Canteen Digwadih Colliery	Canteen- 6&7 Pits Colliery	Desirable	Permissible	
1.	Colour, (Hazen Unit)	1	1	1	1	5.00	15.0	IS 3025 (P-4):2021
2.	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (P-5):2018
3.	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (P-7):2017
4.	Turbidity, NTU	0.7	0.8	0.5	0.8	1.0	5.0	IS 3025 (P-10):1984
5.	pH	7.9	7.4	8.4	8.3	6.5-8.5	No. Relax.	IS-3025 (P-11):1983
6.	Total Hardness as CaCO <sub>3</sub> , mg/l	636	440	652	348.0	200	600	IS 3025 (P-21):2009
7.	Chloride as Cl, mg/l	106	68	86	69	250	1000	IS 3025 (P-32):1988
8.	Res. Free chlorine as Cl <sub>2</sub> mg/l	0.124	0.321	0.141	0.123	0.20	1.0	IS 3025 (P-26):2021
9.	Total Dissolved Solids, mg/l	735	540	729	310	500	2000	IS 3025 (P-16):1984
10.	Calcium as Ca, mg/l	48	40	52.8	48.0	75	200	IS 3025 (P-40):1991
11.	Copper as Cu, mg/l	0.072	0.082	0.087	0.093	0.05	1.5	IS 3025 (P-42):1992

Continued on Page 2

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**Testing Laboratory**

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Jharkhand - 828107  
Email ID: sindriaditi@gmail.com  
Website: aditirdservices.com  
Phone: 0326-2952377 (O),  
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- 2 -

SI. No.	PARAMETERS OF TEST	VALUE				IS as per IS 10500:1991		Test Method
		Canteen-Jamadoba Colliery	Canteen Jamadoba Washery	Canteen Digwadih Colliery	Canteen- 6&7 Pits Colliery	Desirable	Permissible	
12.	Manganese as Mn, mg/l	0.24	0.26	0.21	0.28	0.10	0.30	IS 3025 (P-59):2006
13.	Sulphate as SO <sub>4</sub> , mg/l	118.2	102.4	119.9	75.5	200	400	IS 3025 (P-24):1986
14.	Nitrate as NO <sub>3</sub> , mg/l	6.3	5.8	6.0	6.8	45	No. Relax	IS 3025 (P-34):1988
15.	Fluoride as F, mg/l	0.6	0.5	0.6	0.4	1.0	1.5	IS 3025 (P-60):2008
16.	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH) mg/l	BDL	BDL	BDL	BDL	0.001	0.002	IS 3025 (P-43):1992
17.	Mercury as Hg, mg/l	BDL	BDL	BDL	BDL	0.001	No. Relax	IS 3025 (P-48):1994
18.	Cadmium as Cd, mg/l	BDL	BDL	BDL	BDL	0.003	No. Relax	IS 3025 (P-41):1992
19.	Arsenic as As, mg/l	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025 (P-37):1988
20.	Cyanide as CN, mg/l	BDL	BDL	BDL	BDL	0.05	No. Relax	IS 3025 (P-27):1986
21.	Lead as Pb, mg/l	N.T.	N.T.	N.T.	N.T.	0.01	No. Relax	IS 3025 (P-47):1994
22.	Zinc as Zn, mg/l,	2.4	2.2	2.5	2.6	5	15	IS 3025 (P-42):1992
23.	Total Coliform, No./100ml	Absent	Absent	Absent	Absent	Absent	Absent	IS 3025 (P-49):1994
24.	Total Chromium as Cr, mg/l	0.12	0.013	0.012	0.014	0.05	No. Relax	IS 3025 (P-52):2003
25.	Mineral Oil, mg/l	BDL	BDL	BDL	BDL	0.5	No. Relax	IS 3025 (P-39):1989
26.	Alkalinity as CaCO <sub>3</sub> , mg/l,	578.8	556.4	559.5	210.2	200	600	IS 3025 (P-23):1983
27.	Aluminium as Al, mg/l	BDL	BDL	BDL	BDL	0.03	0.2	IS 3025 (P-55):2003
28.	Boron as B, mg/l	BDL	BDL	BDL	BDL	0.5	1.0	IS 3025 (P-57):2005

NOTE: BDL - Below Detection Limit

*Akhil Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/GW/1

Date: 24/11/2025

**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. Purnadih (Jorapokhar)
  2. Digwadih 10 No F&J.
  3. Kalimela Kalimandir.
  4. Upper Dungari
  5. Kenduadih Basti.
  6. 6 & 7 Pits (Auodhya Nagri)
- Date of Sample Collection : 18/11/2025 to 19/11/2025
- Date of Testing : 20/11/2025 to 24/11/2025
- 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, Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

**TEST RESULT**

Sl. No	PARAMETERS OF TEST	VALUE						IS as per IS 10500:1991		Test Method
		Purnadih (Jorapokhar)	Digwadih 10 No F&J.	Kalimela Kalimandir.	Upper Dungari	Kenduadih Basti.	6 & 7 Pits (Auodhya Nagri)	Desirable	Permissible	
1.	Colour, (Hazen Unit)	1	1	1	1	1	1	5	15	IS 3025 (P-4):2021
2.	Temperature °C	25	24	20	25	22	22	-	-	-
3.	Electrical Conductivity, µmhos/cm	1210	1850	1570	1400	850	1350	-	-	-
4.	Total Dissolved Solids, mg/l	712	1081	978.4	897.2	537.5	842	500	2000	IS 3025(P-16):1984
5.	pH	7.4	7.6	7.27	7.56	7.79	7.21	6.5-8.5	No Relax	IS-3025(P-11):1983
6.	Total Hardness as CaCO <sub>3</sub> , mg/l	568	632	310	512	424	320	200	600	IS 3025(P-21):2009
7.	Calcium as Ca, mg/l	138	90	71	126	128	95	75	200	IS 3025(P-40):1991
8.	Magnesium as Mg, mg/l	52.8	66.1	57.3	48	71	56.25	30	100	IS 3025(P-46):1994
9.	Chloride as Cl, mg/l	38	84	197.8	100.7	69.82	159	250	1000	IS 3025(P-32):1988
10.	Fluoride as F, mg/l	0.3	0.5	0.5	0.4	0.3	0.4	1.0	1.5	IS 3025(P-60):2008

Continued on Page -2

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- 2 -

Sl. No	PARAMETERS OF TEST	VALUE						IS as per IS 10500:1991		Test Method
		Purnadih (Jorapokhar)	Digwadih 10 No F&J.	Kalimela Kalimandir.	Upper Dungari	Kendu adih Basti.	6& 7 Pits (Auodhya Nagri)	Desirable	Permissible	
11	Sulphate as SO <sub>4</sub> , mg/l	120.0	126.16	117.9	131.5	98.2	113.5	200	400	IS 3025(P-24):1986
12	Nitrate as NO <sub>3</sub> , mg/l	8.4	9.6	5.6	5.8	6.2	5.4	45	No. Relax	IS 3025(P-34):1988
13	Alkalinity as CaCO <sub>3</sub> , mg/l,	1120	962.0	625	800	590	520	200	600	IS 3025(P-23):1983
14	Lead as Pb, mg/l	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.	0.01	No. Relax	IS 3025(P-47):1994
15	Zinc as Zn, mg/l,	2.3	2.1	2.6	2.5	2.6	2.4	5	15	IS 3025(P-42):1992
16	Iron a Fe, mg/l	0.076	0.079	0.083	0.075	0.08	0.094	1.0	No. Relax	IS 3025(P-53):2003
17	Copper as Cu, mg/l	0.068	0.075	0.072	0.062	0.043	0.34	0.05	1.5	IS3025 (P-42):1992
18	Mercury as Hg, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.001	No. Relax	IS 3025(P-48):1994
19	Cadmium as Cd, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.003	No. Relax	IS 3025(P-41):1992
20	Nickel as Ni, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.02	No. Relax	IS 3025(P-37):1992
21	Arsenic as As, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025(P-37):1988
22	Cyanide as CN, mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.05	No. Relax	IS 3025(P-27):1986
23	Total Chromium as Cr, mg/l	0.02	0.03	0.03	0.02	0.03	0.01	0.05	No. Relax	IS 3025(P-52):2003

NOTE: BDL - Below Detection Limit



*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/AAQ/1		Date: 29/03/2026			
<h3><u>TEST REPORT OF AMBIENT AIR QUALITY</u></h3>					
<ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 25/03/2026 – 26/03/2026</li> <li>• Date of Testing : 27/03/2026 – 29/03/2026</li> <li>• Test Procedure : As per IS-5182</li> </ul>					
<h3><u>TEST RESULTS</u></h3>					
<b>LOCATION – CENTRAL WORKSHOP AREA, JAMADOBA</b>					
Environmental Conditions During Testing and Analysis →		Ambient Temperature	27°C± 2°C	Relative Humidity	50%±10%
SI No.	Particulars	Value	NAAQ - CPCB STANDARD		
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	92.82	100 µg/m <sup>3</sup>		
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	55.39	60 µg/m <sup>3</sup>		
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	21.0	80 µg/m <sup>3</sup>		
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	52.46	80 µg/m <sup>3</sup>		
5.	Ozone, µg/m <sup>3</sup>	12.40	180 µg/m <sup>3</sup>		
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	22.50	400 µg/m <sup>3</sup>		
7.	CO, mg/m <sup>3</sup>	0.89	4 mg/m <sup>3</sup>		
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>		
9.	As, ng/m <sup>3</sup>	BDL	6ng/m <sup>3</sup>		
10.	Ni, ng/m <sup>3</sup>	BDL	20ng/m <sup>3</sup>		
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>		
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1ng/m <sup>3</sup>		
NOTE: BDL - Below Detection Limit					
<i>Akash Kumar</i> Sr. Chemist Aditi R&D Services				<i>[Signature]</i> Quality Manager Aditi R&D Services, Sindri	
<b>Statements :</b> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>					



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

Ref. No.: - ARDS/25-26/ AAQ/2

Date: 29/03/2026

**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 : 25/03/2026 – 26/03/2026
- Date of Testing : 27/03/2026 – 29/03/2026
- Test Procedure : As per IS-5182

**TEST RESULTS**

**LOCATION – OFFICER'S COLONY, 12 NO DIGWADIH**

Environmental Conditions During Testing and Analysis		Ambient Temperature	Relative Humidity
➔		27°C ± 2	50% ± 10
Sl No.	Particulars	Value	NAAQ - CPCB STANDARD
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	64.03	100 µg/m <sup>3</sup>
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	42.65	60 µg/m <sup>3</sup>
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	17.75	80 µg/m <sup>3</sup>
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	55.49	80 µg/m <sup>3</sup>
5.	Ozone, µg/m <sup>3</sup>	14.11	180 µg/m <sup>3</sup>
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	24.78	400 µg/m <sup>3</sup>
7.	CO, mg/m <sup>3</sup>	0.78	4 mg/m <sup>3</sup>
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>
9.	As, ng/m <sup>3</sup>	BDL	6ng/m <sup>3</sup>
10.	Ni, ng/m <sup>3</sup>	BDL	20ng/m <sup>3</sup>
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1ng/m <sup>3</sup>

NOTE: BDL - Below Detection Limit

*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Sindri, Industrial Area,  
P.O.- Domgarh, Dist.- Dhanbad  
Jharkhand - 828107  
Email ID: sindriaditi@gmail.com  
Website: aditirdservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/ AAQ/3

Date: 30/03/2026

**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 : 26/03/2026 – 27/03/2026
- Date of Testing : 28/03/2026 – 30/03/2026
- Test Procedure : As per IS-5182

**TEST RESULTS**

**LOCATION – 6&7 PITS COLLIERY OFFICE**

Environmental Conditions During Testing and Analysis		Ambient Temperature	27°C ± 2	Relative Humidity	50% ± 10
SI No.	Particulars	Value	NAAQ - CPCB STANDARD		
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	97.3	100 µg/m <sup>3</sup>		
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	56.45	60 µg/m <sup>3</sup>		
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	19.39	80 µg/m <sup>3</sup>		
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	17.80	80 µg/m <sup>3</sup>		
5.	Ozone, µg/m <sup>3</sup>	12.38	180 µg/m <sup>3</sup>		
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	27.30	400 µg/m <sup>3</sup>		
7.	CO, mg/m <sup>3</sup>	1.04	4 mg/m <sup>3</sup>		
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>		
9.	As, ng/m <sup>3</sup>	BDL	6ng/m <sup>3</sup>		
10.	Ni, ng/m <sup>3</sup>	BDL	20ng/m <sup>3</sup>		
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>		
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1ng/m <sup>3</sup>		

NOTE: BDL - Below Detection Limit



*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/ AAQ/4		Date: 30/03/2026		
<b>TEST REPORT OF AMBIENT AIR QUALITY</b>				
<ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 26/03/2026 – 27/03/2026</li> <li>• Date of Testing : 28/03/2026 – 30/03/2026</li> <li>• Test Procedure : As per IS-5182</li> </ul>				
<b>TEST RESULTS</b>				
<b>LOCATION – TATA MAIN HOSPITAL</b>				
Environmental Conditions During Testing and Analysis	Ambient Temperature	27°C±2°C	Relative Humidity	50%±10
➔				
SI No.	Particulars	Value	NAAQ - CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	86.24	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	49.3	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	25.82	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	66.50	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	14.9	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	25.60	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.85	4 mg/m <sup>3</sup>	
8.	Pb, µg/m <sup>3</sup>	BDL	1 µg/m <sup>3</sup>	
9.	As, ng/m <sup>3</sup>	BDL	6ng/m <sup>3</sup>	
10.	Ni, ng/m <sup>3</sup>	BDL	20ng/m <sup>3</sup>	
11.	Benzene, µg/m <sup>3</sup>	BDL	5 µg/m <sup>3</sup>	
12.	Benzoapyrene ng/m <sup>3</sup>	BDL	1ng/m <sup>3</sup>	
NOTE: BDL - Below Detection Limit				
<p style="text-align: center;"><i>Akilesh Kumar</i> Sr. Chemist Aditi R&amp;D Services</p>				
		<p style="text-align: center;"><i>[Signature]</i> Quality Manager Aditi R&amp;D Services, Sindri</p>		
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**TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING**

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT			
ARDS/25-26/NOISE/1 Date: 29/03/2026	M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)			
Date of Monitoring				
25/03/2026 to 26/03/2026	Ambient Temperature	Relative Humidity	Weather Condition	Status of the plant
Work Order 4700126557/932 Date:- 29/05/2024	27°C±2°C%	50%±10%	Clear	Running

**MONITORING RESULTS**

ad	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) Avg. dB(A)			Noise level (Ambient standard) for Industrial Area as per CPCB Noise Pollution (Regulation and Control) (Amendment) Rules , 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time	Night Time
LOCATION								Industrial Area	Industrial Area
JAMADOBA GROUP									
1.	Central Workshop Area, Jamadoba.	74.9	53.4	71.92	62.8	46.2	59.88	75	70
2.	6 & 7 Pits Colliery Office.	62.8	57.3	60.87	70.2	50.6	67.24		
								Residential Area	Residential Area
3.	Officer Colony 12 No. Digwadih.	60.8	40.8	57.83	58.6	49.2	51.22	65	55
								Silence Zone	Silence Zone
4.	Tata Main Hospital.	50.2	48.6	49.47	38.6	32.4	36.52	50	40

*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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P.O - Domgarh, Dist.- Dhanbad  
Jharkhand - 828107  
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Website: aditimdservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/MINER.

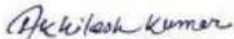
Date: 31/03/2026

**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 : 27/03/2026
- Date of Testing : 28/03/2026 – 31/03/2026

**TEST RESULTS**

Sl No.	Particulars	Mineralogical Composition (%)			
		SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO
1.	6 & 7 Pits Colliery office.	1.77	0.119	1.37	2.58
2.	Tata Main Hospital	1.72	0.108	1.12	2.43

  
Sr. Chemist  
Aditi R&D Services



  
Quality Manager  
Aditi R&D Services, Sindri

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Plot No. - I-B-17 (P)  
Sindri, Industrial Area,  
P.O - Domgarh, Dist.- Dhanbad  
Jharkhand - 828107  
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Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/SW/1

Date: 31/03/2026

**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: 26/03/2026
- Date of Testing : 27/03/2026 – 31/03/2026
- Test : pH, TDS, Turbidity, DO, BOD, Cl, F, SO<sub>4</sub>

**TEST RESULT**

Sl. No.	PARAMETERS OF TEST	VALUE		Limit as per IS 2296 Class - C	Test Method
		Damodar River Up Stream	Damodar River Down Stream		
1.	pH	8.12	7.68	6.5 -8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	550	460	1500	IS-3025 (P-16): 1984
3.	Turbidity, NTU	3.6	2.7	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.52	5.60	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.8	1.2	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	54.30	40.73	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.05	0.05	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO <sub>4</sub> , mg/l	95.29	81.27	400	IS-3025 (P-24):1986

*Akash Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/MWD/1

Date: 31/03/2026

### 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  
3. 6 & 7 Pits Colliery  
4. Digwadih Colliery
- Date of Sample Collection: 26/03/2026 – 27/03/2026
- Date of Testing : 27/03/2026 – 31/03/2026
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

#### TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS-2296 Class B (For Bathing)	Test Method
		2 Pit Jamadoba Colliery	3 Pit Jamadoba Colliery	6 & 7 Pits Colliery	Digwadih Colliery		
1.	pH,	7.97	7.98	7.18	7.78	6.5-8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	930	600.20	610	710.0	-	IS-3025 (P-16): 1984
3.	Total Suspended Solids, mg/l	22.0	22.8	18.0	24.0	-	IS-3025(P-17) : 1984
4.	Bio chemical Oxygen Demand, mg/l	2.8	2.4	1.8	2.8	3	IS-3025 (P-44):1994
5.	Chemical Oxygen Demand, mg/l	28.0	24.0	20.0	24.0	-	IS-3025 (P-58):2006
6.	Oil & Grease, mg/l	2.4	2.0	2.0	2.4	-	IS-3025 (P-39):2021



*Akhilash Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/STP/1		Date: 31/03/2026						
<h4>TEST REPORT OF SEWAGE</h4>								
<ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li> <li>• Sample Code : 1. STP Outlet- Railway Colony 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</li> <li>• Date of Sample Collection: 26/03/2026 – 27/03/2026</li> <li>• Date of Testing : 27/03/2026 – 31/03/2026</li> <li>• Test : pH, TDS, TSS, BOD, COD, OIL &amp; GREASE, and Fecal Coliform, Total Nitrogen, Total Phosphorous.</li> </ul>								
<h4>TEST RESULT</h4>								
Sl. No.	PARAMETERS OF TEST	VALUE					As per MoEF&CC Notification for Sewage Treatment Plant	Test Method
		STP Outlet Railway Colony	STP Outlet Digwadih 12 No Officers Colony	STP Outlet Digwadih 12 No. Supervisor or flat	STP Outlet Jmb. Canteen	STP Outlet- JCPP Canteen		
1.	pH,	6.84	8.23	7.94	7.38	7.96	5.5-9.0	IS-3025(P-11):1983
2.	Total Dissolved Solids, mg/l	506	510	530	580	640	-	IS-3025(P-16):1984
3.	Total Suspended Solids, mg/l	20.0	18.2	19.6	15.0	18.8	20	IS-3025(P-17):1984
4.	Bio chemical Oxygen Demand, mg/l	4.6	3.5	4.0	3.0	4.1	10	IS-3025(P-44):1994
5.	Chemical Oxygen Demand, mg/l	40.0	30.0	36.0	24.0	38.0	50	IS-3025(P-58):2006
6.	Oil & Grease, mg/l	4.4	3.2	3.0	4.4	4.0	-	IS-3025(P-39):2021
7.	Fecal Coliform (FC) (MPN/100ml)	80	70	78	65	68	Desirable 100 & Permissible 230	IS - 1622
8.	Total Nitrogen as N, mg/l	3.2	2.8	3.0	2.6	2.9	10	IS – 3025 (P-34):1988
9.	Total Phosphorus as P, mg/l	0.075	0.046	0.052	0.048	0.050	1.0	IS – 3025 (P-31):1988
Akhilash Kumar Sr. Chemist Aditi R&D Services				Quality Manager Aditi R&D Services, Sindri				
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Ref. No.: - ARDS/25-26/ETP/1

Date: 31/03/2026

### 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: 27/03/2026
- Date of Testing : 27/03/2026 – 31/03/2026
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

### TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE		General Standard for discharge of Environmental Pollutants , Inland Surface water by the MoEF&C	Test Method
		E.T.P. Outlet T.C.H.	E.T.P. Outlet Garage		
1.	pH,	8.41	7.98	5.5-9.0	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	860.6	648	-	IS-3025 (P-16): 1984
3.	Total Suspended Solids, mg/l	60.0	65.6	100	IS-3025(P-17) : 1984
4.	Bio chemical Oxygen Demand, mg/l	2.2	4.1	30	IS-3025 (P-44):1994
5.	Chemical Oxygen Demand, mg/l	18.0	30.3	250	IS-3025 (P-58):2006
6.	Oil & Grease, mg/l	3.6	4.0	10	IS-3025 (P-39):2021

Note : BDL - Below Detection Limit

*Akash Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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# ADITI R&D SERVICES

**Testing Laboratory**

**NABL ACCREDITED & REGISTERED BY JSPCB RANCHI**

**(A Constituent Board of Quality Council of India)**

**ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified**

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Sindri, Industrial Area,  
P.O. - Domgarh, Dist. - Dhanbad  
Jharkhand - 828107  
Email ID: sindriaditi@gmail.com  
Website: aditimdservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/DW/1

Date: 31/03/2026

## 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: 27/03/2026
- Date of Testing : 27/03/2026 – 31/03/2026
- 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 RESULT

Sl. No	PARAMETERS OF TEST	VALUE				IS as per IS 10500:2012		Test Method
		Canteen- Jamadoba Colliery	Canteen- Jamadoba Washery	Canteen Digwadih Colliery	Canteen- 6&7 Pits Colliery	Desirab le	Permi ssible	
1.	Colour, (Hazen Unit)	2	2	3	1	5.00	15.0	IS 3025 (P-4):2021
2.	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (P-5):2018
3.	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 (P-7):2017
4.	Turbidity, NTU	0.7	0.7	2.4	0.7	1.0	5.0	IS 3025 (P-10):1984
5.	pH	7.97	7.98	7.78	7.18	6.5-8.5	No. Relax.	IS-3025 (P-11):1983
6.	Total Hardness as CaCO <sub>3</sub> , mg/l	580	540	524	595	200	600	IS 3025 (P-21):2009
7.	Chloride as Cl, mg/l	122.18	60.12	52.36	17.45	250	1000	IS 3025 (P-32):1988
8.	Res. Free chlorine as Cl <sub>2</sub> mg/l	N.T.	N.T.	N.T.	N.T.	0.20	1.0	IS 3025 (P-26):2021
9.	Total Dissolved Solids, mg/l	860	790	674.1	615	500	2000	IS 3025 (P-16):1984
10.	Calcium as Ca, mg/l	78.4	61.0	60.8	52.8	75	200	IS 3025 (P-40):1991
11.	Copper as Cu, mg/l	0.028	0.019	0.032	0.033	0.05	1.5	IS 3025 (P-42):1992

Continued on Page 2

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- 2 -

Sl. No.	PARAMETERS OF TEST	VALUE				IS as per IS 10500:2012		Test Method
		Canteen-Jamadoba Colliery	Canteen-Jamadoba Washery	Canteen Digwadih Colliery	Canteen - 6&7 Pits Colliery	Desirable	Permissible	
12.	Manganese as Mn, mg/l	0.027	0.036	0.029	0.010	0.10	0.30	IS 3025 (P-59):2006
13.	Sulphate as SO <sub>4</sub> , mg/l	163.83	127.62	120.0	29.58	200	400	IS 3025 (P-24):1986
14.	Nitrate as NO <sub>3</sub> , mg/l	8.12	5.06	7.66	8.68	45	No. Relax	IS 3025 (P-34):1988
15.	Fluoride as F, mg/l	0.10	0.05	0.15	0.18	1.0	1.5	IS 3025 (P-60):2008
16.	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH) mg/l	BDL	BDL	BDL	BDL	0.001	0.002	IS 3025 (P-43):1992
17.	Mercury as Hg, mg/l	BDL	BDL	BDL	BDL	0.001	No. Relax	IS 3025 (P-48):1994
18.	Cadmium as Cd, mg/l	BDL	BDL	BDL	BDL	0.003	No. Relax	IS 3025 (P-41):1992
19.	Arsenic as As, mg/l	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025 (P-37):1988
20.	Cyanide as CN, mg/l	BDL	BDL	BDL	BDL	0.05	No. Relax	IS 3025 (P-27):1986
21.	Lead as Pb, mg/l	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025 (P-47):1994
22.	Zinc as Zn, mg/l,	2.8	2.9	2.6	2.2	5	15	IS 3025 (P-42):1992
23.	Total Coliform, No./100ml	Absent	Absent	Absent	Absent	Absent	Absent	IS 3025 (P-49):1994
24.	Total Chromium as Cr, mg/l	0.046	0.020	0.037	0.033	0.05	No. Relax	IS 3025 (P-52):2003
25.	Mineral Oil, mg/l	BDL	BDL	BDL	BDL	0.5	No. Relax	IS 3025 (P-39):1989
26.	Alkalinity as CaCO <sub>3</sub> , mg/l,	580	432	380.0	56.0	200	600	IS 3025 (P-23):1983
27.	Aluminium as Al, mg/l	BDL	BDL	BDL	BDL	0.03	0.2	IS 3025 (P-55):2003
28.	Boron as B, mg/l	0.21	0.19	0.28	0.16	0.5	1.0	IS 3025 (P-57):2005

NOTE: BDL - Below Detection Limit

*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/25-26/GW/1

Date: 31/03/2026

**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. Bhowra 13 No  
2. Jorapokhar Kushtand  
3. Jamadoba 3 No  
4 Lower Dungari  
5. Mohalbani Basti.
- Date of Sample Collection : 26/03/2026 – 27/03/2026
- Date of Testing : 27/03/2026 to 31/03/2026

**TEST RESULT**

Sl. No	PARAMETERS OF TEST	VALUE					IS as per IS 10500:2012		Test Method
		Bhowra 13 No	Jorapokhar Kushtand	Jamadoba 3 No	Lower Dungari	Mohalbani Basti	Desirable	Permissible	
1.	Depth (In Meter)	5.1	4.8	5.0	5.2	5.9	-	-	-
2.	Temperature °C	26	24	26	26	26	-	-	-
3.	Electrical Conductivity, µmhos/cm	820	2900	1310	750	830	-	-	-
4.	Total Dissolved Solids, mg/l	530	1790	815	480	520	500	2000	IS 3025(P-16):1984
5.	pH	7.72	7.70	7.54	7.65	7.29	6.5-8.5	No Relax	IS-3025(P-11):1983
6.	Total Hardness as CaCO <sub>3</sub> , mg/l	368.0	592.0	520.0	252.0	372.0	200	600	IS 3025(P-21):2009
7.	Calcium as Ca, mg/l	78.4	140.8	40.0	51.2	86.4	75	200	IS 3025(P-40):1991
8.	Magnesium as Mg, mg/l	41.28	77.60	110.8	29.76	37.44	30	100	IS 3025(P-46):1994
9.	Chloride as Cl, mg/l	58.18	341.33	87.27	73.70	44.61	250	1000	IS 3025(P-32):1988
10.	Fluoride as F, mg/l	0.20	0.15	0.05	0.10	0.25	1.0	1.5	IS 3025(P-60):2008
11.	Sulphate as SO <sub>4</sub> , mg/l	60.32	65.18	55.36	60.45	65.20	200	400	IS 3025(P-24):1986
12.	Nitrate as NO <sub>3</sub> , mg/l	8.12	7.86	7.89	8.06	7.72	45	No. Relax	IS 3025(P-34):1988
13.	Alkalinity as CaCO <sub>3</sub> , mg/l,	304.0	532	580.0	236.0	260.0	200	600	IS 3025(P-23):1983

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Sl. No	PARAMETERS OF TEST	VALUE					IS as per IS 10500:2012		Test Method
		Bhowra 13 No	Jorapokhar Kushtand	Jamadoba 3 No	Lower Dungari	MohalbaniB asti	Desirable	Permissible	
14.	Colour, (Hazen Unit)	1	1	1	1	1	5	15	IS 3025 (P-4):2021
15.	Lead as Pb, mg/l	BDL	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025(P-47):1994
16.	Zinc as Zn, mg/l,	2.8	2.9	2.6	2.7	2.5	5	15	IS 3025(P-42):1992
17.	Iron a Fe, mg/l	0.87	0.83	1.15	0.60	0.88	1.0	No. Relax	IS 3025(P-53):2003
18.	Copper as Cu, mg/l	0.028	0.019	0.002	0.014	0.017	0.05	1.5	IS3025 (P-42):1992
19.	Mercury as Hg, mg/l	BDL	BDL	BDL	BDL	BDL	0.001	No. Relax	IS 3025(P-48):1994
20.	Cadmium as Cd, mg/l	BDL	BDL	BDL	BDL	BDL	0.003	No. Relax	IS 3025(P-41):1992
21.	Nickel as Ni, mg/l	BDL	BDL	BDL	BDL	BDL	0.02	No. Relax	IS 3025(P-37):1992
22.	Arsenic as As, mg/l	BDL	BDL	BDL	BDL	BDL	0.01	No. Relax	IS 3025(P-37):1988
23.	Cyanide as CN, mg/l	BDL	BDL	BDL	BDL	BDL	0.05	No. Relax	IS 3025(P-27):1986
24.	Total Chromium as Cr, mg/l	0.036	0.028	0.022	0.024	0.024	0.05	No. Relax	IS 3025(P-52):2003

NOTE: BDL - Below Detection Limit

*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**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 Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 482 / 25  
Date: 31 / 10 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'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/m <sup>3</sup>	RSPM 24 Hourly Limit-300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	09.10.25	Clear	194.5	71.3	16.8	18.4

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit-100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	09.10.25	Clear	69.8	29.4	17.7	19.1
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	09.10.25	Clear	71.9	30.8	16.3	18.2
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	10.10.25	Clear	68.4	28.7	15.6	17.9
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4" E	10.10.25	Clear	73.5	32.6	18.9	20.3

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref: JMB /ENV /LAB /02 / 523 / 25

Date: 12 / 12 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'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/m <sup>3</sup>	RSPM 24 Hourly Limit-300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	10.11.25	Clear	235.7	85.9	18.2	20.6

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit-100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	10.11.25	Clear	90.2	48.6	19.7	21.0
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	10.11.25	Clear	87.6	45.3	17.6	19.5
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	11.11.25	Clear	71.8	32.6	18.2	20.4
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4"E	11.11.25	Clear	82.4	40.5	16.3	18.1

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**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 Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 544 / 25  
Date: 31 / 12 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **DECEMBER'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/m <sup>3</sup>	RSPM 24 Hourly Limit-300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	08.12.25	Clear	254.6	89.2	19.1	21.3

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit-100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	08.12.25	Clear	95.7	54.7	20.1	22.2
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	08.12.25	Clear	91.5	51.2	18.2	20.4
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	10.12.25	Clear	82.0	41.6	16.7	18.6
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4"E	10.12.25	Clear	85.9	44.2	15.8	17.5

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.



Lab. Assistant (Environment)



Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**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 Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 18 / 26

Date: 28 / 01 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **JANUARY\*2026**. 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/m <sup>3</sup>	RSPM 24 Hourly Limit-300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	06.01.26	Clear	276.2	96.5	16.4	18.2

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit-100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	06.01.26	Clear	110.8	58.9	17.9	19.6
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	06.01.26	Clear	104.5	56.1	16.4	18.7
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	08.01.26	Clear	90.2	46.1	15.2	17.3
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4"E	08.01.26	Clear	95.6	48.9	18.3	20.1

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
**Lab. Assistant (Environment)**

  
**Manager (Environment)**

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref: JMB /ENV /LAB /02 / 44 / 26

Date: 02 / 03 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**. 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/m <sup>3</sup>	RSPM 24 Hourly Limit- 300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit- 120 µg/m <sup>3</sup>	NOx 24 Hourly Limit- 120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	09.02.26	Clear	267.9	93.2	18.2	20.1

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit- 100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NOx 24 Hourly Limit- 80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	09.02.26	Clear	106.7	56.4	19.2	21.0
2	Digwadih 12 No. Colony	23°41'42" N/ 86°24'45.3" E	09.02.26	Clear	112.8	58.6	18.4	20.3
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	11.02.26	Clear	92.1	48.9	17.0	19.5
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4"E	11.02.26	Clear	89.2	46.5	20.7	22.0

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.



Lab. Assistant (Environment)



Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Manager, Digwadiah Colliery  
Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 76 / 26

Date: 06 / 04 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**. 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/m <sup>3</sup>	RSPM 24 Hourly Limit-300 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-120 µg/m <sup>3</sup>
1	6&7 Pits Kalimandir area	23°43'15" N/ 86°24'12" E	06.03.26	Clear	251.8	90.8	19.4	21.2

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

S.No	Location	Latitude/ Longitude	Date of Sampling	Weather Condition	PM <sub>10</sub> 24 Hourly Limit-100 µg/m <sup>3</sup>	PM <sub>2.5</sub> 24 Hourly Limit- 60 µg/m <sup>3</sup>	SO <sub>2</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>	NO <sub>x</sub> 24 Hourly Limit-80 µg/m <sup>3</sup>
1	Jamadoba Group Office	23°42'15.3" N/ 86°24'11" E	06.03.26	Clear	96.5	51.2	18.4	20.6
2	Digwadiah 12 No. Colony	23°41'42" N/ 86°24'45.3" E	06.03.26	Clear	89.5	46.3	16.9	18.1
3	New Village Colony, Jamadoba	23°41'51" N/ 86°23'19" E	09.03.26	Clear	86.5	42.1	19.2	21.7
4	Tata Main Hospital, Jamadoba	23°42'36" N/ 86°24'10.4"E	09.03.26	Clear	92.1	48.6	17.1	18.2

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.



Lab. Assistant (Environment)



Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref : JMB/ ENV/ LAB/ 05/470/25

Dated: 31/10/2025

**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 **OCTOBER'2025**. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	21.10.25	41.3	43.5	42.4	33.1	35.3	34.2
2	New Village Colony, Jamadoba	21.10.25	43.1	45.3	44.2	35.3	37.5	36.4
3	6&7 Pits Kalimandir Colony	21.10.25	42.5	44.7	43.6	34.6	36.8	35.7
4	Digwadih 10 No. Colony	21.10.25	42.4	44.6	43.5	34.2	36.4	35.3

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	21.10.25	54.5	57.8	56.2	46.2	49.5	47.9
2	2 Pit Top Kalimandir, Jamadoba	21.10.25	51.3	53.5	52.4	43.5	45.8	44.7
3	Weigh Bridge, Digwadih	21.10.25	46.2	48.4	47.3	38.1	40.3	39.2
4	Canteen Complex, Digwadih	21.10.25	47.2	49.5	48.4	39.4	41.7	40.6
5	Head Office Complex, Digwadih	21.10.25	40.5	42.7	41.6	32.3	34.5	33.4
6	Check Post Security Gate, 6&7 Pits	21.10.25	49.4	51.6	50.5	40.6	42.7	41.7
7	Canteen Complex, 6&7 Pits	21.10.25	42.2	44.4	43.3	34.1	36.3	35.2
8	Fan house- Nitrogen Plant, 6&7 Pits	21.10.25	41.3	43.5	42.4	33.7	35.9	34.8
9	Joota Gate, JCPP	21.10.25	59.6	62.8	61.2	51.4	54.6	53.0
10	Main Gate Stores, JCPP	21.10.25	54.2	57.4	55.8	46.3	49.7	48.0
11	Railway Siding Yard, JCPP	21.10.25	51.3	54.6	53.0	43.5	46.8	45.2

Analysis: All the values are within permissible limit.

This is for your information please.

  
**Lab. Assistant (Environment)**

  
**Sr. Manager (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/ 521/ 25

Dated: 12 / 12 / 2025

**Re: Ambient Noise Level Report**

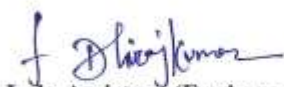
We wish to inform you that Ambient Noise Level Monitoring was carried out in JAMADOBA GROUP in the month of NOVEMBER'2025. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	05.11.25	41.5	43.7	42.6	33.4	35.7	34.6
2	New Village Colony, Jamadoba	05.11.25	42.3	44.5	43.4	34.1	36.3	35.2
3	6&7 Pits Kalimandir Colony	05.11.25	41.2	43.6	42.4	33.5	35.8	34.7
4	Digwadih 10 No. Colony	05.11.25	43.3	45.7	44.5	35.2	37.4	36.3

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	05.11.25	52.3	55.6	54.0	44.5	47.8	46.2
2	2 Pit Top Kalimandir, Jamadoba	05.11.25	50.5	52.8	51.7	42.3	44.7	43.5
3	Weigh Bridge, Digwadih	05.11.25	45.2	47.5	46.4	37.4	39.5	38.5
4	Canteen Complex, Digwadih	05.11.25	46.4	48.7	47.6	38.1	40.3	39.2
5	Head Office Complex, Digwadih	05.11.25	42.3	44.5	43.4	34.5	36.7	35.6
6	Check Post Security Gate, 6&7 Pits	05.11.25	49.7	51.9	50.8	41.4	43.6	42.5
7	Canteen Complex, 6&7 Pits	05.11.25	43.4	45.6	44.5	35.2	37.4	36.3
8	Fan house- Nitrogen Plant, 6&7 Pits	05.11.25	41.6	43.8	42.7	33.5	35.8	34.7
9	Joota Gate, JCPP	05.11.25	57.2	60.4	58.8	49.1	52.3	50.7
10	Main Gate Stores, JCPP	05.11.25	55.6	58.7	57.2	47.3	50.5	48.9
11	Railway Siding Yard, JCPP	05.11.25	50.4	53.6	52.0	42.6	45.8	44.2

Analysis: All the values are within permissible limit.

This is for your information please.



Lab. Assistant (Environment)



Sr. Manager (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/ 05/557/25

Dated: 31/12/2025

**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 **DECEMBER'2025**. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	19.12.25	41.9	43.8	42.9	33.4	35.6	34.5
2	New Village Colony, Jamadoba	19.12.25	42.5	44.7	43.6	34.3	36.5	35.4
3	6&7 Pits Kalimandir Colony	19.12.25	42.4	44.8	43.6	34.5	36.7	35.6
4	Digwadih 10 No. Colony	19.12.25	41.7	43.5	42.6	33.6	35.9	34.8

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	19.12.25	52.5	55.7	54.1	44.2	47.5	45.9
2	2 Pit Top Kalimandir, Jamadoba	19.12.25	50.7	53.9	52.3	42.4	45.7	44.1
3	Weigh Bridge, Digwadih	19.12.25	46.3	48.5	47.4	38.1	40.3	39.2
4	Canteen Complex, Digwadih	19.12.25	46.5	48.8	47.7	38.3	40.5	39.4
5	Head Office Complex, Digwadih	19.12.25	42.7	44.6	43.7	34.5	36.7	35.6
6	Check Post Security Gate, 6&7 Pits	19.12.25	48.5	51.7	50.1	40.7	43.9	42.3
7	Canteen Complex, 6&7 Pits	19.12.25	42.1	44.3	43.2	34.4	36.6	35.5
8	Fan house- Nitrogen Plant, 6&7 Pits	19.12.25	42.3	45.5	43.9	34.5	37.8	36.2
9	Joota Gate, JCPP	19.12.25	58.6	61.4	60.0	50.7	53.9	52.3
10	Main Gate Stores, JCPP	19.12.25	56.4	59.6	58.0	48.3	51.5	49.9
11	Railway Siding Yard, JCPP	19.12.25	50.7	53.9	52.3	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



**Manager (Environment)**

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref : JMB/ ENV/ LAB/ 05/ 28 /26

Dated: 28/01/2026

**Re: Ambient Noise Level Report**

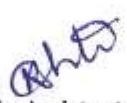
We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **JANUARY'2026**. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	20.01.26	47.3	49.6	48.5	39.5	41.7	40.6
2	New Village Colony, Jamadoba	20.01.26	44.5	46.8	45.7	36.2	38.5	37.4
3	6&7 Pits Kalimandir Colony	20.01.26	49.7	51.5	50.6	41.6	43.8	42.7
4	Digwadih 10 No. Colony	20.01.26	43.2	45.3	44.3	35.4	37.6	36.5

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	20.01.26	58.2	61.5	59.9	50.4	53.2	51.8
2	2 Pit Top Kalimandir, Jamadoba	20.01.26	50.4	53.7	52.1	42.6	45.7	44.2
3	Weigh Bridge, Digwadih	20.01.26	46.2	49.4	47.8	38.1	41.3	39.7
4	Canteen Complex, Digwadih	20.01.26	42.1	44.2	43.2	34.3	36.5	35.4
5	Head Office Complex, Digwadih	20.01.26	39.5	41.7	40.6	31.6	33.7	32.7
6	Check Post Security Gate, 6&7 Pits	20.01.26	45.6	48.8	47.2	37.4	40.6	39.0
7	Canteen Complex, 6&7 Pits	20.01.26	41.3	43.5	42.4	33.6	35.9	34.8
8	Fan house- Nitrogen Plant, 6&7 Pits	20.01.26	46.7	49.4	48.1	38.5	41.7	40.1
9	Joota Gate, JCPP	20.01.26	67.4	70.7	69.1	59.3	62.5	60.9
10	Main Gate Stores, JCPP	20.01.26	57.2	60.4	58.8	49.1	52.3	50.7
11	Railway Siding Yard, JCPP	20.01.26	54.3	57.5	55.9	46.4	49.6	48.0

Analysis: All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

  
Manager (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/ 56 /26

Dated: 02 / 03 / 2026

**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'2026**. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	09.02.26	46.5	48.8	47.7	38.3	40.5	39.4
2	New Village Colony, Jamadoba	09.02.26	45.2	47.4	46.3	37.4	39.7	38.6
3	6&7 Pits Kalimandir Colony	09.02.26	47.4	49.6	48.5	39.2	41.4	40.3
4	Digwadih 10 No. Colony	09.02.26	46.5	48.7	47.6	38.6	40.8	39.7

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	09.02.26	57.6	60.8	59.2	49.4	52.6	51.0
2	2 Pit Top Kalimandir, Jamadoba	09.02.26	50.8	53.7	52.3	42.6	45.9	44.3
3	Weigh Bridge, Digwadih	09.02.26	46.5	49.7	48.1	38.3	41.5	39.9
4	Canteen Complex, Digwadih	09.02.26	42.3	44.5	43.4	34.1	36.3	35.2
5	Head Office Complex, Digwadih	09.02.26	40.1	42.3	41.2	32.3	34.6	33.5
6	Check Post Security Gate, 6&7 Pits	09.02.26	46.4	49.6	48.0	38.6	41.8	40.2
7	Canteen Complex, 6&7 Pits	09.02.26	41.5	43.7	42.6	33.4	35.7	34.6
8	Fan house- Nitrogen Plant, 6&7 Pits	09.02.26	45.2	48.6	46.9	37.5	40.8	39.2
9	Joota Gate, JCPP	09.02.26	66.7	69.9	68.3	58.4	61.6	60.0
10	Main Gate Stores, JCPP	09.02.26	58.4	61.5	60.0	50.2	53.4	51.8
11	Railway Siding Yard, JCPP	09.02.26	53.6	56.8	55.2	45.5	48.7	47.1

**Analysis:** All the values are within permissible limit.

This is for your information please.

  
**Lab. Assistant (Environment)**

  
**Manager (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/ 85 /26

Dated: 06 / 04 / 2026

**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'2026. The results are as given below:

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 55			CPCB Standard- 45		
	<b>Residential Area (Buffer Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	Digwadih 12 No. Colony	13.03.26	46.1	48.3	47.2	38.2	40.5	39.4
2	New Village Colony, Jamadoba	13.03.26	44.3	46.5	45.4	36.4	38.7	37.6
3	6&7 Pits Kalimandir Colony	13.03.26	47.6	49.8	48.7	39.3	41.5	40.4
4	Digwadih 10 No. Colony	13.03.26	45.4	47.6	46.5	37.5	39.8	38.7

S.No	Monitoring Station	Date	Day (06.00 – 22.00 Hrs.)			Night (22.00-06.00 Hrs)		
			CPCB Standard- 75			CPCB Standard- 70		
	<b>Industrial Area (Core Zone)</b>		Min.	Max.	Avg.	Min.	Max.	Avg.
1	2 Pit Main Gate Security Post	13.03.26	55.3	58.6	57.0	47.5	50.7	49.1
2	2 Pit Top Kalimandir, Jamadoba	13.03.26	51.5	54.7	53.1	43.4	46.6	45.0
3	Weigh Bridge, Digwadih	13.03.26	46.2	49.4	47.8	38.5	41.8	40.2
4	Canteen Complex, Digwadih	13.03.26	42.5	44.7	43.6	34.2	36.4	35.3
5	Head Office Complex, Digwadih	13.03.26	40.4	42.6	41.5	32.3	34.6	33.5
6	Check Post Security Gate, 6&7 Pits	13.03.26	45.7	47.9	46.8	37.5	39.7	38.6
7	Canteen Complex, 6&7 Pits	13.03.26	41.3	43.5	42.4	33.4	35.6	34.5
8	Fan house- Nitrogen Plant, 6&7 Pits	13.03.26	46.5	49.8	48.2	38.6	41.8	40.2
9	Joota Gate, JCPP	13.03.26	65.4	68.7	67.1	57.3	60.5	58.9
10	Main Gate Stores, JCPP	13.03.26	57.6	60.9	59.3	49.5	52.7	51.1
11	Railway Siding Yard, JCPP	13.03.26	52.8	55.7	54.3	44.6	47.9	46.3

**Analysis:** All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

  
Manager (Environment)

Copy to: Specialist (OH). TCH

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 477 / 2025

Dated - 31 / 10 / 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 **OCTOBER'2025**.  
The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	21.10.25	12:05 PM	27	7.9	123	710	30.9	284	3.2
2	ETP, TMH- Outlet	21.10.25	12:10 PM	26	7.6	21	678	7.9	106	1.5
3	ETP, Garage- Inlet	21.10.25	10:30 AM	27	7.7	154	816	29.3	264	4.2
4	ETP, Garage- Outlet	21.10.25	10:35 AM	26	7.5	27	742	5.9	82	2.6

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

This is for your information and necessary action please.

*P. Mahanta*

Lab.Assistant (Environment)

*Umesh*

Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 475 / 2025

Dated - 31 / 10 / 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 **OCTOBER'2025**.  
The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	21.10.25	01:05 PM	No Discharge						
2	3 Pit Jamadoba Colliery	21.10.25	12:20 PM	No Discharge						
3	2 Incline Jamadoba Colliery	21.10.25	12:50 PM	No Discharge						
4	6&7 Pits Colliery	21.10.25	11:55 AM	No Discharge						
5	Digwadih Colliery	21.10.25	11:45 AM	No Discharge						

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

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

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 / 476 / 2025

Dated - 31 / 10 / 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 OCTOBER'2025. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Gres
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	21.10.25	10:40 AM	28	8.1	139	936	34.8	306	3.9
2	STP, Jmb. Canteen- Outlet	21.10.25	10:45 AM	27	7.8	16	839	6.3	79	1.2
3	STP, JCPP Canteen- Inlet	21.10.25	12:30 PM	28	7.9	168	884	32.4	278	3.4
4	STP, JCPP Canteen- Outlet	21.10.25	12:35 PM	27	7.6	14	713	6.5	108	2.0
5	STP, Railway Colony- Inlet	21.10.25	11:05 AM	27	8.0	128	876	33.2	316	4.3
6	STP, Railway Colony-Outlet	21.10.25	11:10 AM	26	7.7	11	793	4.8	90	1.6
7	STP, Digwadih 12 No. Officer's colony-Inlet	21.10.25	11:25 AM	28	7.8	135	806	31.8	324	3.9
8	STP, Digwadih 12 No. Officer's colony- Outlet	21.10.25	11:30 AM	27	7.5	20	778	5.1	52	1.9
9	STP, Digwadih 12 No. Supervisor flat - Inlet	21.10.25	11:40 AM	28	8.2	152	810	35.3	284	3.3
10	STP, Digwadih 12 No. Supervisor flat -Outlet	21.10.25	11:45 AM	27	7.8	21	769	6.7	102	1.4

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)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 503 / 2025

Dated - 12 / 12 / 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 **NOVEMBER'2025**.

The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	05.11.25	01:10 PM	No Discharge						
2	3 Pit Jamadoba Colliery	05.11.25	12:25 PM	No Discharge						
3	2 Incline Jamadoba Colliery	05.11.25	12:55 PM	No Discharge						
4	6&7 Pits Colliery	05.11.25	12:05 PM	No Discharge						
5	Digwadih Colliery	05.11.25	11:50 AM	No Discharge						

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

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 / 503 / 2025

Dated - 12 / 12 / 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 **NOVEMBER'2025**.

The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	05.11.25	10:45 AM	26	7.9	146	863	33.1	316	4.1
2	STP, Jmb. Canteen- Outlet	05.11.25	10:50 AM	25	7.7	18	774	5.2	84	1.5
3	STP, JCPP Canteen- Inlet	05.11.25	12:35 PM	26	8.2	133	769	34.1	310	2.9
4	STP, JCPP Canteen- Outlet	05.11.25	12:40 PM	25	8.0	16	695	7.1	94	1.7
5	STP, Railway Colony- Inlet	05.11.25	11:10 AM	26	7.9	137	816	35.1	302	3.9
6	STP, Railway Colony-Outlet	05.11.25	11:15 AM	25	7.6	17	715	5.7	87	1.2
7	STP, Digwadih 12 No. Officer's colony-Inlet	05.11.25	11:30 AM	27	8.1	145	908	33.2	298	3.6
8	STP, Digwadih 12 No. Officer's colony- Outlet	05.11.25	11:35 AM	26	7.8	22	819	6.8	76	1.1
9	STP, Digwadih 12 No. Supervisor flat - Inlet	05.11.25	11:45 AM	26	7.9	137	913	31.2	310	3.7
10	STP, Digwadih 12 No. Supervisor flat -Outlet	05.11.25	11:50 AM	25	7.6	20	847	5.1	108	1.3

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)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 503 / 2025

Dated - 12 / 12 / 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 **NOVEMBER'2025**.

The results are as given below:

S.No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	05.11.25	12:10 PM	27	8.0	99	901	28.5	262	3.1
2	ETP, TMH- Outlet	05.11.25	12:15 PM	26	7.7	19	819	6.8	99	1.2
3	ETP, Garage- Inlet	05.11.25	10:35 AM	27	7.8	112	793	31.5	299	5.1
4	ETP, Garage- Outlet	05.11.25	10:40 AM	26	7.6	22	697	4.6	54	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)

  
Sr. Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

**JAMADOBA GROUP**

S.No	Date	Location	Time	Depth in meter	pH	Electrical Conductivity $\mu$ S/m
1	26.11.25	Purnadih (Jorapokhar)	11:40 AM	2.87	7.2	1140
2	26.11.25	Bhowra 13 No	11:55 AM	1.64	7.4	945
3	26.11.25	Bhowra Gourkhutti	12:20 PM	2.12	7.2	973
4	26.11.25	Digwadih 10 No F & J	01:05 AM	1.73	7.4	1532
5	26.11.25	Kalimela Shivmandir	10:25 AM	0.96	7.1	987
6	26.11.25	Kalimela Kalimandir	10:40 AM	2.68	7.5	1384
7	26.11.25	Lower Dungari	10:10 AM	2.72	7.4	828
8	26.11.25	Upper Dungari	09:20 AM	1.54	7.2	863
9	26.11.25	Digwadih 12 No.	12:40 PM	1.97	7.1	929
10	26.11.25	Kenduadih Basti	09:40 AM	1.27	7.3	994
11	26.11.25	Jorapokhar Kushtand	11:05 AM	3.05	7.5	1427
12	26.11.25	6&7 Pits (Ayodhya Nagri)	01:40 PM	1.56	7.3	1141
13	26.11.25	Jorapokhar Basti Chhattand	01:20 PM	0.92	7.5	1315
14	26.11.25	Jorapokhar Babu Basa	11:25 AM	1.44	7.2	1087



Lab.Assistant (Environment)



Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 547 / 2025  
Dated - 31 / 12 / 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 **DECEMBER**'2025. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	19.12.25	12:25 PM	25	8.4	108	829	29.4	268	2.9
2	ETP, TMH- Outlet	19.12.25	12:30 PM	24	8.2	36	792	7.3	92	1.3
3	ETP, Garage- Inlet	19.12.25	01:20 PM	26	8.2	167	784	32.8	306	4.9
4	ETP, Garage- Outlet	19.12.25	01:25 PM	25	8.0	41	624	7.6	66	2.3

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)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 545 / 2025

Dated - 31 / 12 / 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 **DECEMBER'2025**. The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	19.12.25	09:45 AM	No Discharge						
2	3 Pit Jamadoba Colliery	19.12.25	10:00 AM	No Discharge						
3	2 Incline Jamadoba Colliery	19.12.25	10:20 AM	No Discharge						
4	6&7 Pits Colliery	19.12.25	12:15 PM	No Discharge						
5	Digwadih Colliery	19.12.25	11:55 AM	32	7.8	15	910	3.2	84	2.1

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

This is for your information and necessary action please.



Lab.Assistant (Environment)



Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

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 / 546 / 2025

Dated - 31 / 12 / 2025

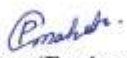
**Sub: STP WATER ANALYSIS REPORT.**

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

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	19.12.25	01:05 PM	25	8.2	122	1026	31.5	294	3.9
2	STP, Jmb. Canteen- Outlet	19.12.25	01:10 PM	24	8.0	32	987	4.8	56	2.1
3	STP, JCPP Canteen- Inlet	19.12.25	12:45 PM	25	8.1	144	1028	33.6	316	3.5
4	STP, JCPP Canteen- Outlet	19.12.25	12:50 PM	24	7.9	21	916	6.2	102	1.8
5	STP, Railway Colony- Inlet	19.12.25	10:35 AM	25	8.0	117	906	33.9	310	4.1
6	STP, Railway Colony-Outlet	19.12.25	10:40 AM	24	7.8	28	816	5.2	70	1.9
7	STP, Digwadih 12 No. Officer's colony-Inlet	19.12.25	11:10 AM	26	8.3	119	814	35.8	306	3.7
8	STP, Digwadih 12 No. Officer's colony- Outlet	19.12.25	11:15 AM	25	8.1	26	706	4.1	54	2.0
9	STP, Digwadih 12 No. Supervisor flat - Inlet	19.12.25	11:30 AM	26	8.0	122	927	30.9	272	4.5
10	STP, Digwadih 12 No. Supervisor flat -Outlet	19.12.25	11:35 AM	25	7.8	32	842	3.9	84	1.6

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)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 21 / 2026

Dated - 28 / 01 / 2026

**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** 2026.  
The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	20.01.26	10:55 AM	26	8.5	119	916	28.6	275	3.1
2	ETP, TMH- Outlet	20.01.26	11:00 AM	25	8.3	14	826	5.9	86	1.1
3	ETP, Garage- Inlet	20.01.26	01:05 PM	26	8.1	143	758	30.6	312	4.6
4	ETP, Garage- Outlet	20.01.26	01:10 PM	25	8.0	16	687	6.2	79	2.2

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)

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 19 / 2026

Dated - 28 / 01 / 2026

**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** 2026. The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	20.01.26	11:15 AM	No Discharge						
2	3 Pit Jamadoba Colliery	20.01.26	11:30 AM	No Discharge						
3	2 Incline Jamadoba Colliery	20.01.26	11:50 AM	No Discharge						
4	6&7 Pits Colliery	20.01.26	10:45 AM	No Discharge						
5	Digwadih Colliery	20.01.26	10:25 AM	No Discharge						

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

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 20 / 2026

Dated - 28 / 01 / 2026

**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'2026. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	20.01.26	12:45 PM	26	7.6	137	1019	35.7	320	4.3
2	STP, Jmb. Canteen- Outlet	20.01.26	12:50 PM	25	7.4	29	982	7.1	88	1.7
3	STP, JCPP Canteen- Inlet	20.01.26	12:30 PM	25	7.5	162	1096	35.1	284	4.1
4	STP, JCPP Canteen- Outlet	20.01.26	12:35 PM	24	7.3	40	1016	4.8	116	1.2
5	STP, Railway Colony- Inlet	20.01.26	12:10 PM	26	7.8	125	1131	34.8	328	4.6
6	STP, Railway Colony-Outlet	20.01.26	12:15 PM	25	7.6	24	1025	7.2	64	2.0
7	STP, Digwadih 12 No. Officer's colony-Inlet	20.01.26	09:45 AM	26	8.4	139	724	30.1	264	2.9
8	STP, Digwadih 12 No. Officer's colony- Outlet	20.01.26	09:50 AM	25	8.2	17	612	4.8	102	1.5
9	STP, Digwadih 12 No. Supervisor flat - Inlet	20.01.26	10:05 AM	26	7.9	143	623	33.7	302	4.1
10	STP, Digwadih 12 No. Supervisor flat -Outlet	20.01.26	10:10 AM	25	7.7	12	589	4.7	70	1.0

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)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 47 / 2026

Dated - 02 / 03 / 2026

**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 2026. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	09.02.26	11:00 AM	27	8.2	103	839	27.4	282	2.5
2	ETP, TMH- Outlet	09.02.26	11:05 AM	26	8.0	19	796	6.1	62	1.4
3	ETP, Garage- Inlet	09.02.26	01:10 PM	26	8.3	132	762	31.4	296	3.9
4	ETP, Garage- Outlet	09.02.26	01:15 PM	25	8.1	20	692	5.8	48	1.8

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

This is for your information and necessary action please.

*P. Saha*

Lab.Assistant (Environment)

*P. Saha*

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 45 / 2026  
Dated - 02 / 03 / 2026

**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'2026**.  
The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	09.02.26	11:20 AM	No Discharge						
2	3 Pit Jamadoba Colliery	09.02.26	11:35 AM	No Discharge						
3	2 Incline Jamadoba Colliery	09.02.26	11:55 AM	No Discharge						
4	6&7 Pits Colliery	09.02.26	10:50 AM	No Discharge						
5	Digwadih Colliery	09.02.26	10:30 AM	No Discharge						

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 46 / 2026

Dated - 02 / 03 / 2026

**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'2026. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	09.02.26	12:50 PM	27	7.8	109	922	34.1	236	5.9
2	STP, Jmb. Canteen- Outlet	09.02.26	12:55 PM	26	7.6	14	873	6.2	68	1.4
3	STP, JCPP Canteen- Inlet	09.02.26	12:35 PM	26	7.7	113	952	36.4	318	5.6
4	STP, JCPP Canteen- Outlet	09.02.26	12:40 PM	25	7.5	35	921	5.8	96	1.1
5	STP, Railway Colony- Inlet	09.02.26	12:15 PM	27	7.9	163	1048	35.7	324	3.2
6	STP, Railway Colony-Outlet	09.02.26	12:20 PM	26	7.8	39	997	6.7	102	2.1
7	STP, Digwadih 12 No. Officer's colony-Inlet	09.02.26	09:50 AM	26	8.2	110	763	29.7	271	3.6
8	STP, Digwadih 12 No. Officer's colony- Outlet	09.02.26	09:55 AM	25	8.0	14	706	3.6	88	1.0
9	STP, Digwadih 12 No. Supervisor flat - Inlet	09.02.26	10:10 AM	26	7.8	114	678	31.4	262	3.8
10	STP, Digwadih 12 No. Supervisor flat -Outlet	09.02.26	10:15 AM	25	7.6	22	622	3.8	52	1.3

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)

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 79 / 2026

Dated - 06 / 04 / 2026

**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'2026.  
The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	ETP, TMH- Inlet	13.03.26	11:55 AM	27	8.3	128	916	29.7	291	3.5
2	ETP, TMH- Outlet	13.03.26	12:05 PM	26	8.1	22	882	5.8	93	1.0
3	ETP, Garage- Inlet	13.03.26	12:55 PM	28	8.2	105	798	29.6	267	4.1
4	ETP, Garage- Outlet	13.03.26	01:00 PM	27	8.0	24	726	6.1	62	1.4

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

This is for your information and necessary action please.

*P. Mahapatra*

Lab.Assistant (Environment)

*B. S. S.*

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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


Ref. No. - JMB / ENV / LAB / 03 / 77 / 2026  
Dated - 06 / 04 / 2026

**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'2026**.  
The results are as given below:

S. No	Location (Final Discharge Point) (Mine's Water)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	2100 mg/l	30 mg/l	250 mg/l	10 mg/l
1	2 Pit Jamadoba Colliery	13.03.26	09:25 AM	No Discharge						
2	3 Pit Jamadoba Colliery	13.03.26	09:40 AM	No Discharge						
3	2 Incline Jamadoba Colliery	13.03.26	10:00 AM	No Discharge						
4	6&7 Pits Colliery	13.03.26	11:45 AM	No Discharge						
5	Digwadih Colliery	13.03.26	11:25 AM	No Discharge						

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

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

Ref. No. - JMB / ENV / LAB / 03 / 78 / 2026

Dated - 06 / 04 / 2026

**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'2026. The results are as given below:

S. No	Location (Final Discharge Point)	Sampling Date	Sampling Time	Temp	pH	TSS	TDS	BOD	COD	Oil & Grease
				< 40°C	6.5-8.5	≤ 10 mg/L	-	≤ 10 mg/L	≤ 50 mg/L	-
1	STP, Jmb. Canteen- Inlet	13.03.26	12:40 PM	28	7.7	119	872	36.2	306	4.1
2	STP, Jmb. Canteen- Outlet	13.03.26	12:45 PM	27	7.5	11	806	5.9	72	1.2
3	STP, JCPP Canteen- Inlet	13.03.26	12:15 PM	27	7.9	127	910	33.4	289	4.7
4	STP, JCPP Canteen- Outlet	13.03.26	12:20 PM	26	7.7	24	897	3.9	106	1.3
5	STP, Railway Colony- Inlet	13.03.26	10:15 AM	28	7.8	102	872	31.2	284	3.7
6	STP, Railway Colony-Outlet	13.03.26	10:20 AM	27	7.6	19	821	5.8	82	1.9
7	STP, Digwadih 12 No. Officer's colony-Inlet	13.03.26	11:05 AM	28	8.1	136	778	32.5	315	4.1
8	STP, Digwadih 12 No. Officer's colony- Outlet	13.03.26	11:10 AM	27	7.9	16	725	4.2	56	1.4
9	STP, Digwadih 12 No. Supervisor flat - Inlet	13.03.26	10:50 AM	28	7.9	146	692	30.7	284	4.2
10	STP, Digwadih 12 No. Supervisor flat -Outlet	13.03.26	10:55 AM	27	7.8	23	654	3.3	92	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.

*P. Sahas*

Lab.Assistant (Environment)

*B. Shal*

Manager (Environment)