



**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/MSBSL/61/134 /2026
May 25th, 2026

Ref.: Environmental Clearance letter No.-J-11015/162/2008-IA.II (M), Dated-19th January 2012.

SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEF&CC, New Delhi to Mahal Saharjuri Bagula Sand Lease, 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-11015/162/2008-IA.II (M), Dated-19th January 2012 issued by Ministry of Environment, Forest and Climate Change, New Delhi.

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

Thanking you,

Yours faithfully,

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

Encl: As above.

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

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

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

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

Proposal No	IA/JH/MIN/7568/2008
Compliance ID	1228585989
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1228585989/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	27-05-2026
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	JHARKHAND
RO/SRO Office Address	Integrated Regional Offices, Ranchi
Note:- 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

Proposal Name	Mahal, Saharjuri, Bagula Sand Lease Mining Project of M/s Tata Steel Limited located in Village(s) Lagla and Mahal, District Bokaro, Jharkhand		
Name of Entity / Corporate Office	Tata Steel Ltd.		
Village(s)	N/A		
District	BOKARO		
Proposal No.	IA/JH/MIN/7568/2008	Category	Non-Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	JHARKHAND	Entity's PAN	*****2803M
MoEF File No.	J-11015/162/2008-IA.II(M)	Entity name as per PAN	UTSAV KASHYAP

Compliance Reporting Details

Reporting Year	2026
Remarks (if any)	Half Yearly EC Compliance submission for October 2025 to March 2026
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office Tata Steel Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	17.40	17.40
Forest	0	0
Others	N/A	N/A
Total	17.4	17.4

Others Area

Sr. no	Other Name	Area Granted	Area Actual
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Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Sand	Million Tons per Annum (MTPA)	N/A	0.1	0	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board, and effectively implement all the conditions stipulated therein.
PPs Submission: Complied The Consent to Establish has been granted by JSPCB vide letter no. JSPCB/RO/DHN/CTO-9250363/2021/36 dated 25.03.2021. The current CTO is valid till 31.03.2026. Renewal CTO application is under progress. All the stipulated conditions in the consent are being complied with.		Date: 26/05/2026
2	Statutory compliance	The project proponent shall comply with section 3 of the Mines Act.
PPs Submission: Complied It is being complied.		Date: 21/05/2026
3	Statutory compliance	The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.
PPs Submission: Complied The Company already has an Environment Policy approved by the Managing Director and it addresses all the issues mentioned. The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is brought to the notice of higher management. The environment management cell directly reports to General Manager and it is reviewed on weekly basis. We have an online system to monitor the statutory requirements and compliance in time. This is reviewed by Board of Directors at company level.		Date: 21/05/2026
4	MISCELLANEOUS	Sand collection shall be done at the middle/ main stream and not at the bank of the river to avoid any change of the river course due to the project.
PPs Submission: Complied Sand excavation is done by leaving 1/5th of the width of the river intact for maintaining the embankment. It will be ensured that no change in the river course takes place.		Date: 21/05/2026
5	AIR QUALITY MONITORING AND PRESERVATION	Particulate level (PM2.5) shall be monitored regularly and the result placed in the public domain.

<p>PPs Submission: Complied Monitoring of PM2.5 has been carried out in this period. The report is given as Annexure-I.</p>		<p>Date: 21/05/2026</p>
6	GREENBELT	The project proponent shall identify the degraded area within the mine lease and undertake plantation/afforestation in the area identified by planting the native species.
<p>PPs Submission: Complied The mine lease area is a riverbed. Hence, we approach the villagers and assist them in planting the native species as well as fruit plants in the villages. Some of the native species are Pipal, Ber, Jamun, Alostromia, Palash, Karanj, Kadamb etc.</p>		<p>Date: 21/05/2026</p>
7	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite of water (surface water and groundwater), if any, required for the project.
<p>PPs Submission: Complied No water is required for the operation of project. Drinking water required by the workers is arranged by the company.</p>		<p>Date: 21/05/2026</p>
8	MISCELLANEOUS	Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
<p>PPs Submission: Complied Adequate monitoring of the health of the vehicles used for transportation of sand is ensured to avoid any oil and grease leakage. Higher capacity trucks have been deployed. Without valid fitness certificates and PUC, the vehicles are not allowed to ply and it is regularly checked.</p>		<p>Date: 21/05/2026</p>
9	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
<p>PPs Submission: Complied The vehicles used are regularly checked and maintained. Only vehicles having PUC certificates can apply. Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded. This is monitored whenever vehicles enter premises at weighbridge gate.</p>		<p>Date: 21/05/2026</p>
10	AIR QUALITY MONITORING AND PRESERVATION	No drilling and blasting operation shall be carried out.
<p>PPs Submission: Complied Not applicable as it is a sand mining project.</p>		<p>Date: 21/05/2026</p>
11	AIR QUALITY MONITORING AND PRESERVATION	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
<p>PPs Submission: Complied Sand being coarse in nature and having high moisture content during gathering and transportation does not get air borne. Sand stored in the sand yards is transferred to underground voids through surface bunkers in a slurry form. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.</p>		<p>Date: 21/05/2026</p>

12	Human Health Environment	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
PPs Submission: Complied As per our policy, PME (Periodical Medical Examination) are conducted at regular intervals.		Date: 21/05/2026
13	Human Health Environment	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
PPs Submission: Complied The workers are from the neighboring villages and hence new housing facilities are not required.		Date: 21/05/2026
14	Statutory compliance	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NOx in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharge water shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.
PPs Submission: Complied The monitoring of the air parameters has been done in this period. There is no use of water for mining operation hence there is no discharge. Details of air analysis are given in Annexure-I. The monitoring reports are regularly uploaded on company's website along with half-yearly EC compliance reports.		Date: 21/05/2026
15	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out of haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
PPs Submission: Complied It is being complied. Water spraying is done on the transportation roads on regular basis. The ambient air quality is regularly monitored and analyzed by own as well as NABL and JSPCB recognized lab and conform to the prescribed standards. Reports are enclosed as Annexure-I.		Date: 21/05/2026
16	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydrogeological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing well and installing new piezometers during the mining operation. The periodic monitoring (at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season) shall be carried out in consultation with the State Ground Water

		Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
PPs Submission: Complied The extraction of sand will be done with utmost care for the environment. There is no extraction of water as well as no change in river course involved hence there will be no impact on the hydrogeological regime. The monitoring report of the ground water level and quality is given as Annexure-I.		Date: 26/05/2026
General Conditions		
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 forests.
PPs Submission: Complied It is being complied with.		Date: 21/05/2026
2	Statutory compliance	No change in the calendar plan including excavation, quantum of sand from river bed and waste should be made.
PPs Submission: Complied It is being complied with.		Date: 21/05/2026
3	Statutory compliance	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.
PPs Submission: Complied No rare species are found in the area.		Date: 21/05/2026
4	AIR QUALITY MONITORING AND PRESERVATION	Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOx monitoring. Location of stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
PPs Submission: Complied The monitoring stations have been established and monitoring jobs are being performed regularly. The ambient air quality analysis reports are attached as Annexure-I.		Date: 21/05/2026
5	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM10) and NOx] should be regularly submitted to the Ministry including its regional office at Bhubaneswar and to the State Pollution Control Board/ Central Pollution Control Board once in six months.

<p>PPs Submission: Complied It is being submitted as Annexure-I in this compliance report.</p>		<p>Date: 21/05/2026</p>
6	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.</p>
<p>PPs Submission: Complied Sand, being coarse in nature and having high moisture content, does not get air borne during gathering and transportation. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.</p>		<p>Date: 21/05/2026</p>
7	<p>Noise Monitoring & Prevention</p>	<p>Measure should be taken for control of noise levels below 85 dBA in work Environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.</p>
<p>PPs Submission: Complied Proper PPEs are provided to all the workers.</p>		<p>Date: 21/05/2026</p>
8	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>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 422f(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of Workshop effluents.</p>
<p>PPs Submission: Complied No waste water generation will take place.</p>		<p>Date: 21/05/2026</p>
9	<p>Human Health Environment</p>	<p>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 undertaken periodically to observe any contraction due to exposure to dust and take corrective measures, if needed</p>
<p>PPs Submission: Complied It will be complied with.</p>		<p>Date: 21/05/2026</p>
10	<p>MISCELLANEOUS</p>	<p>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 Organization.</p>
<p>PPs Submission: Complied We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.</p>		<p>Date: 21/05/2026</p>
11	<p>MISCELLANEOUS</p>	<p>The 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 located at Bhubaneswar.</p>
<p>PPs Submission: Complied Expenditure on Environmental Protection measures is monitored separately. It is provided in the Environment Statement every year. The annual expenditure for the financial year 2024-25 is Rs. 0.201 lakhs for water spraying activities on transport road, plantation and environment monitoring.</p>		<p>Date: 21/05/2026</p>

12	Statutory compliance	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
PPs Submission: Complied The CTE and CTO of the project have been granted by JSPCB. The permission for lifting of sand from the river bed has also been granted by District Mining Officer, Bokaro.		Date: 21/05/2026
13	MISCELLANEOUS	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer (s) of the regional office by furnishing the requisite Data/ information/ Monitoring reports.
PPs Submission: Complied It will be complied with.		Date: 21/05/2026
14	Statutory compliance	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environment clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective zonal office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.
PPs Submission: Complied It is being complied with. We have submitted the six-monthly compliance reports on PARIVESH portal for April-2025 to September-2025. The compliance report was also sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and State Pollution Control Board.		Date: 26/05/2026
15	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban local Body and the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
PPs Submission: Complied It has been complied with.		Date: 21/05/2026
16	Statutory compliance	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.
PPs Submission: Complied The copy of clearance letter has been sent to JSPCB office and its compliance report is being submitted to JSPCB during CTO renewal.		Date: 26/05/2026
17	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as

		amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and also be sent to the respective Regional Office of the Ministry on Environment and Forests, Bhubaneswar by e-mail.
PPs Submission: Complied The environmental statement for financial year 2024-25 has been submitted to JSPCB on 30th September 2025 vide letter no. JMB/ENV/ESSA/05/448/2025 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEF by email at ro.ranchi-mefgov.in.		Date: 21/05/2026
18	Statutory compliance	The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.
PPs Submission: Complied It has been complied with as Annexure II		Date: 21/05/2026
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		
<p style="text-align: center;">Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

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

MAHAL SAHARJURI BAGULA SAND
LEASE

(CAPACITY: 0.1 MTPA RIVER BED SAND)
VILLAGE: MAHAL, SAHARJURI & BAGULA, DIST:
BOKARO, JHARKHAND



TATA STEEL LIMITED, JHARIA DIVISION
P.O. - JAMADOBA, DIST. - DHANBAD,
STATE- JHARKHAND, PIN CODE – 828112

**ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO. - J-
11015/162/2008-IA.II(M) DATED- 19.01.2012 ISSUED BY GOVT. OF INDIA,
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW
DELHI.**

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

S. No.	Condition	Compliance Status
Specific Condition		
(i)	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board, and effectively implement all the conditions stipulated therein.	The Consent to Establish has been granted by JSPCB vide letter no. JSPCB/RO/DHN/CTO-9250363/2021/36 dated 25.03.2021. The current CTO is valid till 31.03.2026. Renewal CTO application is under progress. All the stipulated conditions in the consent are being complied with.
(ii)	The project proponent shall comply with section 3 of the Mines Act.	It is being complied.
(iii)	The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.	The Company already has an Environment Policy approved by the Managing Director and it addresses all the issues mentioned. The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is brought to the notice of higher management. The environment management cell directly reports to General Manager and it is reviewed on weekly basis. We have an online system to monitor the statutory requirements and compliance in time. This is reviewed by Board of Directors at company's level.
(iv)	Sand collection shall be done at the middle/ main stream and not at the bank of the river to avoid any change of the river course due to the project.	Sand excavation is done by leaving 1/5th of the width of the river intact for maintaining the embankment. It will be ensured that no change in the river course takes place.
(v)	Particulate level (PM2.5) shall be monitored regularly and the result placed in the public domain.	Monitoring of PM2.5 has been carried out in this period. The report is given as Annexure-I .
(vi)	The project proponent shall identify the degraded area within the mine lease and undertake plantation/afforestation in the area identified by planting the native species.	The mine lease area is a riverbed. Hence, we approach the villagers and assist them in planting the native species as well as fruit plants in the villages. Some of the native species are Pipal, Ber, Jamun, Alostromia, Palash, Karanj, Kadamb etc.
(xv)	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water	It is being complied. Water spraying is done on the transportation roads on regular basis. The ambient air quality is regularly monitored and analyzed by own as well as NABL & JSPCB recognized lab and

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

	sprinkling shall be carried out of haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	conform to the prescribed standards. Reports are enclosed as Annexure-I .
(viii)	The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydrogeological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing well and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	The extraction of sand will be done with utmost care for the environment. There is no extraction of water as well as no change in river course involved hence there will be no impact on the hydrogeological regime. The monitoring report of the ground water level and quality is given as Annexure-I .
(vii)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite of water (surface water and groundwater), if any, required for the project.	No water is required for the operation of project. Drinking water required by the workers is arranged by the company.
(viii)	Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.	Adequate monitoring of the health of the vehicles used for transportation of sand is ensured to avoid any oil & grease leakage. Higher capacity trucks have been deployed. Without valid fitness certificates and PUC, the vehicles are not allowed to ply and it is regularly checked.
(xi)	Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out	The vehicles used are regularly checked and maintained. Only vehicles having PUC certificates can apply. Transportation of

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

	through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	sand is always done via tarpaulin-covered trucks which are optimally loaded. This is monitored whenever vehicles enter premises at weighbridge gate.
(x)	No drilling and blasting operation shall be carried out.	Not applicable as it is a sand mining project.
(xi)	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Sand being coarse in nature and having high moisture content during gathering & transportation does not get air borne. Sand stored in the sand yards is transferred to underground voids through surface bunkers in a slurry form. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.
(xii)	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	As per our policy, PME's (Periodical Medical Examination) are conducted at regular intervals.
(xiii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The workers are from the neighboring villages and hence new housing facilities are not required.
(xvi)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NOx in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharge water shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	The monitoring of the air parameters has been done in this period. There is no use of water for mining operation hence there is no discharge. Details of air analysis are given in Annexure-I . The monitoring reports are regularly uploaded on company's website along with half-yearly EC compliance reports.

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

B.	GENERAL CONDITIONS	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and forests.	It is being complied with.
(ii)	No change in the calendar plan including excavation, quantum of sand from river bed and waste should be made.	It is being complied with.
(iii)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	No rare species are found in the area.
(iv)	Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOx monitoring. Location of stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	The monitoring stations have been established and monitoring jobs are being performed regularly. The ambient air quality analysis reports are attached as Annexure-I .
(v)	Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM10) and NOx] should be regularly submitted to the Ministry including its regional office at Bhubaneswar and to the State Pollution Control Board/ Central Pollution Control Board once in six months.	It is being submitted as Annexure-I in this compliance report.
(vi)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Sand, being coarse in nature and having high moisture content, does not get air borne during gathering & transportation. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.
(vii)	Measure should be taken for control of noise levels below 85 dBA in work Environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Proper PPE's are provided to all the workers.

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

(viii)	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 422f(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of Workshop effluents.	No waste water generation will take place.
(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 undertaken periodically to observe any contraction due to exposure to dust and take corrective measures, if needed	It will be complied with.
(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 Organization.	We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.
(xi)	The 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 located at Bhubaneswar.	Expenditure on Environmental Protection measures is monitored separately. It is provided in the Environment Statement every year. The annual expenditure for the financial year 2024-25 is Rs. 0.201 lakhs for water spraying activities on transport road, plantation and environment monitoring.
(xii)	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The CTE and CTO of the project have been granted by JSPCB. The permission for lifting of sand from the river bed has also been granted by District Mining Officer, Bokaro.
(xiii)	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer (s) of the regional office by furnishing the requisite Data/ information/ Monitoring reports.	It will be complied with.
(xiv)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environment clearance conditions	It is being complied with. We have submitted the six-monthly compliance reports on PARIVESH portal for April-2025 to September-2025. The compliance



Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

	including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective zonal office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	report was also sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and State Pollution Control Board.
(xv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban local Body and the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	It has been complied with.
(xvi)	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.	The copy of clearance letter has been sent to JSPCB office and its compliance report is being submitted to JSPCB during CTO renewal.
(xvii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and also be sent to the respective Regional Office of the Ministry on Environment and Forests, Bhubaneswar by e-mail.	The environmental statement for financial year 2024-25 has been submitted to JSPCB on 30 th September 2025 vide letter no. JMB/ENV/ESSA/05/448/2025 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEF by email at ro.ranchi-mef@gov.in.
(xviii)	The project authorities should advertise at least in two local newspapers of the	It has been complied with as Annexure II

Compliance status of Environmental Clearance of Mahal, Saharjuri, Bagula Sand Lease Mining project of M/s Tata Steel Ltd., Village Lagla and Mahal, Dist. Bokaro, Jharkhand vide MoEF&CC Letter no J-11015/162/2008-IA.II (M) dated January 12, 2012

	<p>District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.</p>	
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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

ADITI R&D SERVICES		Testing Laboratory		NABL ACCREDITED	
		(A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified		Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 829107 Email ID: sindriadi@gmail.com Website: aditirndeservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608	
Ref. No.: - ARDS/25-26/ AAQ/2			Date: 20/11/2025		
TEST REPORT OF AMBIENT AIR QUALITY					
<ul style="list-style-type: none"> Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND) Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024 Date of Sample Collection : 14/11/2025 to 15/11/2025 Date of Testing : 16/11/2025 to 19/11/2025 Test Procedure : As per IS-5182 					
TEST RESULTS					
LOCATION – LAGLA GRAM PANCHYAT					
		Avg. Ambient Temperature	27°C	Avg. Humidity	42%
Sl No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	61.12	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.34	60 µg/m ³		
3.	SO ₂ , µg/m ³	18.66	80 µg/m ³		
4.	NO ₂ , µg/m ³	29.10	80 µg/m ³		
5.	Ozone, µg/m ³	14.43	180 µg/m ³		
6.	NH ₃ , µg/m ³	13.20	400 µg/m ³		
7.	CO, mg/m ³	0.68	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		
NOTE: BDL - Below Detection Limit					
P. Kishor Kumar Sr. Chemist Aditi R&D Services				Quality Manager Aditi R&D Services, Sindri	
Statements : 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. 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.					

Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)



ADITI R&D SERVICES

Testing Laboratory

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Website: aditirdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

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

Date: 20/11/2025

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. – DHANBA D (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 14/11/2025 to 15/11/2025
- Date of Testing : 16/11/2025 to 19/11/2025
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION – ICCHAR HIGH SCHOOL				
	Avg. Ambient Temperature	27 ^o C	Avg. Humidity	42%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	63.38	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.74	60 µg/m ³	
3.	SO ₂ , µg/m ³	19.20	80 µg/m ³	
4.	NO ₂ , µg/m ³	29.16	80 µg/m ³	
5.	Ozone, µg/m ³	15.16	180 µg/m ³	
6.	NH ₃ , µg/m ³	13.82	400 µg/m ³	
7.	CO, mg/m ³	0.63	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, ng/m ³	BDL	6 ng/m ³	
10.	Ni, ng/m ³	BDL	20 ng/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³	

NOTE: BDL - Below Detection Limit

Akhilesh Kumar
Sr. Chemist
Aditi R&D Services







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




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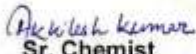


Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

ADITI R&D SERVICES		Testing Laboratory		NABL ACCREDITED	
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Ref. No.: - ARDS/25-26/ AAQ/4			Date: 20/11/2025		
TEST REPORT OF AMBIENT AIR QUALITY					
<ul style="list-style-type: none"> Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND) Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024 Date of Sample Collection : 14/11/2025 to 15/11/2025 Date of Testing : 16/11/2025 to 19/11/2025 Test Procedure : As per IS-5182 					
TEST RESULTS					
LOCATION – RAILWAY COLONY , BHOJUDIH					
Avg. Ambient Temperature		27 ^o C	Avg. Humidity		42%
Sl No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	78.28	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	56.34	60 µg/m ³		
3.	SO ₂ , µg/m ³	20.18	80 µg/m ³		
4.	NO ₂ , µg/m ³	28.62	80 µg/m ³		
5.	Ozone, µg/m ³	13.68	180 µg/m ³		
6.	NH ₃ , µg/m ³	12.42	400 µg/m ³		
7.	CO, mg/m ³	0.92	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		
NOTE: BDL - Below Detection Limit					
 Sr. Chemist Aditi R&D Services				 Quality Manager Aditi R&D Services, Sindri	
Statements :					
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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

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Testing Laboratory NABL ACCREDITED (A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified			
Ref. No.: - ARDS/25-26/ AAQ/3		Date: 20/11/2025	
TEST REPORT OF AMBIENT AIR QUALITY			
<ul style="list-style-type: none"> Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND) Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024 Date of Sample Collection : 14/11/2025 to 15/11/2025 Date of Testing : 16/11/2025 to 19/11/2025 Test Procedure : As per IS-5182 			
TEST RESULTS			
LOCATION – SAHARJURI SCHOOL			
	Avg. Ambient Temperature	27°C	Avg. Humidity 42%
Sl No.	Particulars	Value	CPCB STANDARD
1.	Particulate Matter (PM ₁₀), µg/m ³	62.34	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.18	60 µg/m ³
3.	SO ₂ , µg/m ³	18.22	80 µg/m ³
4.	NO ₂ , µg/m ³	28.30	80 µg/m ³
5.	Ozone, µg/m ³	14.68	180 µg/m ³
6.	NH ₃ , µg/m ³	14.20	400 µg/m ³
7.	CO, mg/m ³	0.72	4 mg/m ³
8.	Pb, µg/m ³	BDL	1 µg/m ³
9.	As, ng/m ³	BDL	6 ng/m ³
10.	Ni, ng/m ³	BDL	20 ng/m ³
11.	Benzene, µg/m ³	BDL	5 µg/m ³
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³
NOTE: BDL - Below Detection Limit			
 Sr. Chemist Aditi R&D Services		 Quality Manager Aditi R&D Services, Sindri	
			
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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

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	Ref. No.: - ARDS/25-26/MINER./1	Date: 20/11/2025			
<u>TEST REPORT OF MINERALOGICAL COMPOSITION</u> <u>OF PARTICULATE MATTER</u>					
<ul style="list-style-type: none"> • Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDI H) DIST. - DHANBAD (JHARKHAND) • Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024 • Date of Sample Collection : 15/11/2025 • Date of Testing : 16/11/2025 to 17/11/2025 					
<u>TEST RESULTS</u>					
SI No.	Particulars	Mineralogical Composition (%)			
		SiO ₂	FeO	Al ₂ O ₃	CaO
1.	Lagla Gram Panchayat	1.36	0.09	0.16	1.8
2.	Saharjuri School	1.28	0.04	0.13	1.6
 Sr. Chemist Aditi R&D Services				 Quality Manager Aditi R&D Services, Sindr	
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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

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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:20/11/2025		TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)							
Date of Monitoring									
14/11/2025 To 15/11/2025		Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant				
Work Order 4700126557/932 Date:- 29/05/2024		27	42	Clear	Not in operational				
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 Residential Area	Night Time Residential Area
SAND LEASE AREA									
1.	Lagla Gram Panchayat	64.6	56.2	62.18	48.6	42.6	46.56	65.00	55.00
2.	Saharjuri School	64.7	53.5	62.01	53.7	50.8	52.49		
3.	Icchar High School	63.8	51.7	61.05	52.2	50.5	51.43		
4.	Railway Colony, Bhojudih	60.2	51.2	57.7	54.2	50.1	52.62		

Pankaj Kumar
Sr. Chemist
Aditi R&D Services



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

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)



ADITI R&D SERVICES

Testing Laboratory

NABL ACCREDITED

(A Constituent Board of Quality Council of India)

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

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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

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

Date: 20/11/2025

TEST REPORT OF SURFACE WATER

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024
- Sample Code : 1. Gowai River (Up Stream)
2. Gowai River (Dn. Stream)
3. Izri River (Up Stream)
4. Izri River (Dn. Stream)
- Date of Sample Collection : 15/11/2025
- Date of Testing : 16/11/2025 To 20/11/2025
- Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO₄

TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS 2296 Class - C	Test Method
		Gowai River (Up Stream)	Gowai River (Dn. Stream)	Izri River (Up Stream)	Izri River (Dn. Stream)		
1.	pH	7.6	7.5	7.2	7.4	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	222	235	234	243	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1.2	1.4	1.7	1.8	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen ,mg/l	6.1	6.5	6.2	6.4	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.6	1.6	1.4	1.3	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	17.45	23.37	25.21	21.33	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.3	0.3	0.2	0.3	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	43.25	43.60	44.20	40.07	400	IS-3025 (P-24):1986

Pravish Kumar
Sr. Chemist
Aditi R&D Services



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

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

	ADITI R&D SERVICES Testing Laboratory	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
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Ref. No.: - ARDS/25-26/AAQ/1

Date: 20/03/2026

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. – DHANBA D (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 16/03/2026 – 17/03/2026
- Date of Testing : 18/03/2026 – 20/03/2026
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION – ICCHAR HIGH SCHOOL			
Environmental Conditions During Testing and Analysis		Ambient Temperature	27°C ± 2°C
		Relative Humidity	50% ± 10%
Sl No.	Particulars	Value	CPCB STANDARD
1.	Particulate Matter (PM ₁₀), µg/m ³	63.38	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.74	60 µg/m ³
3.	SO ₂ , µg/m ³	19.20	80 µg/m ³
4.	NO ₂ , µg/m ³	29.16	80 µg/m ³
5.	Ozone, µg/m ³	15.16	180 µg/m ³
6.	NH ₃ , µg/m ³	13.82	400 µg/m ³
7.	CO, mg/m ³	0.63	4 mg/m ³
8.	Pb, µg/m ³	BDL	1 µg/m ³
9.	As, ng/m ³	BDL	6 ng/m ³
10.	Ni, ng/m ³	BDL	20 ng/m ³
11.	Benzene, µg/m ³	BDL	5 µg/m ³
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³

NOTE: BDL - Below Detection Limit

Achlesh Kumar
Sr. Chemist
Aditi R&D Services



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

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Environmental Conditions During Testing and Analysis		Ambient Temperature	27°C ± 2°C	Relative Humidity	50% ± 10%
Sl No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	61.12	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.34	60 µg/m ³		
3.	SO ₂ , µg/m ³	18.66	80 µg/m ³		
4.	NO ₂ , µg/m ³	29.10	80 µg/m ³		
5.	Ozone, µg/m ³	14.43	180 µg/m ³		
6.	NH ₃ , µg/m ³	13.20	400 µg/m ³		
7.	CO, mg/m ³	0.68	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		

NOTE: BDL - Below Detection Limit

Prakash Kumar
Sr. Chemist
Aditi R&D Services


Quality Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/ AAQ/2
Date: 20/03/2026

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 16/03/2026 – 17/03/2026
- Date of Testing : 18/03/2026 – 20/03/2026
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION – LAGLA GRAM PANCHYAT


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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Environmental Conditions During Testing and Analysis		Ambient Temperature	27°C ± 2°C	Relative Humidity	50% ± 10%
SI No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	62.34	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	52.18	60 µg/m ³		
3.	SO ₂ , µg/m ³	18.22	80 µg/m ³		
4.	NO ₂ , µg/m ³	28.30	80 µg/m ³		
5.	Ozone, µg/m ³	14.68	180 µg/m ³		
6.	NH ₃ , µg/m ³	14.20	400 µg/m ³		
7.	CO, mg/m ³	0.72	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		

NOTE: BDL - Below Detection Limit


 Sr. Chemist
 Aditi R&D Services




 Quality Manager
 Aditi R&D Services, Sindri

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Environmental Conditions During Testing and Analysis		Ambient Temperature	27°C ± 2°C	Relative Humidity	50% ± 10%
SI No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	78.28	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	56.34	60 µg/m ³		
3.	SO ₂ , µg/m ³	20.18	80 µg/m ³		
4.	NO ₂ , µg/m ³	28.62	80 µg/m ³		
5.	Ozone, µg/m ³	13.68	180 µg/m ³		
6.	NH ₃ , µg/m ³	12.42	400 µg/m ³		
7.	CO, mg/m ³	0.92	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		

NOTE: BDL - Below Detection Limit

Akshay Kumar
Sr. Chemist
Aditi R&D Services


Quality Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/ AAQ/4 Date: 21/03/2026

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 17/03/2026 to 18/03/2026
- Date of Testing : 19/03/2026 – 21/03/2026
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION – RAILWAY COLONY , BHOJUDIH

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

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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:21/03/2026	TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)			
Date of Monitoring	Avg. Ambient Temperature	Average Humidity	Weather Condition	Status of the plant
16/03/2026 to 18/03/2026	27°C ± 2°C	50% ± 10%	Clear	Not in operational
Work Order 4700126557/932 Date:- 29/05/2024				

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
LOCATION								Residential Area	Residential Area
SAND LEASE AREA								65.00	55.00
1.	Lagla Gram Panchayat	64.6	56.2	62.18	48.6	42.6	46.56		
2.	Saharjuri School	64.7	53.5	62.01	53.7	50.8	52.49		
3.	lechar High School	63.8	51.7	61.05	52.2	50.5	51.43		
4.	Railway Colony, Bhojudih	60.2	51.2	57.7	54.2	50.1	52.62		

Apekish Kumar
Sr. Chemist
Aditi R&D Services



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Quality Manager
Aditi R&D Services, Sindri

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Sl No.	Particulars	Mineralogical Composition (%)			
		SiO ₂	FeO	Al ₂ O ₃	CaO
1.	ICCHAR HIGH SCHOOL	1.21	0.04	0.18	2.1
2.	RAILWAY COLONY , BHOJUDIH	1.24	0.06	0.19	1.9



ADITI R&D SERVICES

Testing Laboratory

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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

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

Date: 23/03/2026

TEST REPORT OF MINERALOGICAL COMPOSITION OF PARTICULATE MATTER

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 18/03/2026
- Date of Testing : 19/03/2026 – 23/03/2026

TEST RESULTS

Sl No.	Particulars	Mineralogical Composition (%)			
		SiO ₂	FeO	Al ₂ O ₃	CaO
1.	ICCHAR HIGH SCHOOL	1.21	0.04	0.18	2.1
2.	RAILWAY COLONY , BHOJUDIH	1.24	0.06	0.19	1.9

Ashish Kumar
Sr. Chemist
Aditi R&D Services



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Quality Manager
Aditi R&D Services, Sindri

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

	<h1>ADITI R&D SERVICES</h1> <h2>Testing Laboratory</h2>	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
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Ref. No.: - ARDS/25-26/SW/1

Date: 23/03/2026

TEST REPORT OF SURFACE WATER

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024
- Sample Code : 1. Gowai River (Up Stream)
2. Gowai River (Dn. Stream)
3. Izri River (Up Stream)
4. Izri River (Dn. Stream)
- Date of Sample Collection : 16/03/2026 – 17/03/2026
- Date of Testing : 18/03/2026 – 23/03/2026
- Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO₄

TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS 2296 Class - C	Test Method
		Gowai River (Up Stream)	Gowai River (Dn. Stream)	Izri River (Up Stream)	Izri River (Dn. Stream)		
1.	pH	7.67	7.55	7.91	7.90	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	310	320	295	300	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	0.3	0.3	0.3	0.2	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.44	6.08	5.76	5.92	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.0	1.1	0.86	0.84	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	54.30	56.24	71.76	69.82	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.1	0.1	0.05	0.05	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	70.86	71.81	66.91	64.93	400	IS-3025 (P-24):1986

Achlesh Kumar
Sr. Chemist
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Quality Manager
Aditi R&D Services, Sindri

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Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Ambient Air Quality Analysis Report

Period- October'25 to December'25

Name of Industry : Mahal Saharjuri Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	October'25	November'25	December'25
Mahal School Near Izri River	13.10.2025/ Clear	12.11.2025/ Clear	17.12.2025/ Clear
Lagla Gram Panchayat	13.10.2025/ Clear	12.11.2025/ Clear	17.12.2025/ Clear
Bagula School	14.10.2025/ Clear	13.11.2025/ Clear	18.12.2025/ Clear
Shahar Juri School	14.10.2025/ Clear	13.11.2025/ Clear	18.12.2025 Clear

Location	Latitude/ Longitude	Date	PM ₁₀	PM _{2.5}	SO ₂	NO _x
			PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	PM _{2.5} Level : 24 Hourly Limit-60µg/m ³	SO _x Level: 24 Hourly Limit- 80µg/m ³	NO _x Level: 24 Hourly Limit- 80µg/m ³
Mahal School Near Izri River	23°38'06.1"N / 86°23'41.2" E	13.10.2025	72.1	47.9	16.6	19.1
		12.11.2025	69.4	50.2	18.6	21.2
		17.12.2025	70.6	51.2	19.5	22.4
Lagla Gram Panchayat	23°37'21.3" N/ 86°23'35.3" E	13.10.2025	73.6	52.4	18.2	21.6
		12.11.2025	65.2	49.6	17.9	22.6
		17.12.2025	69.7	47.2	20.4	23.8
Bagula School	23°36'27.3" N/ 86°21'59.7" E	14.10.2025	71.5	46.8	19.1	24.7
		13.11.2025	70.4	48.2	19.1	22.0
		18.12.2025	75.6	50.1	15.8	18.2
Shahar Juri School	23°36'26.6" N/ 86°20'58.9" E	14.10.2025	68.2	45.9	16.2	18.7
		13.11.2025	64.9	50.1	15.4	18.6
		18.12.2025	76.0	53.7	19.8	22.5
Minimum			64.9	45.9	15.4	18.2
Maximum			76.0	53.7	20.4	24.7
Average			70.6	49.44	18.05	21.28

Manager (Environment)

Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Ambient Air Quality Analysis Report

Period- January'26 to March'26

Name of Industry : Mahal Saharjuri Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	January'2026	February'2026	March'2026
Mahal School Near Izri River	19.01.2026/ Clear	16.02.2026/ Clear	10.03.2026/ Clear
Lagla Gram Panchayat	19.01.2026/ Clear	16.02.2026/ Clear	10.03.2026 Clear
Bagula School	20.01.2026 /Clear	17.02.2026/ Clear	11.03.2026/ Cloudy
Shahar Juri School	20.01.2026/ Clear	17.02.2026/ Clear	11.03.2026/ Cloudy

Location	Latitude/ Longitude	Date	PM ₁₀	PM _{2.5}	SO ₂	NO _x
			PM ₁₀ Level: 24 Hourly Limit-100µg/m ³	PM _{2.5} Level: 24 Hourly Limit- 60µg/m ³	SO _x Level: 24 Hourly Limit- 80µg/m ³	NO _x Level: 24 Hourly Limit- 80µg/m ³
Mahal School Near Izri River	23°38'06.1"N / 86°23'41.2" E	19.01.2026	70.1	54.1	20.2	23.8
		16.02.2026	62.9	49.7	19.9	21.6
		10.03.2026	63.8	49.1	17.9	20.2
Lagla Gram Panchayat	23°37'21.3" N/ 86°23'35.3" E	19.01.2026	68.6	52.0	18.2	22.3
		16.02.2026	60.1	47.2	17.6	19.5
		10.03.2026	61.2	48.0	19.4	21.0
Bagula School	23°36'27.3" N/ 86°21'59.7" E	20.01.2026	68.2	54.3	20.7	23.9
		17.02.2026	63.7	52.1	17.0	20.2
		11.03.2026	60.1	49.8	18.4	22.1
Shahar Juri School	23°36'26.6" N/ 86°20'58.9" E	20.01.2026	66.5	47.2	18.7	20.4
		17.02.2026	71.4	51.4	19.2	21.0
		11.03.2026	62.6	46.3	16.7	19.6
Minimum			60.1	46.3	16.7	19.5
Maximum			71.4	54.3	20.7	23.9
Average			64.93	50.1	18.65	21.3



Manager (Environment)

Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Ground Water Quality Analysis

Ground water level fluctuation in and around Core & Buffer zone area of sand mining lease
Post- Monsoon Season- November'2025

S.No	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	14.11.2025	Prem Singhdih	10:00AM	3.25	7.3	572
2	14.11.2025	Lagla	11:05AM	3.16	7.4	642
3	14.11.2025	Alakdih	11:40AM	3.10	7.1	712
4	14.11.2025	Joradih	12:55PM	2.92	7.2	617
5	14.11.2025	SEB Quarters	01:10PM	2.99	7.4	652
6	14.11.2025	Kargali	02:40PM	2.73	7.3	639
7	14.11.2025	Kumargora	03:10PM	2.61	7.2	619
8	14.11.2025	Bhojudih	03:35PM	2.30	7.4	584
9	14.11.2025	Mahal	04:00PM	2.10	7.2	630
10	14.11.2025	Sudamdih	04:25PM	2.62	7.3	582

Manager (Environment)

Winter Season – January'2026

S.No	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	20.01.2026	Prem Singhdih	09:40AM	3.42	7.4	592
2	20.01.2026	Lagla	12.05PM	3.26	7.3	654
3	20.01.2026	Alakdih	11:15AM	3.19	7.2	719
4	20.01.2026	Joradih	01:55PM	2.99	7.3	612
5	20.01.2026	SEB Quarters	11:40AM	3.10	7.5	663
6	20.01.2026	Kargali	02:05PM	2.82	7.4	642
7	20.01.2026	Kumargora	11:35AM	2.72	7.3	633
8	20.01.2026	Bhojudih	12:45PM	2.41	7.5	592
9	20.01.2026	Mahal	12:20PM	2.23	7.3	641
10	20.01.2026	Sudamdih	12:25PM	2.71	7.4	595

Manager (Environment)

Ambient Air Quality and Ground Water Quality Report (Period – October'2025 to March'2026)

Surface Water Quality Analysis

Sl. No.	Location	Sampling Date	Sampling Time	Temp	pH	TSS	BOD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	30 mg/l	10 mg/l
1.	River Gowai Up Sttream	12.03.2026	10:40 AM	28.1	7.6	24	2.4	0.5
2.	River Damodar Down Stream	12.03.2026	11.20 AM	29.3	7.5	22	3.1	0.2
3.	Lagla (Pond)	12.03.2026	02:10PM	27.4	7.4	30	2.8	0.6
4.	AlakhdiH(Pond)	12.03.2026	02.:20 PM	28.0	7.5	29	3.2	0.4
5.	JoradiH (Pond)	12.03.2026	11:40 AM	26.8	7.4	27	3.0	0.5
6.	SEB Quarters (Pond)	12.03.2026	11:30 AM	28.7	7.6	32	3.4	0.3
7.	Kargali (Pond)	12.03.2026	12:25 PM	27.4	7.5	28	2.6	0.2
8.	Kumargora (Pond)	12.03.2026	12:50 PM	28.1	7.6	26	3.7	0.5
9.	Bhojudih (Pond)	12.03.2026	12:40 PM	27.5	7.4	21	2.9	0.4



Manager (Environment)

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Date **11-2-12**

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सूचना

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