

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/ 7/4/2024 November 27th, 2024

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 April-24 to September-24.

Dear Sir,

We are enclosing herewith compliance report for the period April-24 to September-24 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	111271779		
Compliance Number(For Tracking)	EC/M/COMPLIANCE/111271779/2024		
Reporting Year	2024		
Reporting Period	01 Dec(01 Apr - 30 Sep)		
Submission Date	30-11-2024		
RO/SRO Name	ARTATRANA MISHRA		
RO/SRO Email	jhk109@ifs.nic.in		
State	JHARKHAND		
RO/SRO Office Address	Integrated Regional Offices, Ranchi		
Note:- SMS and E-Mail has been sent to ARTATRANA M	IISHRA, JHARKHAND with Notification to Project Proponent.		

	01 Dec(01	ompliance Report 2024 Apr - 30 Sep) vledgement		
Proposal Name			Sand Lease Mining Project of cated in Village(s) Lagla and parkhand	
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	2024
Remarks (if any)	Half Yearly EC Compliance submission for April 2024 to September 2024.
Reporting Period	01 Dec(01 Apr - 30 Sep)

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	
1	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 st	n Control
The Con 9250363		by JSPCB vide letter no. JSPCB/RO/DHN/CTO- current CTO is valid till 31.03.2026. All the conditions as ed with.	Date: 11/11/2024
2	Statutory compliance	The project proponent shall comply with section 3 o Act.	f the Mines
	ubmission: Complied ag complied.		Date: 11/11/2024
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) S reporting of non-compliances / violations of environm the Board of Directors of the company and / or shareh stakeholders.	nter-alia bring into avironmental of Administrative ssues and for System of ental norms to
The Con addresse Environi noticed i of higher it is revio	es all the issues mentioned. The sta mental laws and regulations is reg is corrected at divisional level. If a r management. The environment r ewed on weekly basis. We have an	t Policy approved by the Managing Director and it atus of adherence to the policy and compliance to ularly discussed at higher levels. Any non-compliance any issue is beyond our control, it is brought to the notice nanagement cell directly reports to General Manager and n online system to monitor the statutory requirements and oard of Directors at companies level.	Date: 11/11/2024
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		of the width of the river intact for maintaining the ange in the river course takes place.	Date: 11/11/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Particulate level (PM2.5) shall be monitored regular placed in the public domain.	ly and the resu
	ubmission: Complied ing of PM2.5 has been carried out	in this period. The report is given as Annexure-I.	Date: 29/11/2024

The m the nat		he villages. Some of the native species are Pipal, Ber,	Date: 11/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall obtain necessary prior p competent authorities for drawl of requisite of water and groundwater), if any, required for the project.	
No wa	Submission: Complied ter is required for the operation of pro- company.	oject. Drinking water required by the workers is arranged	Date: 11/11/2024
8	MISCELLANEOUS	Appropriate mitigative measures shall be taken to p of the river in consultation with the State Pollution C shall be ensured that there is no leakage of oil and gre from the vehicles used for transportation.	ontrol Board. I
Adequ any oi	l and grease leakage. Higher capacity	chicles used for transportation of sand is ensured to avoid trucks have been deployed. Without valid fitness llowed to ply and it is regularly checked.	Date: 11/11/2024
9	AIR QUALITY MONITORING AND PRESERVATION	Vehicular emissions shall be kept under control and monitored. The mineral transportation shall be carried covered trucks only and the vehicles carrying the min overloaded.	d out through t
The ve ply. The		d maintained. Only vehicles having PUC certificates can via tarpaulin-covered trucks which are optimally loaded. premises at weighbridge gate.	Date: 11/11/2024
The ve ply. Th This is	chicles used are regularly checked and ransportation of sand is always done	via tarpaulin-covered trucks which are optimally loaded.	11/11/2024
The ve ply. Tr This is 10 PPs	ehicles used are regularly checked and ransportation of sand is always done s monitored whenever vehicles enter p AIR QUALITY MONITORING AND	via tarpaulin-covered trucks which are optimally loaded. premises at weighbridge gate. No drilling and blasting operation shall be carried of	11/11/2024
The ve ply. Tr This is 10 PPs	chicles used are regularly checked and ransportation of sand is always done versions monitored whenever vehicles enter performance of the senter of AIR QUALITY AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	via tarpaulin-covered trucks which are optimally loaded. premises at weighbridge gate. No drilling and blasting operation shall be carried of	Date: 11/11/2024 Date: 11/11/2024 lequate number d unloading e efficient dust
The verification of the ply. The This is 10 10 PPs Not ap 11 PPs Sand the does n surface the ply. The	AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project AIR QUALITY MONITORING AND PRESERVATION	 via tarpaulin-covered trucks which are optimally loaded. premises at weighbridge gate. No drilling and blasting operation shall be carried of the structure of the str	Date: 11/11/2024 Date: 11/11/2024 lequate number d unloading e efficient dust
The verification of the ply. The This is 10 10 PPs Not ap 11 PPs Sand the does n surface the ply. The	AIR QUALITY MONITORING AND PRESERVATION Submission: Complied oplicable as it is a sand mining project AIR QUALITY MONITORING AND PRESERVATION	 via tarpaulin-covered trucks which are optimally loaded. premises at weighbridge gate. No drilling and blasting operation shall be carried of the structure of the str	11/11/2024 out. Date: 11/11/2024 lequate number d unloading e efficient dust tained and Date: 11/11/2024 aged in the or the purpose

As per	our policy, PME (Periodical Medical	Examination) are conducted at regular intervals.	11/11/2024
13	Human Health Environment	Provision shall be made for the housing of constructive within the site with all necessary infrastructure and fact fuel for cooking, mobile toilets, mobile STP, safe drint medical health care, creche etc. The housing may be in temporary structures to be removed after the completion project.	ilities such as king water, a the form of
	Submission: Complied orkers are from the neighboring villag	ges and hence new housing facilities are not required.	Date: 11/11/2024
14	Statutory compliance	The critical parameters such as RSPM (Particulate m less than 10 micron i.e., PM10) and NOx in the ambien impact zone shall be monitored periodically. Further, of discharge water shall also be monitored [(TDS, DO, Pl Coliform and Total Suspended Solids (TSS)]. The mon shall be uploaded on the website of the company as we on a display board at the project site at a suitable locate main gate of the company in public domain. The Circu 20012/1/2006-IA.II(M) dated 27.05.2009 issued by M Environment and Forests, which is available on the we Ministry www.envfor.nic.in shall also be referred in the compliance.	nt air within th quality of H, Fecal nitored data ell as displayed ion near the dar No. J- inistry of ebsite of the
The m mining monito	g operation hence there is no discharg	en done in this period. There is no use of water for e. Details of air analysis are given in Annexure-I. The n company website along with half-yearly EC	Date: 29/11/2024
15	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall undertake adequate safes during extraction of river bed material and ensure that activity the hydrogeological regime of the surrounding be affected. Regular monitoring of ground water level shall be carried out around the mine lease area by estal network of existing well and installing new piezometer mining operation. The periodic monitoring (at least for year- pre-monsoon (April-May), monsoon (August), p (November) and winter (January); once in each season carried out in consultation with the State Ground Wate Board/Central Ground Water Authority and the data th may be sent regularly to the Ministry of Environment a its Regional Office Bhubaneswar, the Central Ground Authority and the Regional Director, Central Ground V at any stage, it is observed that the groundwater table i depleted due to the mining activity, necessary correctiv shall be carried out.	due to this area shall no and quality plishing a rs during the ar times in a ost-monsoon) shall be r tus collected and Forests ar Water Water Board. 1 s getting
The ex as well	l as no change in river course involve	care of the environment. There is no extraction of water d hence there will be no impact on the hydrogeological d water level and quality is given as Annexure-I.	Date: 29/11/2024
16	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures, such as regular water be carried out in critical areas prone to air pollution an levels of particulate matter such as loading and unload all transfer points. Extensive water sprinkling shall be haul roads. It should be ensured that the Ambient Air (d having high ing point and carried out of
		sion Ministry of Environment Forest and Climate Change	Page

Control Board in this regard.	parameters conform to the norms prescribed by the Central Pollution
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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.

General Conditions

Sr.No.	Condition Type	Condition Details	
1	The environmental statement for each financial year ending a 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 a mended subsequently, shall also be put on the website of the company along with the status of compliance of environmenta clearance conditions and also be sent to the respective Regiona Office of the Ministry on Environment and Forests, Bhubanesv e-mail.		the project Board as s, 1986, as site of the ironmental ve Regional
The environment Septemb company	per 2024 vide letter no. JMB/ENV/	year 2023-24 has been submitted to JSPCB on 27th ESSA/05/563/2024 and it is also uploaded on the nment Statement is also sent to MOEF by email at	Date: 11/11/2024
2	Statutory compliance	The State Pollution Control Board should display clearance letter at the Regional Office, District Indu the Collector's Office / Tehsildar's Office for 30 day	stry Centre and
The copy	ubmission: Complied y of clearance letter has been sent t ed to JSPCB.	to JSPCB office and its compliance report is also	Date: 11/11/2024
	Statutory compliance	No change in mining technology and scope of wor made without prior approval of the Ministry of Envi forests.	
3 PPs Su		made without prior approval of the Ministry of Envi	
3 PPs Su It is bein	Statutory compliance ubmission: Complied	made without prior approval of the Ministry of Envi	Date: 11/11/2024
3 PPs Su It is bein 4 PPs Su	Statutory compliance abmission: Complied ag complied with.	made without prior approval of the Ministry of Envi forests.	Date: 11/11/2024
3 PPs Su It is bein 4 PPs Su It is bein	Statutory compliance abmission: Complied ag complied with. Statutory compliance abmission: Complied	made without prior approval of the Ministry of Envi forests.	The formation of the local of t
 3 PPs Su It is bein 4 PPs Su 5 PPs Su 	Statutory compliance abmission: Complied ag complied with. Statutory compliance abmission: Complied ag complied with.	made without prior approval of the Ministry of Environment for sets. No change in the calendar plan including excavati sand from river bed and waste should be made. Conservation measures for protection of flora and & buffer zone should be drawn up in consultation we have a structure of the set of	The provide the second

	MONITORING AND PRESERVATION	established in the core zone as well as in the buffer zon (Particulate matter with size less than 10micron i.e., Pl monitoring. Location of stations should be decided bas meteorological data, topographical features and enviro ecologically sensitive targets and frequency of monitor undertaken in consultation with the State Pollution Con-	M10) and NOx sed on the nmentally and ring should be
The m	Submission: Complied onitoring stations have been established nbient air quality analysis reports are at	l and monitoring jobs are being performed regularly. tached as Annexure-I.	Date: 29/11/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality [(RSPM(Particulate matter less than 10micron i.e., PM10) and NOx] should be re- submitted to the Ministry including its regional office Bhubaneswar and to the State Pollution Control Board Pollution Control Board once in six months.	gularly at
	Submission: Complied sing submitted as Annexure-I in this cor	npliance report.	Date: 29/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	Fugitive dust emissions from all the sources should be regularly. Water spraying arrangement on haul roads, be unloading and at transfer points should be provided an maintained.	loading and
Sand, gather		moisture content, does not get air borne during ontrol measures while transporting of sand is in place optimal loading.	Date: 11/11/2024
9	Noise Monitoring & Prevention	Measure should be taken for control of noise levels be in work Environment. Workers engaged in operations should be provided with ear plugs / muffs.	
	Submission: Complied PPEs are provided to all the workers.		Date: 11/11/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (Workshop and Waste water f should be properly collected, treated so as to conform prescribed under GSR 422f(E) dated 19th May 1993 a December 1993 or as amended from time to time. Oil should be installed before discharge of Workshop efflu	to the standard nd 31st and Grease tra
	Submission: Complied ste water generation will take place.		Date: 11/11/2024
11	Human Health Environment	Personnel working in dusty area should wear protect devices and they should also be provided with adequat information on safety and health aspect. Occupational Surveillance programme of the worker should be unde periodically to observe any contraction due to exposur take corrective measures, if needed	e training and Health rtaken
	Submission: Complied be complied with.		Date: 11/11/2024
12	MISCELLANEOUS	A separate Environmental Management cell with sui personnel should be set-up under the control of a senio	
		n Ministry of Environment, Ecreat and Climate Change	Daga

		who will report directly to the Head of the Organizat	ion.
		who will report directly to the field of the organizat	
We have	ubmission: Complied e a separate Environmental Manag mental Cell is directly to General	gement Cell with qualified personnel. The reporting of Manager of the Division.	Date: 11/11/2024
13	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 purpose
Expendi Environ	ment Statement every year. The a	n measures is monitored separately. It is provided in the innual expenditure for the financial year 2023-24 is Rs. In transport road, plantation and environment monitoring.	Date: 11/11/2024
14	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 CT		en granted by JSPCB. The permission for lifting of sand by District Mining Officer, Bokaro.	Date: 11/11/2024
15	MISCELLANEOUS	The regional office of this ministry located at Bhub monitor compliance of the stipulated conditions. The authorities should extend full co-operation to the offi regional office by furnishing the requisite Data/ infor Monitoring reports.	project cer (s) of the
	ubmission: Complied e complied with.		Date: 11/11/2024
16	Statutory compliance	The project proponent shall submit six monthly rep of compliance of the stipulated environment clearance including results of monitored data (both in hard cop e-mail) to the Ministry of Environment and Forests, in Office Bhubaneswar, the respective zonal office of C Control Board and the State Pollution Control Board shall upload the status of compliance of the environm conditions, including results of monitored data on the shall update the same periodically. It shall simultanee the Regional Office of the Ministry of Environment a Bhubaneswar, the respective Zonal Officer of Centra Control Board and the State Pollution Control Board	e conditions ies as well as b ts Regional Central Pollutio . The proponen- nental clearance ir website and pusly be sent to and Forests, 1 Pollution
It is bein	ubmission: Complied ng complied with. We are submitt or April-2024 to September-2024	ing the six-monthly compliance reports on PARIVESH	Date: 13/11/2024
17	MISCELLANEOUS	A copy of the clearance letter shall be sent by the p concerned Panchayat, Zila Parisad / Municipal Corpo local Body and the Local NGO, if any, from whom s representations, if any, were received while processin The clearance letter shall also be put on the website of by the proponent.	pration, Urban uggestions / ng the proposal
PPs S	ubmission: Complied		Date:
	Address: IA F	Division. Ministry of Environment. Forest and Climate Change.	Page

It has been complied with.			11/11/2024			
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 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 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.			Date: 11/11/2024			
	Visit Re	emarks				
L. A CHANNIN DATA A D. AN		NT/A				
Last Site Visit Report Date: Additional Remarks:		N/A				

HALF YEARLY COMPLIANCE REPORT (PERIOD: APRIL'24 – SEPTEMBER'24)

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
Specifi	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 roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central	conform to the prescribed standards. Reports are enclosed as Annexure-I .
	Pollution Control Board in this regard.	
(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	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 .
	activity, necessary corrective measures	
	shall be carried out.	
(ix)	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.
(x)	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 ply. Transportation of sand

	through the covered trucks only and the	is always done via tarpaulin-covered trucks
	vehicles carrying the mineral shall not be overloaded.	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 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.

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.

	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.	
(ix)	Personnel working in dusty area should	It will be complied with.
()	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	
(x)	take corrective measures, if needed A separate Environmental Management	We have a separate Environmental
(A)	cell with suitable qualified personnel	Management Cell with qualified personnel.
	should be set-up under the control of a	The reporting of Environmental Cell is
	senior executive, who will report directly	directly to General Manager of the
	to the Head of the Organization.	Division.
(xi)	The funds earmarked for environmental	Expenditure on Environmental Protection
	protection measures should be kept in	measures is monitored separately. It is
	separate A/C and should not be diverted	provided in the Environment Statement
	for other purposes. Year wise expenditure should be reported to this	every year. The annual expenditure for the financial year 2023-2024 is Rs. 0.403 lakhs
	ministry and its regional office located at	for water spraying activities on transport
	Bhubaneswar.	road, plantation and environment
		monitoring.
(xii)	The project authorities should inform to	The CTE and CTO of the project have been
	the Regional Office located at	granted by JSPCB. The permission for
	Bhubaneswar regarding date of financial	lifting of sand from the river bed has also
	closures and final approval of the project	been granted by District Mining Officer,
	by the concerned authorities and the date	Bokaro.
	of start of land development work.	
(xiii)	The regional office of this ministry	It will be complied with.
	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	
1		
	Data/ information/ Monitoring reports.	
(xiv)		It is being complied with. We are
(xiv)	Data/ information/ Monitoring reports. The project proponent shall submit six monthly reports on the status of	It is being complied with. We are submitting the six-monthly compliance

	anvinonment electron conditions	reports on DADIVESU routel for Annial
	environment clearance conditions	reports on PARIVESH portal for Apr'24-
	including results of monitored data (both	Sept'24.
	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.	
(xv)	A copy of the clearance letter shall be	It has been complied with.
, í	sent by the proponent to concerned	L L
	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.	
(xvi)	The State Pollution Control Board should	The copy of clearance letter has been sent to
	display a copy of the clearance letter at	JSPCB office and its compliance report is
	the Regional Office, District Industry	also submitted to JSPCB.
	Centre and the Collector's Office /	
	Tehsildar's Office for 30 days.	
(xvii)	The environmental statement for each	The environmental statement for financial
	financial year ending 31st March in	year 2023-24 has been submitted to JSPCB
	Form-V as is mandated to be submitted	on 27th September 2024 vide letter no.
	by the project proponent to the concerned	JMB/ENV/ESSA/05/563/2024 and it is also
	State Pollution Control Board as	uploaded on the company website. The soft
	prescribed under the Environment	copy of Environment Statement is also sent
	(Protection) Rules, 1986, as amended	to MOEF by email at ro.ranchi-
	subsequently, shall also be put on the	mef@gov.in.
		mer @ g0 v.m.
	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.	

(xviii)	The project authorities should advertise	It has been complied with.
	at least in two local newspapers of the	Ĩ
	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 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.	

	ADITI R&D S Testing Labor NABL ACCRED (A Constituent Board of Qualit EC 17025:2017, ISO 9001:2015,ISO (ratory ITED ty Council of In	dia)	Plot No I-B-17 (P) Sindri, Industrial Area, 20 - Domgarh, Dist - Dhai harkhand - 828107 Email ID: sindriaditi@gmai Vebsite: aditimdservices.c Phone: 0326-2952377 (O) ax: 0326-2952377 Mobile: 09471358492, 094
Ref. No.:	- ARUS/24-25/ AAQ/2		-	Date: 10.05.2024
	TEST REPORT OF	AMBIENT AI	RQUALITY	22
• Na	TATA	STEEL JHAR		
	and the second		JHARKHAND)	
• W		2573/932 Dt.	S	
	te of Sample Collection : 03.05.2			
		024 To 09.05.2		
	st Procedure : As per l		024	
19 1 1		RESULTS		
_				
-	LOCATION - LA	GLA GRAM PA	ANCHYAT	
	Avg. Ambient Temperature	38°C	Avg. Humidity	/ 24%
SI No.	Particulars	Value	CPCB STA	ANDARD
1.	Particulate Matter (PM ₁₀), µg/m ³	61.23	100 µ	g/m ¹
2.	Particulate Matter (PM _{2.5}), µg/m ³	35.27	60 µg	y/m ^a
3.	SO ₂ , µg/m ³	16.46	չկ 08	µ/m ³
4.	NO ₂ , µg/m ³	28.75	80 µg	/m ³
·**	Ozone, µg/m ³	16.15	180 µ	g/m ³
5.	NH ₃ , µg/m ³	18.23	400 µ	g/m ³
5,1975	unst billing			
5.	CO, mg/m ³	0.42	4 mg	ím ³
5. 6.	and a second	0.42 BDL	4 mg 1 µg	ter te
5. 6. 7.	CO, mg/m ³	10000		m ³
5. 6. 7. 8.	CO, mg/m ³ Pb, µg/m ³	BDL	1 µg	m ³
5. 6. 7. 8. 9.	CO, mg/m ³ Pb, µg/m ³ As, ng/m ³	BDL BDL	1 µg 6 ng/	lm ³
5. 6. 7. 8. 9. 10. 11. 12.	CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³ Benzoapyrene ng/m ³	BDL BDL BDL	1 µg 6 ng/ 20 ng	m ³ m ³ /m ³
5. 6. 7. 8. 9. 10. 11. 12. NOTE: B	CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³	BDL BDL BDL BDL	1 µg 6 ng/ 20 ng 5 µg/	m ³ m ³ /m ³

Statements :

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2. The test results reported in this report are valid at the time of and under the stated condition of measurment.

IS	:0/IE	ADITI R&D SE Testing Labora NABL ACCREDIT (A Constituent Board of Quality C 17025:2017, ISO 9001:2015,ISO (0	tory TED Council of Ind	dia)	Jharkhand Email ID: si Website: ac Phone: 032 Fax: 0326-2	istrial Áréa, parh, Dist Dhanbad - 828107 indriaditi@gmail.com ditimdservices.com 26-2952377 (O),
Ref. N	o.: -	ARDS/24-25/AAQ/1		Date	e: 10.05.20	024
		TEST REPORT OF A	MBIENT AI	R QUALITY		
•		TATA S (SAND) DIST. –		ERY A, BHOJUDIH) (JHARKHAND		
	1223		24 To 04.05.2			
e :	Dur	e el editiple editerren i esterine		737722		
•		e er reening	24 To 09.05.2	024		
•		t Procedure : As per IS <u>TEST</u>				
		t Procedure : As per IS <u>TEST</u> LOCATION - IC	-5182 RESULTS		lity	24%
SIN	Tes	t Procedure : As per IS <u>TEST</u>	-5182 RESULTS CHAR HIGH S	CHOOL Avg. Humic	lity	5000
SI N	Tes	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars	-5182 RESULTS CHAR HIGH S 38 ⁰ C	CHOOL Avg. Humic CPCB S	and the second second	5000
1	Tes	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature	-5182 RESULTS CHAR HIGH S 38 ⁰ C Value	CHOOL Avg. Humic CPCB S 100	TANDARI	5000
1	Tes No.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³	-5182 RESULTS CHAR HIGH S 38 ⁰ C Value 69.44	CHOOL Avg. Humic CPCB S 100 60	TANDARI Dipg/m ³	5000
1 2 3	Tes No. 1, 2,	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³	-5182 RESULTS CHAR HIGH S 38 ⁰ C Value 69.44 40.25	CHOOL Avg. Humic CPCB S 100 60 80	TANDARI D µg/m ³ µg/m ³	5000
1 2 3 4	Tes No. 1, 2. 3.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³	-5182 <u>RESULTS</u> CHAR HIGH S 38 ⁰ C Value 69.44 40.25 19.32	CHOOL Avg. Humic CPCB S 100 60 80 80	TANDARI D µg/m ³ µg/m ³ µg/m ³	5000
1 2 3 4 5	Tes No. 1. 2. 3. 4.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³	-5182 <u>RESULTS</u> CHAR HIGH S 38°C Value 69.44 40.25 19.32 29.88	SCHOOL Avg. Humic CPCB S 100 60 80 80 180	TANDARI D µg/m ³ µg/m ³ µg/m ³ µg/m ³	5000
1 2 3 4 5 6	Tes No. 1. 2. 3. 4. 5.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³	-5182 <u>RESULTS</u> CHAR HIGH S 38 ⁰ C Value 69.44 40.25 19.32 29.88 15.65	CHOOL Avg. Humic CPCB S 100 60 80 80 80 180 400	TANDARI) μg/m ³ μg/m ³ μg/m ³ μg/m ³) μg/m ³	5000
1 2 3 4 5 6 7	Tes No. 1. 2. 3. 4. 5. 5.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ NO ₂ , µg/m ³ NH ₃ , µg/m ³	-5182 RESULTS CHAR HIGH S 38°C Value 69.44 40.25 19.32 29.88 15.65 18.36	CHOOL Avg. Humic CPCB S 100 60 80 80 80 80 80 400 400	TANDARI D µg/m ³ µg/m ³ µg/m ³ µg/m ³ D µg/m ³ D µg/m ³	5000
1 2 3 4 5 6 7 8	Tes No. 1. 2. 3. 4. 5. 5. 5. 5.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³	-5182 RESULTS CHAR HIGH S 38°C Value 69.44 40.25 19.32 29.88 15.65 18.36 0.46	CHOOL Avg. Humic CPCB S 100 60 80 80 180 400 40 40 40 40 40 40	танрак) µg/m ³ µg/m ³ µg/m ³ µg/m ³) µg/m ³) µg/m ³ л µg/m ³	5000
1 2 3 4 5 6 7 7 8 9	Tes No. 1. 2. 3. 4. 5. 5. 7. 8.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³	-5182 RESULTS CHAR HIGH S 38°C Value 69.44 40.25 19.32 29.88 15.65 18.36 0.46 BDL	CHOOL Avg. Humic CPCB S 100 60 80 80 180 400 40 40 40 40 40 40 40 40 40 40 40 4	танрая) µg/m ³ µg/m ³ µg/m ³ µg/m ³) µg/m ³) µg/m ³ µg/m ³ µg/m ³	5000
1 2 3 4 5 6 7 8 9 9	Tes No. 1. 2. 3. 4. 5. 5. 5. 5. 8. 9.	t Procedure : As per IS <u>TEST</u> LOCATION – IC Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³	-5182 <u>RESULTS</u> CHAR HIGH S 38 ⁰ C Value 69.44 40.25 19.32 29.88 15.65 18.36 0.46 BDL BDL	CHOOL Avg. Humic CPCB S 100 60 80 80 80 180 400 41 4 1 6 20	TANDARI D µg/m ³ µg/m ³ µg/m ³ µg/m ³ D µg/m ³ D µg/m ³ µg/m ³ µg/m ³	5000

Sr. Chemist Aditi R&D Services



Technical Mahager Aditi R&D Services, Sindri

Statements :

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

- 2. The test results reported in this report are valid at the time of and under the stated condition of measurment.
- 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.

A R D S	ADITI R Tes (A Constituent I D/IEC 17025:2017, ISO 9	E 5 lia)	Plot No I-B-17 (P) Sindri, Industrial Area, P.O Domgarh, Dist Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608			
Ref. No	.: - ARDS/24-25/ AAQ/3	1		Date	: 10.05.2024	
	TESTR	EPORT OF A	MBIENT AIR	RQUALITY		÷
• 1	Work Order Ref. NO. Date of Sample Collect Date of Testing Test Procedure	(SAND I DIST I : 4700092 ion : 03.05.20 : 06.05.20 : As per IS <u>TEST I</u>	DHANBAD (J 573/932 Dt. 2 24 To 04.05.20 24 To 09.05.20 -5182 RESULTS	A, BHOJUDIH) HARKHAND) 20.07.2021 024 024		T
		-1000 T/	AHARJURI SC			_
	Avg. Ambient T	emperature	38°C	Avg. Humidi	Contraction of the Charles	
SINC		Feelman A	Value		ANDARD	
1.			63.97		µg/m³	
					0 µg/m ³	
2.	EQ unimi			00.	infand •	-
3.	SO ₂ , µg/m ³		16.95		ig/m ⁰ •	-
3. 4.	NO ₂ , µg/m ³		25.52	80 μ	ıg/m ³	
3.	NO ₂ , µg/m ³		1.5.5.5.C.	80 µ 180	ig/iii-	

Pb, µg/m³ BDL 8. 9. As, ng/m³ BDL 10. Ni, ng/m³ BDL 11. BDL Benzene, µg/m³ 12. Benzoapyrene ng/m³ BDL NOTE: BDL - Below Detection Limit

Sr. Chemist Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

1 µg/m³

6 ng/m³

20 ng/m³

5 µg/m³

1 ng/m¹

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2. The test results reported in this report are valid at the time of and under the stated condition of measurment.

A R D S	ADITI R8 Testin NABL (A Constituent Boar ISO/IEC 17025:2017, ISO 9001:	Plot No I-B-17 (P) Sindri, Industrial Area, P.O Domgarh, Dist Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608	
Ref	. No.: - ARDS/24-25/ AAQ/4	Dat	e: 10.05.2024
	TEST REP	ORT 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 .:	: 4700092573/932 Dt. 20.07.2021	
•	Date of Sample Collection	: 03.05.2024 To 04.05.2024	*2
	Date of Testing	: 06.05.2024 To 09.05.2024	
٠	Test Procedure	: As per IS-5182	
		TEST RESULTS	
	LOCATION	- RAILWAY COLONY , BHOJUDIH	

	Avg. Ambient Temperature	38°C	Avg. Humidity	24%	
SI No.	Particulars	Value	CPCB STANDA	RD	
1.	Particulate Matter (PM ₁₀), µg/m ³	81.54	100 µg/m ³		
2.	Particulate Matter (PM2.5), µg/m3	47.96	60 µg/m ³		
3.	SO ₂ , µg/m ³	22.82	80 µg/m ³		
4.	NO ₂ , µg/m ³	30.12	80 µg/m ³		
5.	Ozone, µg/m ³	15.84	180 µg/m ³		
6.	NH ₃ , µg/m ³	19.63	400 µg/m ³		
7.	CO, mg/m ³	0.52	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 ¹		
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



Technical Manager Aditi R&D Services, Sindri

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O/IEC 17025	onstitu 2017, IS	NAB ent Boa	ng Lal L ACCF ard of Q 1:2015,I	nality	Coun HSAS	cil of) 4500	1:2018 Certif	P.O Don Jharkhan Email ID: Website: Phone: 0 Fax: 0326 Mobile: 0	Justrial Aréa, ngarh, Dist Dhanb d - 828107 sindriaditi@gmail.c aditimdservices.co 326-2952377 (O), 5-2952377 9471358492, 0943
Pof N	o & Date				_	NAME		SS OF THE CL	ENT
			5.2024					the second s	and the second se
Date of I	Monitori	ng			(and the			DIH)
				_	1	DIST.		and the second se	NAME AND ADDRESS OF TAXABLE PARTY.
03.05.2024	To 04.0	5.2024		Ar	nbient		Average Humidity (%)	Weather Condition	Status of the plant
			1		38		24	Clear	Not in operational
			MOM	NITOF	RING	RESU	ILTS		
No Monitoring (6 AM		6 AM to	M to 10 PM)		Night Time (10 PM to 6 AM) Avg. dB(A)		standard) fo as per CPCB (Regulation (Amendmer notified vid Dt. 23 Limit in	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 Day Time Night Time	
CATION	MAX	MIN			MAX	MIN		Residential	Residential • Area
	-		0	2				Afea	• Area
	52	44	49.6	3	47	32	44.12	65.00	55.00
	56	40	53.1	10	44	37	41.78	_	
olony,	59	46	56.2	20	45	32	42.20	_	1.10
Sr. Chemi	sł		State and State		STERVICE.	· Jo u			
	TEST Ref. No /24-25/ NOIS Date of I 03.05.2024 Work Order Dt. 20 Place of Monitoring Place of Monitoring CATION LEASE AREA agla Gram anchayat school cchar High cchool cchar High cchool cchar High cchool	TEST REPO Ref. No. & Date Ref. No. & Date /24-25/ NOISE/1 Dat Date of Monitoria 03.05.2024 To 04.03 Work Order 4700092 Dt. 20.07.2021 Place of Monitoring MAX DCATION MAX LEASE AREA 55 agla Gram Panchayat 55 School 56 School 59	TEST REPORT OF Ref. No. & Date Ref. No. & Date /24-25/ NOISE/1 Date:06.05 Date of Monitoring 03.05.2024 To 03.05.2024 To 040092573/932 Dt 20.07.2021 Place of Monitoring Day T (6 AM to Avg. d) CATION MAX LEASE AREA MIN LEASE AREA 55 agla Gram 55 scharjuri 52 chool 56 scharjuri 56 school 59 Sr. Chemist Sr. Chemist	TEST REPORT OF NOIS Ref. No. & Date /24-25/ NOISE/1 Date:06.05.2024 Date of Monitoring 03.05.2024 To 04.05.2024 Work Order 4700092573/932 Dt. 20.07.2021 MOR Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) DCATION MAX MIN AvG. d Lease agla Gram canchayat 55 47 52.6 adharjuri cchool 56 40 53.1 chool 56 40 53.1 chool 59 46 56.2 Sr. Chemist 59 46 56.2	TEST REPORT OF NOISE (A Ref. No. & Date /24-25/ NOISE/1 Date:06.05.2024 Date of Monitoring 03.05.2024 To 04.05.2024 Au 03.05.2024 To 04.05.2024 Au Work Order 4700092573/932 Dt. 20.07.2021 MONITOF Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) MAX MIN AvG. dB(A) DCATION MAX MIN AvG. dB(A) LEASE AREA 55 47 52.63 adatarjuri chool 56 40 53.10 Char High chool 59 46 56.20 Sr. Chemist 59 46 56.20	TEST REPORT OF NOISE (AMBIE Ref. No. & Date Z4-25/ NOISE/1 Date:06.05.2024 Date of Monitoring () Date of Monitoring () () 03.05.2024 To 04.05.2024 Avg. Ambient Temperatu (°C) Work Order 4700092573/932 Dt 20.07.2021 38 MONITORING Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) MAX DCATION MAX MIN Avg. dB(A) MAX CATION MAX MIN Avg. dB(A) MAX Casharjuri S5 47 52.63 48 agla Gram S55 47 52.63 48 asharjuri S2 44 49.63 47 School 56 40 53.10 44 School 59 46 56.20 45 School 59 46 56.20 45	TEST REPORT OF NOISE (AMBIENT) Ref. No. & Date NAME /24-25/ NOISE/1 Date:06.05.2024 TAT/ Date of Monitoring (SANI 03.05.2024 To 04.05.2024 Avg. 03.05.2024 To 04.05.2024 Avg. 03.05.2024 To 04.05.2024 Avg. Work Order 4700092573/932 38 Dt 20.07.2021 MONITORING RESU Place of Monitoring Day Time Nigh (6 AM to 10 PM) (10 PM) Avg. dB(A) MAX MIN Avg. dB(A) MAX MIN CATION MAX MIN Avg. dB(A) CATION MAX MIN Avg. dB(A) CATION MAX MIN Avg. dB(A) Cast AREA 55 47 52.63 48 38 Schar High 56 40 53.10 44 37 Cation 59 46 56.20 45 32 School 59 46 56.20 45 32 School 59 46 56.20 45 32 </td <td>TEST REPORT OF NOISE (AMBIENT) LEVEL MO Ref. No. & Date NAME AND ADDRES /24-25/ NOISE/1 Date:06.05.2024 TATA STEEL JH Date of Monitoring TATA STEEL (SAND LEASE AF 03.05.2024 To 04.05.2024 Avg. Average Monitoring Average 03.05.2024 To 04.05.2024 Avg. Average Monitoring Average Monitoring Average Monitoring Average Monitoring Bay Time NIGH Time Night Time (6 AM to 10 PM) (10 PM to 6 AM) Avg. dB(A) Avg. dB(A) Avg. dB(A) Average Baay Time Night Time (10 PM to 6 AM) Average Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) At1.12 Cohool<td>ONEC 17025:2017, ISO 9001:2015,ISO (OHSAS) 45001:2018 Certified</td></td>	TEST REPORT OF NOISE (AMBIENT) LEVEL MO Ref. No. & Date NAME AND ADDRES /24-25/ NOISE/1 Date:06.05.2024 TATA STEEL JH Date of Monitoring TATA STEEL (SAND LEASE AF 03.05.2024 To 04.05.2024 Avg. Average Monitoring Average 03.05.2024 To 04.05.2024 Avg. Average Monitoring Average Monitoring Average Monitoring Average Monitoring Bay Time NIGH Time Night Time (6 AM to 10 PM) (10 PM to 6 AM) Avg. dB(A) Avg. dB(A) Avg. dB(A) Average Baay Time Night Time (10 PM to 6 AM) Average Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) Avg. dB(A) At1.12 Cohool <td>ONEC 17025:2017, ISO 9001:2015,ISO (OHSAS) 45001:2018 Certified</td>	ONEC 17025:2017, ISO 9001:2015,ISO (OHSAS) 45001:2018 Certified

S S S S S S S S S S S S S S S S S S S			ing Laborato	Dry D ouncil of India)	Sindri, P.O I Jharkh Email Websi Phone Fax: 0	o I-B-17 (P) Industrial Area, Xomgarh, Dist Dhant and - 828107 ID: sindriaditi@gmail. e: aditimdservices.co : 0326-2952377 (O), 326-2952377 : 09471358492, 0943
Ref. N	lo.: - /	ARDS/24-25/MINER./	1			Date: 09.0	5.2024
		TEST REPOR	T OF MINERA	LOGICAL	OMPOS	SITION	
		<u>c</u>	F PARTICUL		R		
			DI31 DI	IANBAD (JH	ANNIA		
	Date	k Order Ref. NO. e of Sample Collectic e of Testing	on : 04.05.2024	To 08.05.202			
•	Date Date	of Sample Collection	on : 04.05.2024 : 06.05.2024	To 08.05.202	4	Compositi	on (%)
• • SI 1	Date	of Sample Collection	on : 04.05.2024 : 06.05.2024	To 08.05.202	4	Compositi Al ₂ O ₃	on (%) CaO
	Date Date	of Sample Collection	on : 04.05.2024 : 06.05.2024 <u>TEST RE</u>	To 08.05.202 ESULTS Miner	4 ralogical (
	Date Date	of Sample Collection of Testing Particulars	on : 04.05.2024 : 06.05.2024 <u>TEST RE</u>	To 08.05.202 <u>ESULTS</u> <u>Miner</u> SiO ₂	4 ralogical (FeO	Al ₂ O ₁	CaO

Statements :

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H D S	5	Testing NABL lituent Boar	g Labor ACCRED d of Qualit	atory ITED y Council o		Sind P.O Jhan Ema Web Phor Fax:	No I-B-17 (P) n. Industrial Area, - Domgarh, Dist Dhanbad khand - 628107 il ID: sindriaditi@gmail.com site: aditimdservices.com ne: 0326-2952377 (O), 0326-2952377 iie: 09471358492, 094315126
F	Ref. No.: - ARDS/24-25	/SW/1				Da	ate: 10.05.2024
		TEST RE	PORT O	F SURFA	CE WA	TER	
	 Name of the ind Work Order Re 		TATA S	STEEL CO LEASE A DHANBA	ARIA DIVI DLLIERY REA, BHO D (JHARK Dt. 20.07	JUDIH) HAND)	
	 Sample Code Date of Sample Date of Testing Test 		2. 3. 4. : 04 : 06	Gowai Riv Izri River Izri River .05.2024 i.05.2024	ver (Up Str ver (Dn. St (Up Strear (Dn. Strea To 09.05.2 rbidity, D0	ream) n) m)	F, SO4
		1.10	TEST	RESULT	a		
SI.	PARAMETERS		VALUE			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.	рН	8.2	8.2	7.8	7.9	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	526	540	645	668	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1.7	2.0	2.4	3.0		IS-3025 (P-10):1984
4.	Dissolved Oxygen	5.3	4.7	5.8	5.4	4.0 (Min)	IS-3025 (P-38):1989
5.	,mg/l Bio chemical Oxygen Demand, mg/l	1.7	2.1	1.9	2.1	3.0	IS-3025 (P-44):1994
6.	Chloride as CI, mg/l	65.9	69.8	168.7	176.5	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.60	0.65	0.56	0.64	1.5	IS-3025 (P-60):2008
8,	Sulphate as SO ₄ , mg/l	49.3	54	38.1	39.8	400	IS-3025 (P-24):1986
	Sr. Chemist Aditi R&D Service	s	and the second second	A COMMAND	A		Manager Wices, Sindri
	8			- MAN			



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

Plat No. - I-B-17 (P) Sindri, Industrial Area, P.O.- Domgarh, Dist.- Dhanbed Jharkhand - 828107 Email ID: sindriadit@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O) Mobile: 09471358492, 09431512608

Date: 23.08.2024

TEST REPORT OF AMBIENT AIR QUALITY

•	Name of the industry	: TATA STEEL JHARIA DIVISION
	52	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 : 16/08/2024 To 17/08/2024 : 19/08/2024 To 22/08/2024
- Date of Testing
- **Test Procedure**

TEST RESULTS

: As per IS-5182

	LOCATION - ICCHAR HIGH SCHOOL						
	Avg. Ambient Temperature	30°C	Avg. Humidity	82%			
SI No.	Particulars	Value	CPCB STAND	ARD			
1.	Particulate Matter (PM10), µg/m3	60.47	100 µg/m ³	1			
2.	Particulate Matter (PM2.5), µg/m3	32.34	60 µg/m ³				
3.	SO ₂ , µg/m ³	16.36	80 µg/m³				
4.	NO ₂ , µg/m ³	27.62	80 µg/m ³				
5.	Ozone, µg/m³	15.68	180 µg/m ³				
6.	NH3, µg/m3	14.56	400 µg/m ³				
7.	CO, mg/m ³	0.38	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/m³				
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

Statements :

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Date: 23.08.2024

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	: 16/08/2024 To 17/08/2024
٠	Date of Testing	: 19/08/2024 To 22/08/2024
•	Test Procedure	: As per IS-5182
		TEST RESULTS

LOCATION - LAGLA GRAM PANCHYAT						
	Avg. Ambient Temperature	30°C	Avg. Humidity	82%		
SI No.	Particulars	Value	CPCB STAND	ARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	59.60	100 µg/m ¹	e.		
2.	Particulate Matter (PM2.5), µg/m3	33.45	60 µg/m ³			
3.	SO ₂ , µg/m ³	15.84	80 µg/m ³			
4.	NO ₂ , µg/m ³	27.26	80 µg/m ³			
5.	Ozone, µg/m³	14.44	180 µg/m ³			
6.	NH ₃ , µg/m ³	15.26	400 µg/m ³			
7.	CO, mg/m ³	0.32	4 mg/m ³			
8.	Pb, µg/m ³	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/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



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Technical Manager Aditi R&D Services, Sindri

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

Date: 23.08.2024

TEST REPORT OF AMBIENT AIR QUALITY

•	Name of the industry	TATA STEEL JHARIA DIVISIO	NC
		TATA STEEL COLLIERY	
		(SAND LEASE AREA, BHOJ	JDIH)
		DIST DHANBAD (JHARKH	AND)
•	Work Order Ref. NO.	4700126557/932 Date:- 29/05/2	024
•	Date of Sample Collection	16/08/2024 To 17/08/2024	
•	Date of Testing	19/08/2024 To 22/08/2024	

- Test Procedure
- : As per IS-5182

TEST RESULTS

LOCATION - SAHARJURI SCHOOL					
	Avg. Ambient Temperature	30°C	Avg. Humidity	82%	
SI No.	Particulars	Value	CPCB STAND	ARD	
1.	Particulate Matter (PM10), µg/m3	60.82	100 µg/m ³	1	
2.	Particulate Matter (PM2.5), µg/m3	34.16	60 µg/m ³		
3.	SO ₂ , µg/m ³	15.08	80 µg/m ³		
4.	NO ₂ , µg/m ³	26.32	80 µg/m ³		
5.	Ozone, µg/m³	14.38	180 µg/m ³		
6.	NH ₃ , µg/m ³	12.98	400 µg/m ³		
7.	CO, mg/m ³	0.28	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/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m³		
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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Plot No. - I-8-17 (P) Sindri, Industrial Area, P.O.- Domgarh, Dist.- Dhanbed Jharkhand - 828107 Email ID: sindriad@@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O) Mobile: 05471358492, 09431512508

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

Date: 23.08.2024

TEST REPORT OF AMBIENT AIR QUALITY

•	Name of the industry	3	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	:	16/08/2024 To 17/08/2024
•	Date of Testing	:	19/08/2024 To 22/08/2024
٠	Test Procedure	:	As per IS-5182

TEST RESULTS

LOCATION - RAILWAY COLONY, BHOJUDIH								
2	Avg. Ambient Temperature	30°C	Avg. Humidity	82%				
SI No.	Particulars	Value	CPCB STAND	ARD				
1.	Particulate Matter (PM10), µg/m3	76.84	100 µg/m ³	1				
2.	Particulate Matter (PM2.5), µg/m3	43.76	60 µg/m ³					
3.	SO ₂ , µg/m ³	18.48	80 µg/m ³					
4.	NO ₂ , µg/m ³	28.26	80 µg/m ³					
5.	Ozone, µg/m³	15.12	180 µg/m ³					
6.	NH ₃ , µg/m ³	16.65	400 µg/m ³					
7.	CO, mg/m ³	0.48	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/m³					
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³					

NOTE: BDL - Below Detection Limit

0 Sr. Chemist

Aditi R&D Services



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Technical Manager Aditi R&D Services, Sindri

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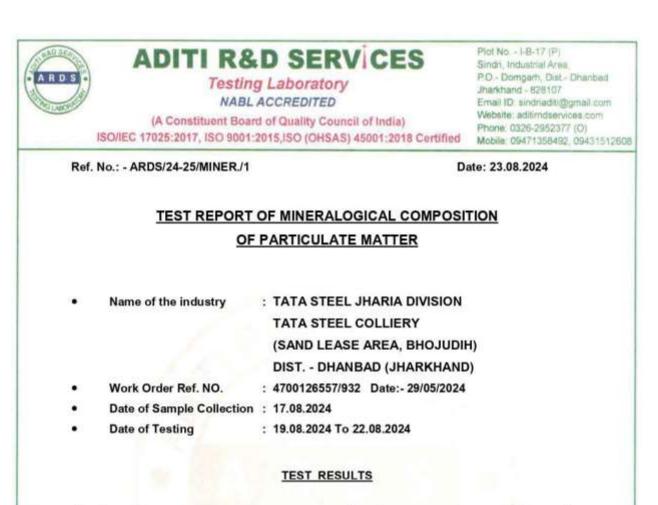
Plot No. - I-8-17 (P) Sindri, Industrial Area P.O.- Domgarh, Dist.- Dhanbad Jharkhand - 828107 Email ID: sindriadit@gmail.com Website: aditindservices.com Phone: 0326-2952377 (O) Mobile: 09471358492, 09431512508

TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

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operational
evel (Ambient or Industrial Area B Noise Pollution on and Control) ent) Rules , 2000 de S.O. 1046(E) 2.11.2020 n dB(A) Leq Night Time
Residentia
Area
55.00

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.



SI No.	Particulars	Mineralogical Composition (%)					
	-	SiO2	FeO	Al ₂ O ₃	CaO		
1.	Icchar High School	1.81	0.03	1.09	2.8		
2.	Railway Colony, Bhojudih	1.93	0.11	1.20	2.52		

Sr. Chemist

Aditi R&D Services



Technical Manager Aditi R&D Services, Sindri

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R D S	ADIT	Testing	g Labora	atory TED		Sindh P.OI Jharki Email Webs	o - I-B-17 (P) Industrial Area, Domgarh, Dist Dhanbad tand - 826107 ID: sindriad@gmail.com te: aditirndservices.com
	ISO/IEC 17025:2017				the second se	1.1.20	x 0326-2952377 (O) x 09471358492, 09431512
F	Ref. No.: - ARDS/24-25	/SW/1				Da	ate: 24.08.2024
		TEST RE	PORT O	F SURFA	ACE WA	TER	
	 Name of the ind Work Order Re 		TATA : (SAND DIST	STEEL CO LEASE A DHANBA	ARIA DIVI DLLIERY REA, BHO D (JHARK Date:- 29	JUDIH) HAND)	
	 Sample Code Date of Sample 	Collection	2. 3. 4.	Gowai Riv Izri River	ver (Up Str ver (Dn. St (Up Strear (Dn. Strea	ream) n)	
	 Date of Sample Date of Testing 		10 103		To 23.08.	2024	
	• Test		: pł	H, TDS, Tu	rhidity D	BOD CI	E \$0.
			101	.,,	indiancy, De	J, DOD, C I,	1, 304
			1000000		n an an an an an an an	, вов, с і ,	r, 304
SI.	PARAMETERS		TEST	<u>RESULT</u>	n an an an an an an an	Limit as	Test
1.002.00	PARAMETERS OF TEST	Gowai River (Up Stream)	TEST VA Gowai River (Dn.	RESULT	n an an an an an an an		
SI. No.		River (Up	TEST VA Gowai River	RESULT	Izri River (Dn.	Limit as per IS 2296	Test Method
No. 1. 2.	PH Total Dissolved Solids, mg/l	River (Up Stream) 7.8 141	TEST VA Gowai River (Dn. Stream) 7.9 165	RESULT LUE Izri River (Up Stream) 8.2 160	Izri River (Dn. Stream) 8.0 155	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984
No. 1. 2. 3.	pH Total Dissolved Solids, mg/l Turbidity, NTU	River (Up Stream) 7.8 141 4	TEST VA Gowai River (Dn. Stream) 7.9 165 4	RESULT LUE Izri River (Up Stream) 8.2 160 3	Izri River (Dn. Stream) 8.0 155 3	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984
No. 1. 2.	PH Total Dissolved Solids, mg/l	River (Up Stream) 7.8 141	TEST VA Gowai River (Dn. Stream) 7.9 165	RESULT LUE Izri River (Up Stream) 8.2 160	Izri River (Dn. Stream) 8.0 155	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984
No. 1. 2. 3.	PH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen	River (Up Stream) 7.8 141 4	TEST VA Gowai River (Dn. Stream) 7.9 165 4	RESULT LUE Izri River (Up Stream) 8.2 160 3	Izri River (Dn. Stream) 8.0 155 3	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984 IS-3025 (P-38):1989
No. 1. 2. 3. 4.	pH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l	River (Up Stream) 7.8 141 4 5.2	TEST VA Gowai River (Dn. Stream) 7.9 165 4 5.2	RESULT LUE Izri River (Up Stream) 8.2 160 3 5.4	Izri River (Dn. Stream) 8.0 155 3 5.4	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.) - 4.0 (Min)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984
No. 1. 2. 3. 4. 5.	PH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l	River (Up Stream) 7.8 141 4 5.2 2.8	TEST VA Gowai River (Dn. Stream) 7.9 165 4 5.2 2.7	RESULTLUEIzri River (Up Stream)8.216035.42.1	Izri River (Dn. Stream) 8.0 155 3 5.4 2.0	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.) - 4.0 (Min) 3.0	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984 IS-3025 (P-38):1989 IS-3025 (P-44):1994
No. 1. 2. 3. 4. 5. 6.	DF TEST pH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l Chloride as CI, mg/l	River (Up Stream) 7.8 141 4 5.2 2.8 12	TEST VA Gowai River (Dn. Stream) 7.9 165 4 5.2 2.7 2.7 14.0	RESULT LUE Izri River (Up Stream) 8.2 160 3 5.4 2.1 10.0	Izri River (Dn. Stream) 8.0 155 3 5.4 2.0 14.0	Limit as per IS 2296 Class - C 6.5 - 8.5 1500 (Max.) - 4.0 (Min) 3.0 600 (Max.)	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984 IS-3025 (P-38):1989 IS-3025 (P-44):1994 IS-3025 (P-32):1988

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.

Ambient Air Quality Analysis Report

Period- April'24 to June'24

Name of Industry : Mahal Saharjuri Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition				
Sampling Location	April'24	May'24	June'24		
Mahal School Near Izri River	18.04.2024/ Clear	21.05.2024/ Clear	27.06.2024/ Clear		
Lagla Gram Panchayat	18.04.2024/ Clear	21.05.2024/ Clear	27.06.2024/ Clear		
Bagula School	19.04.2024/ Clear	22.05.2024/ Clear	28.06.2024/ Clear		
Shahar Juri School	19.04.2024/ Clear	22.05.2024/ Clear	28.06.2024/ 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 /	18.04.2024	67.5	38.6	16.4	20.4
School	86°23'41.2" E	21.05.2024	72.4	41.5	15.2	18.7
Near Izri River		27.06.2024	73.5	42.4	17.3	20.6
Lagla	23°37'21.3" N/	18.04.2024	75.2	42.6	16.2	20.3
Gram	86°23'35.3" E	21.05.2024	72.6	41.4	16.5	22.4
Panchayat		27.06.2024	74.2	43.2	18.5	24.6
Bagula	23°36'27.3" N/	19.04.2024	76.5	42.2	16.8	19.5
School	86°21'59.7" E	22.05.2024	72.2	43.4	17.5	21.6
		28.06.2024	78.2	42.6	19.6	25.4
Shahar Juri	23°36'26.6" N/	19.04.2024	72.8	43.4	17.5	21.6
School	86°20'58.9" E	22.05.2024	73.4	42.6	18.7	22.4
		28.06.2024	77.3	44.8	19.5	23.7
Minimum			67.5	38.6	15.2	18.7
	Maximum			44.8	19.6	25.4
	Average		73.74	42.31	17.44	21.77

Readsed

Area Manager (Environment)

Ambient Air Quality Analysis Report

Period- July'24 to September'24

Name of Industry : Mahal Saharjuri	Sand Mining Project	No. of sampling	points : 4		
Someling Logation	Date of Sampling/ Weather Condition				
Sampling Location	July'24	August'24	September'24		
Mahal School Near Izri River	11.07.2024/ Cloudy	28.08.2024/ Clear	23.09.2024/ Cloudy		
Lagla Gram Panchayat	11.07.2024/ Cloudy	28.08.2024/ Clear	23.09.2024/ Cloudy		
Bagula School	12.07.2024/ Cloudy	29.08.2024/ Cloudy	24.09.2024/ Cloudy		
Shahar Juri School	12.07.2024/ Cloudy	29.08.2024/ Cloudy	24.09.2024/ Cloudy		

	Latitude/		PM 10	PM _{2.5}	SO_2	NOx
Location	Longitude	Date	PM 10 Level:	PM 2.5 Level: 24	SOx Level: 24	NOx Level: 24
			24 Hourly	Hourly Limit-	Hourly Limit-	Hourly Limit-
			Limit-100µg/m ³	60µg/m ³	$80\mu g/m^3$	80µg/m ³
Mahal	23°38'06.1'N /	11.07.2024	62.4	35.7	15.2	18.2
School	86°23'41.2" E	28.08.2024	64.5	34.4	13.5	16.5
Near Izri		23.09.2024	62.7	33.6	12.8	17.4
River		25.09.2024	02.7	55.0	12.0	17.4
Lagla	23°37'21.3" N/	11.07.2024	65.2	35.2	14.3	19.8
Gram	86°23'35.3" E	28.08.2024	66.3	33.5	13.5	18.4
Panchayat		23.09.2024	63.2	34.4	12.8	16.7
Bagula	23°36'27.3" N/	12.07.2024	67.5	35.7	16.7	19.8
School	86°21'59.7" E	29.08.2024	64.3	34.8	14.2	18.6
		24.09.2024	62.5	35.4	13.5	16.3
Shahar Juri	23°36'26.6" N/	12.07.2024	64.6	34.6	15.3	21.3
School	86°20'58.9" E	29.08.2024	65.8	32.4	13.4	18.2
		24.09.2024	63.4	36.5	12.7	17.4
Minimum			62.4	32.4	12.8	16.3
Maximum			67.5	36.5	16.7	21.3
	Average		64.37	34.68	13.99	18.22

Redsed

Area Manager (Environment)

Ground Water Quality Analysis

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

				Sample Parameter				
S.No	Date	Location	Time	Depth in meter (m)	рН	Electrical Conductivity, μS/m		
1	22.05.2024	Premsinghdih	10:32AM	7.6	7.3	596		
2	22.05.2024	Lagla	11:45AM	7.7	7.2	627		
3	22.05.2024	Alakdih	11:25AM	7.5	7.4	663		
4	22.05.2024	Joradih	12:42PM	7.8	7.0	587		
5	22.05.2024	SEB Quarters	12:15PM	7.5	7.2	635		
6	22.05.2024	Kargali	02:30PM	7.2	7.3	625		
7	22.05.2024	Kumargora	01:55PM	7.4	7.0	610		
8	22.05.2024	Bhojudih	01:25PM	7.3	7.2	593		
9	22.05.2024	Mahal	12:25PM	7.5	7.1	605		
10	22.05.2024	Sudamdih	01:53PM	7.7	7.3	598		

Monsoon Season - August'24

					arameter	
S.No	Date	Location	Time	Depth in meter (m)	рН	Electrical Conductivity, µS/m
1	29.08.2024	Premsinghdih	9:30AM	2.55	7.2	621
2	29.08.2024	Lagla	11:40AM	2.15	7.1	627
3	29.08.2024	Alakdih	11:00AM	2.32	7.1	664
4	29.08.2024	Joradih	01:55PM	2.68	7.3	620
5	29.08.2024	SEB Quarters	11:25AM	2.42	7.2	632
6	29.08.2024	Kargali	01:52PM	2.26	7.0	626
7	29.08.2024	Kumargora	11:35PM	2.12	7.2	643
8	29.08.2024	Bhojudih	12:40PM	2.13	7.1	597
9	29.08.2024	Mahal	12:20PM	1.88	7.0	624
10	29.08.2024	Sudamdih	12:15PM	2.32	7.2	642

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Area Manager (Environment)

SI.	Location	Sampling Sampling		Тетр	рН	TSS	BOD	Oil & Grease
No.	Location	Date	Time	< 40°C	5.5 - 9.0	100 mg/l	30 mg/l	10 mg/l
1.	River Gowai Up Sttream	24.09.2024	10:40 AM	26.3	7.5	28	2.5	03
2.	River Damodar Down Stream	24.09.2024	11.15 AM	25.8	7.4	26	3.2	0.4
3.	Lagla (Pond)	24.09.2024	01:55PM	24.6	7.3	25	2.7	0.4
4.	Alakhdih(Pond)	24.09.2024	02.:10 PM	25.2	7.6	25	3.4	0.3
5.	Joradih (Pond)	24.09.2024	11:55 AM	24.3	7.5	24	3.2	0.3
6.	SEB Quarters (Pond)	24.09.2024	11:20 AM	25.7	7.4	25	2.8	0.4
7.	Kargali (Pond)	24.09.2024	12:30 PM	23.5	7.3	24	3.2	0.3
8.	Kumargora (Pond)	24.09.2024	12:50 PM	24.2	7.4	25	3.4	0.4
9.	Bhojudih (Pond)	24.09.2024	12:25 PM	24.6	7.5	24	2.6	0.3

Surface Water Quality Analysis

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Area Manager (Environment)