

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/**250** /2025 May 28th, 2025

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 MoEFCC, New Delhi to Mahal Saharjuri Bagula Sand Lease, Tata Steel Limited, Dhanbad for the period October-24 to March-2025.

Dear Sir,

We are enclosing herewith compliance report for the period **October-24 to March-2025** for the EC granted vide letter no.-J-11015/162/2008-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

5/30/25, 6:27 PM Home Page

Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/JH/MIN/7568/2008	
Compliance ID	128146547	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128146547/2025	
Reporting Year	2025	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	30-05-2025	
RO/SRO Name	Shri Senthil Kumar Sampath	
RO/SRO Email	agmu156@ifs.nic.in	
State	JHARKHAND	
RO/SRO Office Address	Integrated Regional Offices, Ranchi	
Note:- SMS and E-Mail has been sent to Shri Senthil Kumar S	ampath, JHARKHAND with Notification to Project Proponent.	

Half Yearly Compliance Report 2025 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

Plot / Survey / Khasra
No.

State

JHARKHAND

J-11015/162/2008IA.II(M)

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

Compliance Reporting Details

Reporting Year 2025

Half Yearly EC

Remarks (if any)

Compliance submission

for October 2024 to More

for October 2024 to March

2025

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office

Tata Steel Ltd.

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

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	
l	Statutory compliance	The project proponent shall obtain Consent to Estable Consent to Operate from the Jharkhand State Pollution Board, and effectively implement all the conditions state.	n Control
The Con 9250363		y JSPCB vide letter no. JSPCB/RO/DHN/CTO- rent CTO is valid till 31.03.2026. All the conditions as with.	Date: 27/05/2025
2	Statutory compliance	The project proponent shall comply with section 3 o Act.	f the Mines
	Ibmission: Complied g complied.		Date: 27/05/2025
3	Statutory compliance	The Company shall submit within 3 months their po Corporate Environment Responsibility which should i provide for (i) Standard operating process / process to focus any infringement / deviation / violation of the er forest norms / conditions, (ii) Hierarchical system or A order of the company to deal with the environmental i ensuring compliance with the EC conditions and (iii) reporting of non-compliances / violations of environmental beard of Directors of the company and / or shareh stakeholders.	nter-alia bring into nvironmental of Administrative ssues and for System of nental norms to
The Conaddresse Environmenticed in the properties of higher it is review.	s all the issues mentioned. The statumental laws and regulations is regulated at divisional level. If any management. The environment ma	Policy approved by the Managing Director and it as of adherence to the policy and compliance to arly discussed at higher levels. Any non-compliance y issue is beyond our control, it is brought to the notice magement cell directly reports to General Manager and online system to monitor the statutory requirements and ard of Directors at companies level.	Date: 27/05/2025
4	MISCELLANEOUS	Sand collection shall be done at the middle/ main str the bank of the river to avoid any change of the river of the project.	
Sand exc	abmission: Complied eavation is done by leaving 1/5th of ment. It will be ensured that no chan	the width of the river intact for maintaining the ge in the river course takes place.	Date: 27/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Particulate level (PM2.5) shall be monitored regular placed in the public domain.	ly and the resu
	Ibmission: Complied ng of PM2.5 has been carried out in	this period. The report is given as Annexure-I.	Date: 27/05/2025
6	GREENBELT	The project proponent shall identify the degraded armine lease and undertake plantation/afforestation in the	

identified by planting the native species.

the na		e approach the villagers and assist them in planting the villages. Some of the native species are Pipal, Ber, etc.	Date: 27/05/2025
7	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall obtain necessary prior competent authorities for drawl of requisite of water and groundwater), if any, required for the project.	
No wa	Submission: Complied ater is required for the operation of processor company.	ject. Drinking water required by the workers is arranged	Date: 27/05/2025
8	MISCELLANEOUS	Appropriate mitigative measures shall be taken to of the river in consultation with the State Pollution C shall be ensured that there is no leakage of oil and gr from the vehicles used for transportation.	Control Board. I
Adeqı any oi	l and grease leakage. Higher capacity	nicles used for transportation of sand is ensured to avoid trucks have been deployed. Without valid fitness owed to ply and it is regularly checked.	Date: 27/05/2025
9	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions shall be kept under control an monitored. The mineral transportation shall be carried covered trucks only and the vehicles carrying the minoverloaded.	ed out through tl
DDc	Submission: Complied		
The vo	ehicles used are regularly checked and	maintained. Only vehicles having PUC certificates can e via tarpaulin-covered trucks which are optimally enter premises at weighbridge gate.	Date: 27/05/2025
The vo	ehicles used are regularly checked and Transportation of sand is always done	via tarpaulin-covered trucks which are optimally	27/05/2025
The very apply. Ioadec	ehicles used are regularly checked and Transportation of sand is always done I. This is monitored whenever vehicles AIR QUALITY MONITORING AND	e via tarpaulin-covered trucks which are optimally senter premises at weighbridge gate. No drilling and blasting operation shall be carried	27/05/2025 out.
The vo apply. loaded 10 PPs Not ap	chicles used are regularly checked and Transportation of sand is always done d. This is monitored whenever vehicles AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	e via tarpaulin-covered trucks which are optimally senter premises at weighbridge gate. No drilling and blasting operation shall be carried	out. Date: 27/05/2025 dequate number and unloading we efficient dust
The vocapply. Iloadeconstant and the second	AIR QUALITY MONITORING AND PRESERVATION AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project. Submission: Complied obeing coarse in nature and having high not get air borne. Sand stored in the san	Mineral handling area shall be provided with the a of high efficiency dust extraction system. Loading a areas including all the transfer points should also har control arrangements. These should be properly mai operated. moisture content during gathering and transportation and yards is transferred to underground voids through dust control measures while transporting of sand is in	out. Date: 27/05/2025 dequate number and unloading we efficient dust
The verapply. loaded 10 PPs Not ap 11 PPs Sand I does r surface	AIR QUALITY MONITORING AND PRESERVATION AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project. AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project. Submission: Complied being coarse in nature and having high not get air borne. Sand stored in the sar we bunkers in a slurry form. However, or	Mineral handling area shall be provided with the a of high efficiency dust extraction system. Loading a areas including all the transfer points should also har control arrangements. These should be properly mai operated. moisture content during gathering and transportation and yards is transferred to underground voids through dust control measures while transporting of sand is in	out. Date: 27/05/2025 dequate number and unloading we efficient dust and Date: 27/05/2025

27/05/2025 As per our policy, PMEs (Periodical Medical Examination) are conducted at regular intervals. 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, 13 **Human Health Environment** medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. Date: **PPs Submission:** Complied 27/05/2025 The workers are from the neighboring villages and hence new housing facilities are not required. 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 14 Statutory compliance 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 Date: The monitoring of the air parameters has been done in this period. There is no use of water for 27/05/2025 mining operation hence there is no discharge. Details of air analysis are given in Annexure-I. The monitoring reports are regularly uploaded on companies website along with half-yearly EC compliance reports. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high AIR QUALITY levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out of 15 MONITORING AND **PRESERVATION** 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 Date: It is being complied. Water spraying is done on the transportation roads on regular basis. The 27/05/2025 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. 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 WATER QUALITY mining operation. The periodic monitoring (at least four times in a MONITORING AND 16 year- pre-monsoon (April-May), monsoon (August), post-monsoon **PRESERVATION** (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 correctives shall be carried out.	e measures

PPs Submission: Complied

The extraction of sand is done with utmost care of 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: 27/05/2025

General Conditions

Sr.No.	Condition Type	Condition Details	
1	Statutory compliance	No change in mining technology and scope of work made without prior approval of the Ministry of Envir forests.	
	abmission: Complied g complied with.		Date: 27/05/2025
2	Statutory compliance	No change in the calendar plan including excavatio sand from river bed and waste should be made.	n, quantum of
	abmission: Complied g complied with.		Date: 27/05/2025
3	Statutory compliance	Conservation measures for protection of flora and f & buffer zone should be drawn up in consultation wi forest and wildlife department and effectively implem	th the local
	abmission: Complied species are found in the area.		Date: 27/05/2025
1	AIR QUALITY MONITORING AND PRESERVATION	Atleast four ambient air quality-monitoring stations established in the core zone as well as in the buffer zero (Particulate matter with size less than 10micron i.e., I monitoring. Location of stations should be decided be meteorological data, topographical features and environment ecologically sensitive targets and frequency of monit undertaken in consultation with the State Pollution C	one for RSPM PM10) and NO ased on the conmentally and oring should be
The mor	abmission: Complied nitoring stations have been establi pient air quality analysis reports an	shed and monitoring jobs are being performed regularly. re attached as Annexure-I.	Date: 27/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality [(RSPM(Particulate maless than 10micron i.e., PM10) and NOx] should be resubmitted to the Ministry including its regional office Bhubaneswar and to the State Pollution Control Board Pollution Control Board once in six months.	egularly e at
	abmission: Complied g submitted as Annexure-I in this	s compliance report.	Date: 27/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	Fugitive dust emissions from all the sources should regularly. Water spraying arrangement on haul roads unloading and at transfer points should be provided a maintained.	, loading and

Sand, t gatheri		moisture content, does not get air borne during ontrol measures while transporting of sand is in and optimal loading.	Date: 27/05/2025
7	Noise Monitoring & Prevention	Measure should be taken for control of noise levels in work Environment. Workers engaged in operation should be provided with ear plugs / muffs.	
	Submission: Complied PPEs are provided to all the workers.		Date: 27/05/2025
8	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (Workshop and Waste water should be properly collected, treated so as to conform prescribed under GSR 422f(E) dated 19th May 1993 December 1993 or as amended from time to time. Oi should be installed before discharge of Workshop eff	n to the standar and 31st 1 and Grease tra
	Submission: Complied ste water generation will take place.		Date: 27/05/2025
9	Human Health Environment	Personnel working in dusty area should wear prote devices and they should also be provided with adequ information on safety and health aspect. Occupations Surveillance programme of the worker should be une periodically to observe any contraction due to expositake corrective measures, if needed	ate training and al Health lertaken
	Submission: Complied be complied with.		Date: 27/05/2025
10	MISCELLANEOUS	A separate Environmental Management cell with s personnel should be set-up under the control of a sen who will report directly to the Head of the Organizat	ior executive,
We hav	Submission: Complied we a separate Environmental Managemental Cell is directly to General Mar	ent Cell with qualified personnel. The reporting of nager of the Division.	Date: 27/05/2025
11	MISCELLANEOUS	The funds earmarked for environmental protection be kept in separate A/C and should not be diverted for Year wise expenditure should be reported to this min regional office located at Bhubaneswar.	or other purpos
Expend Enviro	nment Statement every year. The annua	asures is monitored separately. It is provided in the all expenditure for the financial year 2023-24 is Rs. ansport road, plantation and environment monitoring.	Date: 27/05/2025
12	Statutory compliance	The project authorities should inform to the Region at Bhubaneswar regarding date of financial closures approval of the project by the concerned authorities a start of land development work.	and final
The C7	Submission: Complied IE and CTO of the project have been grade river bed has also been granted by Dieser in the project have been granted by Dieser is a subject to the project have been granted by Dieser is a subject to the project have been granted by Dieser is a subject to the project have been granted by Dieser is a subject to the project have been granted by Dieser is a subject to the project have been granted by Dieser is a subject have b	ranted by JSPCB. The permission for lifting of sand istrict Mining Officer, Bokaro.	Date: 27/05/2025

13	MISCELLANEOUS	authorities should extend full co-operation to the offic regional office by furnishing the requisite Data/ inform Monitoring reports.	
	Submission: Complied be complied with.		Date: 27/05/2025
14	Statutory compliance	The project proponent shall submit six monthly report of compliance of the stipulated environment clearance including results of monitored data (both in hard copie e-mail) to the Ministry of Environment and Forests, it Office Bhubaneswar, the respective zonal office of C Control Board and the State Pollution Control Board. shall upload the status of compliance of the environment conditions, including results of monitored data on the shall update the same periodically. It shall simultaneous the Regional Office of the Ministry of Environment at Bhubaneswar, the respective Zonal Officer of Central Control Board and the State Pollution Control Board.	e conditions es as well as by s Regional entral Pollution The proponent ental clearance ir website and usly be sent to nd Forests,
It is be	Submission: Complied ing complied with. We are submitt for October -2024 to March -2025	ting the six-monthly compliance reports on PARIVESH 5.	Date: 27/05/2025
15	MISCELLANEOUS	A copy of the clearance letter shall be sent by the proconcerned Panchayat, Zila Parisad / Municipal Corport local Body and the Local NGO, if any, from whom surepresentations, if any, were received while processing. The clearance letter shall also be put on the website of by the proponent.	ration, Urban ggestions / g the proposal.
	Submission: Complied peen complied with.		Date: 27/05/2025
16	Statutory compliance	The State Pollution Control Board should display a clearance letter at the Regional Office, District Indust the Collector's Office / Tehsildar's Office for 30 days	ry Centre and
			Date:
The co	Submission: Complied py of clearance letter has been sen ted to JSPCB.	t to JSPCB office and its compliance report is also	27/05/2025
The co	py of clearance letter has been sen	The environmental statement for each financial year March in Form-V as is mandated to be submitted by t proponent to the concerned State Pollution Control Bornescribed under the Environment (Protection) Rules, amended subsequently, shall also be put on the websit company along with the status of compliance of envir clearance conditions and also be sent to the respective Office of the Ministry on Environment and Forests, B e-mail.	e ending 31st the project pard as 1986, as the of the commental Regional

18	Statutory compliance	The project authorities should advertise at least in newspapers of the District or State in which the prowidely circulated, one of which shall be in the vemathe locality concerned, within 7 days of the issue of letter informing that the project has been accorded eclearance and a copy of the clearance letter is availated Pollution Control Board and also at website of the Menvironment and Forests at http://envfor.nic.in and same should be forwarded to the Regional Office of located at Bhubaneswar.	ject is located and acular language of the clearance environmental able with the State Ministry of a copy of the
	ubmission: Complied een complied with.		Date: 27/05/2025

Visit Remarks Last Site Visit Report Date: N/A Additional Remarks:

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

HALF YEARLY COMPLIANCE REPORT

(PERIOD: OCTOBER'24 – MARCH'25)

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.

S. No.	Condition	Compliance Status
Specific	c 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. All the conditions as stipulated 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.
(vii)	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

	sprinkling shall be carried out of haul	conform to the prescribed standards.
	roads. It should be ensured that the	Reports are enclosed as Annexure-I.
	Ambient Air Quality parameters conform	
	to the norms prescribed by the Central	
	Pollution Control Board in this regard.	
(viii)	The project proponent shall undertake	The extraction of sand is done with utmost
	adequate safeguard measures during	care of the environment. There is no
	extraction of river bed material and ensure	extraction of water as well as no change in
	that due to this activity the	river course involved hence there will be no
	hydrogeological regime of the	impact on the hydrogeological regime. The
	surrounding area shall not be affected.	monitoring report of the ground water level
	Regular monitoring of ground water level	and quality is given as Annexure-I.
	and quality shall be carried out around the	1 5 6
	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.	
(ix)	The project proponent shall obtain	No water is required for the operation of
	necessary prior permission of the	project. Drinking water required by the
	competent authorities for drawl of	workers is arranged by the company.
	requisite of water (surface water and	
	groundwater), if any, required for the	
	project.	
(x)	Appropriate mitigative measures shall be	Adequate monitoring of the health of the
	taken to prevent pollution of the river in	vehicles used for transportation of sand is
	consultation with the State Pollution	ensured to avoid any oil & grease leakage.
	Control Board. It shall be ensured that	Higher capacity trucks have been deployed.
	there is no leakage of oil and grease in the	Without valid fitness certificates and PUC,
	river from the vehicles used for	the vehicles are not allowed to ply and it is
	transportation.	regularly checked.
(xi)	Vehicular emissions shall be kept under	The vehicles used are regularly checked and
	control and regularly monitored. The	maintained. Only vehicles having PUC
	mineral transportation shall be carried out	certificates can apply. Transportation of

	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.
(xii)	No drilling and blasting operation shall be carried out.	Not applicable as it is a sand mining project.
(xiii)	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.
(xiv)	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.
(xv)	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.

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

(viii) Ind	ustrial waste water (Workshop and	No waste water generation will take place.
	aste water from the mine) should be	waste water generation will take place.
	perly collected, treated so as to	
	nform to the standards prescribed	
	ler GSR 422f(E) dated 19th May 1993	
	` '	
	1 31st December 1993 or as amended	
	m time to time. Oil and Grease trap	
	ould be installed before discharge of	
	orkshop effluents.	
	sonnel working in dusty area should	It will be complied with.
	ar protective respiratory devices and	
	y should also be provided with	
ade	equate training and information on	
saf	ety and health aspect.	
Oc	cupational Health Surveillance	
pro	gramme of the worker should be	
unc	dertaken periodically to observe any	
	atraction due to exposure to dust and	
	e corrective measures, if needed	
	separate Environmental Management	We have a separate Environmental
	with suitable qualified personnel	Management Cell with qualified personnel.
	ould be set-up under the control of a	The reporting of Environmental Cell is
	ior executive, who will report directly	directly to General Manager of the
	he Head of the Organization.	Division.
	e funds earmarked for environmental	Expenditure on Environmental Protection
` ′	tection measures should be kept in	measures is monitored separately. It is
	erate A/C and should not be diverted	provided in the Environment Statement
for		every year. The annual expenditure for the
	penditure should be reported to this	financial year 2023-24 is Rs. 0.403 lakhs for
_	nistry and its regional office located at	water spraying activities on transport road,
	ubaneswar.	plantation and environment monitoring.
, ,	e project authorities should inform to	The CTE and CTO of the project have been
the	C	granted by JSPCB. The permission for
	ubaneswar regarding date of financial	lifting of sand from the river bed has also
	sures and final approval of the project	been granted by District Mining Officer,
_	the concerned authorities and the date	Bokaro.
of s	start of land development work.	
(xiii) The	e regional office of this ministry	It will be complied with.
loc	ated at Bhubaneswar shall monitor	
cor	npliance of the stipulated conditions.	
The	e project authorities should extend full	
	operation to the officer (s) of the	
	ional office by furnishing the requisite	
-	ta/ information/ Monitoring reports.	
		To the hadron arms 1' 1 - 24 - W/
	e project proponent shall submit six	It is being complied with. We are
	nthly reports on the status of	submitting the six-monthly compliance
	• •	· · · · · · · · · · · · · · · · · · ·
	inpliance of the stipulated circonment clearance conditions	reports on PARIVESH poertal for October -2024 to March -2025.

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at least in two local newspapers of the	(xviii)		It has been complied with.
at least in two local newspapers of the		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 vemacular 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 Forests and http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.



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

Date: 30/11/2024

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

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: 22/11/2024 To 23/11/2024 **Date of Testing**

: 25/11/2024 To 27/11/2024

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity	52%
SI No.	Particulars	Value	CPCB STANDA	ARD
1.	Particulate Matter (PM ₁₀), µg/m ³	73.97	100 μg/m³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	43.64	60 μg/m³	4
3.	SO _{2,} µg/m ³	18.81	80 μg/m³	
4.	NO _{2,} µg/m ³	27.76	80 μg/m ³	
5.	Ozone, µg/m³	17.12	180 µg/m³	
6.	NH ₃ , µg/m ³	19.65	400 μg/m³	
7.	CO, mg/m ³	0.79	4 mg/m ³	
8.	Pb, µg/m³	BDL	1 μg/m³	
9.	As, ng/m ³	BDL	6 ng/m³	
10.	Ni, ng/m³	BDL	20 ng/m³	
11.	Benzene, µg/m³	BDL	5 μg/m³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³	

NOTE: BDL - Below Detection Limit





Aditi R&D Services, Sindri

- The test report refers only to the particular item(s) submitted for testing.
- 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.



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Date: 30/11/2024

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

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: 22/11/2024 To 23/11/2024

Date of Testing

: 25/11/2024 To 27/11/2024

Test Procedure

TEST RESULTS

: As per IS-5182

	LOCATION - LAG	LA GRAM PA	INCHTAT		
	Avg. Ambient Temperature	25°C	Avg. Humidity	52%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	64.28	100 μg/m³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	38.44	60 μg/m³		
3.	SO ₂ , µg/m ³	16.75	80 μg/m³		
4.	NO _{2,} µg/m ³	26.74	80 μg/m³		
5.	Ozone, µg/m³	16.86	180 μg/m³		
6.	NH ₃ , µg/m ³	14.38	400 μg/m³		
7.	CO, mg/m ³	0.52	4 mg/m ³		
8.	Pb, µg/m³	BDL	1 μg/m³		
9.	As, ng/m³	BDL	6 ng/m³	-	
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 μg/m³	- 2	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit





Aditi R&D Services, Sindri

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

Date: 30/11/2024

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: 22/11/2024 To 23/11/2024
 Date of Testing: 25/11/2024 To 27/11/2024

• Test Procedure : As per IS-5182

TEST RESULTS

	LOCATION - SAHARJURI SCHOOL							
	Avg. Ambient Temperature	25°C	Avg. Humidity	52%				
SI No.	Particulars	Value	CPCB STAND	ARD				
1.	Particulate Matter (PM ₁₀), µg/m ³	62.79	100 µg/m³					
2.	Particulate Matter (PM _{2.5}), µg/m ³	37.71	60 μg/m³					
3.	SO _{2,} µg/m ³	15.48	80 µg/m³					
4.	NO _{2,} µg/m ³	26.96	80 μg/m ³					
5.	Ozone, µg/m³	18.20	180 µg/m³					
6.	NH ₃ , µg/m ³	14.88	400 μg/m³	5				
7.	CO, mg/m ³	0.62	4 mg/m ³					
8.	Pb, µg/m³	BDL	1 μg/m³					
9.	As, ng/m³	BDL	6 ng/m ³					
10.	Ni, ng/m ³	BDL	20 ng/m ³					
11.	Benzene, µg/m³	BDL	5 μg/m³	7				
12.	Benzoapyrene ng/m³	BDL	1 ng/m³					

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 30/11/2024

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

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: 22/11/2024 To 23/11/2024
 Date of Testing: 25/11/2024 To 27/11/2024

Test Procedure : As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	25°C	Avg. Humidity	52%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	73.20	100 µg/m³		
2.	Particulate Matter (PM _{2.6}), µg/m ³	42.75	60 μg/m³	4	
3.	SO ₂ , µg/m ³	18.58	80 µg/m³		
4.	NO _{2,} µg/m ³	28.76	80 µg/m³		
5.	Ozone, µg/m³	20.81	180 µg/m³		
6.	NH ₃ , µg/m ³	16.43	400 μg/m³		
7.	CO, mg/m ³	0.78	4 mg/m ³		
8.	Pb, μg/m³	BDL	1 µg/m³		
9.	As, ng/m³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 μg/m³	- 3	
12.	Benzoapyrene ng/m³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit





Technical Manager Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

	Ref. No	o. & Date	е		NAME AND ADDRESS OF THE CLIENT					
ARI	DS/24-25/ NOIS	E/1 Dat	e:30/11	/2024	TATA STEEL JHARIA DIVISION					
	Date of I	Monitori	ina		TATA STEEL COLLIERY					
			1.5	SAND	LEASE AR	EA, BHOJU	DIH)			
						DIST	DHANBAD	(JHARKHA	ND)	
22/11/2024 To 23/11/2024				,			Average Humidity (%)	Weather Condition	Status of the plant	
	Work Order 4700126557/932 Date:- 29/05/2024				25		52	Clear	Not in operational	
				MONI	TORING	RESUL	TS			
SI. No	Place of Monitoring			10 PM)	Night Time (10 PM to 6 AM) Avg. dB(A)			Noise level (Ambient standard) for Industrial Are as per CPCB Noise Pollutio (Regulation and Control) (Amendment) Rules , 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq		
	LOCATION MAX MIN AVG. d		AVG. dB(B(A) MAX MIN AVERAGE		AVERAGE	Day Time Residential	Night Time Residential		
SAND LEASE AREA				Leq			dB(A) Leq	Area	Area	
Lagla Gram Panchayat		64.8	50.4	61.94	49.6	43.8	47.6		15.	
2.	Saharjuri School	61.7	58.2	60.29	54.7	44.5	52.09	65.00	55.00	
3.	Icchar High School	59.8	52.7	57.56	43.8	35.4	41.38			
4.	Railway Colony, Bhojudih	60.8	50.3	58.16	48.9	40.3	46,45	1	76.	





Technical Manager Aditi R&D Services, Sindri

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

Date: 30/11/2024

TEST REPORT OF MINERALOGICAL COMPOSITION OF PARTICULATE MATTER

Name of the industry : TATA STEE

: 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: 23/11/2024

Date of Testing

: 25/11/2024 To 27/11/2024

TEST RESULTS

SI No.	Particulars	Mineralogical Composition (%)					
		SiO ₂	FeO	Al ₂ O ₃	CaO		
1.	Lagala Gram Panchayat	1.46	0.05	0.18	1.92		
2.	Saharjuri School	1.37	0.04	0.16	1.84		





Technical Manager Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/SW/1 Date: 30/11/2024

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 :

23/11/2024

Date of Testing

25/11/2024 To 29/11/2024

Test

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

TEST RESULT

				N. W. Marin		
SI. No.	PARAMETERS OF TEST		VA	LUE		Test Method
		Gowai River (Up Stream)	Gowai River (Dn. Stream)	Izri River (Up Stream)	Izri River (Dn. Stream)	
1.	pH	8.0	7.9	7.8	7.9	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	295	206	300	304	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1.6	1.5	2.6	3.6	IS-3025 (P-10):1984
4.	Dissolved Oxygen ,mg/l	5.1	5.3	5.4	4.6	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.2	1.9	0.8	2.0	IS-3025 (P-44):1994
6.	Chloride as CI, mg/l	21.33	325	25.21	23.27	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.08	0.06	0.04	0.05	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	32.5	29.7	39.5	38.5	IS-3025 (P-24):1986





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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/AAQ/1 Date: 23/02/2025

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 : 17/02/2025 To 18/02/2025 Date of Testing

: 19/02/2025 To 22/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	30°C	Avg. Humidity	21%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	70.27	100 µg/m³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	41.46	60 µg/m³		
3.	SO ₂ , µg/m ³	17.87	80 µg/m³		
4.	NO ₂ , µg/m ³	26.37	80 µg/m³		
5.	Ozone, µg/m³	16.26	180 µg/m³		
6.	NH ₃ , µg/m ³	18.67	400 µg/m³		
7.	CO, mg/m ³	0.75	4 mg/m ³		
8.	Pb, μg/m³	BDL	1 μg/m ³		
9.	As, ng/m ³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		

NOTE: BDL - Below Detection Limit

Sr. Chemist/ Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 23/02/2025

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

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 : 17/02/2025 To 18/02/2025

Date of Testing

: 19/02/2025 To 22/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	Avg. Ambient Temperature	30°C	Avg. Humidity	212%	
SI No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	61.07	100 µg/m³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	36.52	60 µg/m³ -		
3.	SO ₂ , µg/m ³	15.91	80 µg/m³		
4.	NO _{Z,} µg/m ³	25.40	80 µg/m³		
5.	Ozone, µg/m³	16.02	180 µg/m²		
6.	NH ₃ , µg/m ³	13.66	400 µg/m³		
7.	CO, mg/m ³	0.49	4 mg/m ³		
8.	Pb, µg/m³	BDL	1 µg/m³		
9.	As, ng/m³	BDL	6 ng/m³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 μg/m ³		
12.	Benzoapyrene ng/m³	BDL	1 rig/m ³		

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 23/02/2025

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

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.

Date of Testing

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

Date of Sample Collection : 17/02/2025 To 18/02/2025

: 19/02/2025 To 22/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	LOCATION - S	AHARJURI S	CHOOL		
	Avg. Ambient Temperature	30°C	Avg. Humidity	21%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	59.65	100 µg/m³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	35.82	60 µg/m³		
3.	SO ₂ , µg/m ³	14.71	80 µg/m³		
4.	NO _{2,} µg/m ³	25.61	80 µg/m³		
5.	Ozone, µg/m³	17.29	180 µg/m³		
6.	NH ₃ , µg/m ³	14.14	400 µg/m ³		
7.	CO, mg/m ³	0.59	4 mg/m ³		
8.	Pb, µg/m³	BDL	1 µg/m³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m³	BDL	1 ng/m ²		

NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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

Date: 23/02/2025

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 : 17/02/2025 To 18/02/2025

Date of Testing

: 19/02/2025 To 22/02/2025

Test Procedure

: As per IS-5182

TEST RESULTS

	LOCATION - RAILW	AY COLONY	, RHOJODIH		
	Avg. Ambient Temperature	30°C	Avg. Humidity	21%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	69.54	100 µg/m³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	40.61	60 µg/m³		
3.	SO ₂ , µg/m ³	17.65			
4.	NO ₂ , µg/m ³	27.32	80 µg/m³		
5.	Ozone, µg/m³	19.77	180 µg/m³		
6.	NH ₃ , µg/m ³	15.61	400 µg/m³		
7.	CO, mg/m ³	0.74	4 mg/m ³		
8.	Pb, µg/m³	BDL	1 µg/m³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m³	BDL	20 ng/m³		
11.	Benzene, µg/m³	BDL	5 μg/m³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m³		

NOTE: BDL - Below Detection Limit

Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date					NAME AND ADDRESS OF THE CLIENT					
ARDS/24-25/ NOISE/1 Date:19/02/2025				/2025	TATA STEEL JHARIA DIVISION					
Date of Monitoring 17/02/2025 To 18/02/2025						SAND	LEASE AF	COLLIERY REA, BHOJU	DIH)	
					Avg. Ave Ambient Hun		Average lumidity (%)	Weather Condition	Status of the plant	
Work Order 4700126557/932 Date:- 29/05/2024					30		21	Clear	Not in operational	
_				MONI	TORING	RESUL	TS			
SI. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)		(6 AM to 10 PM) (10 PM to 6 AM)		6 AM)	Noise level (Ambient standard) for Industrial Are as per CPCB Noise Pollutio (Regulation and Control) (Amendment) Rules , 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq Day Time Night Time			
	LOCATION	MAX	MIN	AVG. dB((A) MAX	MIN	AVERAGE	Residential	· Residential	
SAN	ND LEASE AREA		Danishing	Leq	one Commons	-010.00	dB(A) Leq	Area	Area	
1.	Lagla Gram Panchayat	61.56	47.88	58.73	47.12	41.61	45.26			
2.	Saharjuri School	58.61	55.29	57.26	46.50	33.63	43.71	65.00	55.00	
3.	Icchar High School	56.81	47.78	54.31	41.61	38.28	40.26		w i	
4.	Railway Colony, Bhojudih	58.71	51.96	56.53	51.96	42.27	49.39			

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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

Date: 21/02/2025

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 : 18/02/2025

Date of Testing : 19/02/2025 To 20/02/2025

TEST RESULTS

SI No.	Particulars	Mineralogical Composition (%)					
		SiO ₂	FeO	Al ₂ O ₃	CaO		
1.	Icchar High School	1.38	0.095	0.17	1.82		
2.	Railway Colony, Bhojudih	1.30	0.093	0.15	1.75		

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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Date: 25/02/2025 Ref. No.: - ARDS/24-25/SW/1

TEST REPORT OF SURFACE WATER

Name of the industry

: TATA STEEL JHARIA DIVISION

TATA STEEL COLLIERY

(SAND LEASE AREA, BHOJUDIH)

Work Order Ref. NO.

DIST. - DHANBAD (JHARKHAND) : 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:

17/02/2025

Date of Testing

19/02/2025 To 24/02/2025

Test

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

TEST DESILIT

			- ADMINISTRATION OF THE PERSON NAMED IN COLUMN	RESULT		I look as	Toot
SI.	PARAMETERS		VA	LUE		Limit as	Test
No.	OF TEST	Gowai River (Up Stream)	Gowai River (Dn. Stream)	Izri River (Up Stream)	Izri River (Dn. Stream)	per IS 2296 Class - C	Method
1.	pH	7.6	7.8	7.6	7.5	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	322	312	395	402	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1	1	1	1	3.57	IS-3025 (P-10):1984
4.	Dissolved Oxygen ,mg/l	5.2	5.2	4.9	4.8	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.4	1.8	1.8	1.9	3.0	IS-3025 (P-44):1994
6.	Chloride as CI, mg/l	60.1	50.4	83.3	81.4	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.3	0.3	0.2	0.2	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	26.7	29.5	32.7	29.5	400	IS-3025 (P-24):1986



Technical Manager Aditi R&D Services, Sindri

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Ambient Air Quality Analysis Report

Period- October'24 to December'24

Name of Industry : Mahal Saharjuri Sand Mining Project No. of sampling points : 4

Compliant Location	Date of Sampling/ Weather Condition					
Sampling Location	October'24	November'24	December'24			
Mahal School Near Izri River	23.10.2024/ Cloudy	28.11.2024/ Clear	18.12.2024/ Clear			
Lagla Gram Panchayat	23.10.2024/ Cloudy	28.11.2024/ Clear	18.12.2024/ Clear			
Bagula School	24.10.2024/ Cloudy	29.11.2024/ Clear	19.12.2024/ Clear			
Shahar Juri School	24.10.2024/ Cloudy	29.11.2024/ Clear	19.12.2024/ Clear			

	Latitude/		PM 10	PM 2.5	SO_2	NOx
Location	Longitude	Date	PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	PM _{2.5} Level : 24 Hourly Limit-60μg/m ³	SOx Level: 24 Hourly Limit- 80µg/m ³	NOx Level: 24 Hourly Limit- 80µg/m ³
Mahal	23°38'06.1'N /	23.10.2024	66.3	35.2	16.5	22.6
School Near Izri	86°23'41.2" E	28.11.2024	67.6	36.7	15.8	20.3
River		18.12.2024	62.5	33.4	15.2	19.5
Lagla	23°37'21.3" N/	23.10.2024	65.8	37.6	16.4	22.7
Gram	86°23'35.3" E	28.11.2024	72.3	39.5	16.7	21.5
Panchayat		18.12.2024	63.5	32.7	15.3	18.7
Bagula	23°36'27.3" N/	24.10.2024	65.7	33.5	17.5	20.2
School	86°21'59.7" E	29.11.2024	67.8	35.7	15.2	18.7
		19.12.2024	64.2	33.8	16.4	17.4
Shahar Juri	23°36'26.6" N/	24.10.2024	71.3	37.8	17.3	19.5
School	86°20'58.9" E	29.11.2024	69.6	41.3	18.3	21.3
		19.12.2024	63.5	34.6	15.6	17.8
	Minimum		62.5	41.3	18.3	17.4
	Maximum			32.7	15.2	22.7
	Average		66.68	35.98	16.35	20.02

Ambient Air Quality Analysis Report

Period- January'25 to March'25

Name of Industry : Mahal Saharjuri Sand Mining Project

No. of sampling points

: 4

Compling Location	Date of Sampling/ Weather Condition					
Sampling Location	January'25	February'25	March'25			
Mahal School Near Izri River	23.01.2025/ Clear	20.02.2025/ Clear	26.03.2025/ Clear			
Lagla Gram Panchayat	23.01.2025/ Clear	20.02.2025/ Clear	26.03.2025/ Clear			
Bagula School	24.01.2025/ Clear	21.02.2025/ Clear	27.03.2025/ Clear			
Shahar Juri School	24.01.2025/ Clear	21.02.2025/ Clear	27.03.2025/ Clear			

	Latitude/		PM ₁₀	PM _{2.5}	SO_2	NOx
Location	Longitude	Date	PM ₁₀ Level: 24 Hourly Limit-100µg/m ³	PM _{2.5} Level: 24 Hourly Limit- 60µg/m ³	SOx Level: 24 Hourly Limit- 80µg/m ³	NOx Level: 24 Hourly Limit- 80µg/m ³
Mahal	23°38'06.1'N /	23.01.2025	64.3	34.6	16.3	21.2
School	86°23'41.2" E	20.02.2025	65.4	36.5	15.4	19.8
Near Izri River		26.03.2025	62.7	33.5	16.2	19.6
Lagla	23°37'21.3" N/	23.01.2025	65.6	35.4	15.3	21.4
Gram	86°23'35.3" E	20.02.2025	68.3	38.5	17.5	19.7
Panchayat		26.03.2025	63.6	32.3	15.8	18.4
Bagula	23°36'27.3" N/	24.01.2025	64.3	33.4	16.9	17.8
School	86°21'59.7" E	21.02.2025	65.2	34.3	17.2	16.5
		27.03.2025	63.4	32.8	16.3	18.2
Shahar Juri	23°36'26.6" N/	24.01.2025	68.7	34.8	15.7	19.3
School	86°20'58.9" E	21.02.2025	69.8	36.2	17.4	17.6
		27.03.2025	64.6	33.8	14.2	16.2
	Minimum		62.7	32.3	14.2	16.2
	Maximum			38.5	17.5	21.4
	Average		65.49	34.68	16.18	18.81

Ground Water Quality Analysis

Ground water level fluctuation in and around Core & Buffer zone area of sand mining lease Post- Monsoon Season- November'24

	Date	Location	Time	Sample Parameter				
S.No				Depth in meter (m)	pН	Electrical Conductivity, µS/m		
1	20.11.2024	Premsinghdih	10:25AM	2.12	7.2	605		
2	20.11.2024	Lagla	11:40AM	2.09	7.3	485		
3	20.11.2024	Alakdih	11:00AM	1.45	7.2	518		
4	20.11.2024	Joradih	12:45 PM	2.12	7.1	560		
5	20.11.2024	SEB Quarters	11:50 AM	2.12	7.2	643		
6	20.11.2024	Kargali	02:45PM	2.18	7.3	475		
7	20.11.2024	Kumargora	01:20PM	1.35	7.2	575		
8	20.11.2024	Bhojudih	01:30PM	1.30	7.1	553		
9	20.11.2024	Mahal	12:18PM	1.42	7.2	512		
10	20.11.2024	Sudamdih	02:15 PM	1.58	7.1	587		

Winter Season- January'25

	Date	Location	Time	Sample Parameter				
S.No.				Depth in meter (m)	pН	Electrical Conductivity, μS/m		
1	30.01.2025	Premsinghdih	10:15AM	2.55	7.3	607		
2	30.01.2025	Lagla	11:42AM	2.45	7.2	525		
3	30.01.2025	Alakdih	10:58AM	2.21	7.1	535		
4	30.01.2025	Joradih	01:50PM	2.58	7.2	568		
5	30.01.2025	SEB Quarters	11:22AM	2.62	7.1	642		
6	30.01.2025	Kargali	01:55PM	2.59	7.2	510		
7	30.01.2025	Kumargora	11:40PM	1.85	7.2	609		
8	30.01.2025	Bhojudih	12:58PM	1.69	7.1	612		
9	30.01.2025	Mahal	12:18PM	1.92	7.2	532		
10	30.01.2025	Sudamdih	12:12PM	2.09	7.1	578		

Surface Water Quality Analysis

S.No.	Location	Sampling Date	Sampling Time	Temp	pН	TSS	BOD	Oil & Grease
	Location			< 40°C	5.5 - 9.0	100 mg/l	30 mg/l	10 mg/l
1.	River Gowai Up Sttream	11.03.2025	10:30AM	28.4	7.7	25	2.2	0.6
2.	River Damodar Down Stream	11.03.2025	10:50AM	29.2	7.6	24	2.1	0.7
3.	Lagla (Pond)	11.03.2025	01:35 PM	27.5	7.4	22	2.3	0.3
4.	Alakhdih(Pond)	11.03.2025	01:46 PM	28.3	7.5	23	2.7	0.4
5.	Joradih (Pond)	11.03.2025	11:55 AM	25.7	7.4	24	2.5	0.3
6.	SEB Quarters (Pond)	11.03.2025	11:20 AM	29.4	7.6	22	2.4	0.2
7.	Kargali (Pond)	11.03.2025	12:40AM	28.5	7.5	23	2.5	0.1
8.	Kumargora (Pond)	11.03.2025	01:00 PM	27.3	7.4	21	2.6	0.3
9.	Bhojudih (Pond)	11.03.2025	12:35 PM	28.2	7.5	23	2.3	0.2

Produced