

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/LPMSL/60/ 247/2025 May 28th, 2025

Ref.: Environmental Clearance letter No.-J-11015/426/2008-IA.II(M), Dated-27th February, 2013.

SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEFCC, New Delhi to Lagla Mahal 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-11015/426/2008-IA.II (M), Dated-27th February,2013 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/20492/2011				
Compliance ID	128150817			
Compliance Number(For Tracking)EC/M/COMPLIANCE/128150817/2025				
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: CMC and E-Mail back second to Chair Control IV. Control B. MARKHAND, 201, Notification to Design Decomposite				

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.

	01 Jun(01	ompliance Report 2025 Oct - 31 Mar) V ledgement	
Proposal Name		Lagla and Mahal Sand Lea Steel Ltd., located in Villa Bokaro, Jharkjhand	ase Mining Project of M/s. Tata ge Lagla and Mahal, Dist.
Name of Entity / Corporate Office		Tata Steel Ltd.	
Village(s)		N/A	
District		BOKARO	
Proposal No.	IA/JH/MIN/20492/2011	Category	Non-Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	JHARKHAND	Entity's PAN	****2803M
MoEF File No.	J-11015/426/2008- IA.II(M)	Entity name as per PAN	UTSAV KASHYAP

Compliance Reporting Details

Reporting Year	2025
Remarks (if any)	Half Yearly Compliance Submission 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	10.92	10.92
Total	10.92	10.92

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 Establ Consent to Operate from the Jharkhand State Pollution Board, and effectively implement all the conditions sti	Control
The Con 9357577		d by JSPCB vide letter no. JSPCB/RO/DHN/CTO- current CTO is valid till 31.03.2026. All the conditions as ted with.	Date: 27/05/2025
2	Statutory compliance	The project proponent shall comply with section 3 of Act.	the Mines
	bmission: Complied g complied.		Date: 27/05/2025
3	MISCELLANEOUS	Sand collection shall be done at the middle/ main structure 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 nange in the river course takes place.	Date: 27/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	Particulate level (PM2.5) shall be monitored regularl placed in the public domain.	y and the resu
	bmission: Complied ng of PM2.5 has been carried ou	t in this period. The report is given as Annexure-I.	Date: 27/05/2025
5	GREENBELT	The project proponent shall identify the degraded are mine lease and undertake plantation/afforestation in th identified by planting the native species.	
The mine native sp		we approach the villagers and assist them in planting the e villages. Some of the native species are Pipal, Ber, Jamun,	Date: 27/05/2025
		Effective safeguard measures, such as regular water s be carried out in critical areas prone to air pollution an	d having high ing point and
6	AIR QUALITY MONITORING AND PRESERVATION	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 (parameters conform to the norms prescribed by the Ce Control Board in this regard.	Quality

7	Statutory compliance	The project proponent shall undertake adequate safeg 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 the may be sent regularly to the Ministry of Environment a its Regional Office Bhubaneswar, the Central Ground V at any stage, it is observed that the groundwater table i depleted due to the mining activity, necessary corrective shall be carried out.	due to this area shall not and quality plishing a rs during the pur times in a ost-monsoon)] shall be er ous collected and Forests an Water Water Board. I s getting
The ext as well	as no change in river course invol	st care of the environment. There is no extraction of water ved hence there will be no impact on the hydrogeological and water level and quality is given as Annexure-I.	Date: 27/05/2025
8	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall obtain necessary prior per competent authorities for drawl of requisite of water (s and groundwater), if any, required for the project.	
No wate	ubmission: Complied er is required for the operation of p ompany.	project. Drinking water required by the workers is arranged	Date: 27/05/2025
9	MISCELLANEOUS	Appropriate mitigative measures shall be taken to pro of the river in consultation with the State Pollution Con shall be ensured that there is no leakage of oil and great from the vehicles used for transportation.	ntrol Board. It
Adequa any oil	and grease leakage. Higher capaci	vehicles used for transportation of sand is ensured to avoid ity trucks have been deployed. Without valid fitness allowed to ply, and it is regularly checked.	Date: 27/05/2025
10	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 mine overloaded.	out through th
The veh allowed	. Transportation of sand is always	and maintained. Only vehicles having PUC certificates are s done via tarpaulin-covered trucks which are optimally cles enter premises at weighbridge	Date: 27/05/2025
11	AIR QUALITY MONITORING AND PRESERVATION	No drilling and blasting operation shall be carried ou	t.
PPs S	ubmission: Complied	act	Date: 27/05/2025
Not app	licable as it is a sand mining proje		

Sand, be gatherin through	g and transportation. Sand stored in th	moisture content, does not get air borne during he sand yards is transferred to underground voids vever, dust control measures while transporting of sand trucks and optimal loading.	Date: 27/05/2025
13	Human Health Environment	Provision shall be made for the housing of constructive within the site with all necessary infrastructure and face fuel for cooking, mobile toilets, mobile STP, safe drink medical health care, creche etc. The housing may be in temporary structures to be removed after the completion project.	ilities such as king water, the form of
	ubmission: Complied rkers are from the neighboring village	s and hence new housing facilities are not required.	Date: 27/05/2025
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, c discharge water shall also be monitored [(TDS, DO, PI Coliform and Total Suspended Solids (TSS)]. The mor shall be uploaded on the website of the company as we on a display board at the project site at a suitable locati main gate of the company in public domain. The Circu 20012/1/2006-IA.II(M) dated 27.05.2009 issued by Mi Environment and Forests, which is available on the we Ministry www.envfor.nic.in shall also be referred in th compliance.	nt air within the puality of H, Fecal nitored data ell as displaye ion near the lar No. J- inistry of bsite of the
The mo mining Annexu	operation hence there is no discharge.	n done in this period. There is no use of water for Details of air quality monitoring are given in arly uploaded on companies website along with half-	Date: 27/05/2025
15	MISCELLANEOUS	The Company shall submit within 3 months their pol Corporate Environment Responsibility which should in provide for (i) Standard operating process / process to focus any infringement / deviation / violation of the en forest norms / conditions, (ii) Hierarchical system or A order of the company to deal with the environmental is ensuring compliance with the EC conditions and (iii) S reporting of non-compliances / violations of environment the Board of Directors of the company and / or sharehow stakeholders.	nter-alia bring into vironmental o dministrative sues and for bystem of ental norms to

As per ou	bmission: Complied ar policy, PMEs (Periodical Med		
neral Co		lical Examination) are conducted at regular intervals.	Date: 27/05/2025
	onditions		
Sr.No.	Condition Type	Condition Details	
1	Statutory compliance	No change in mining technology and scope of worki made without prior approval of the Ministry of Enviro forests.	
	bmission: Complied g complied with.		Date: 27/05/2025
2	Statutory compliance	No change in the calendar plan including excavation sand from river bed and waste should be made.	, quantum of
	bmission: Complied g complied with.		Date: 27/05/2025
3	MISCELLANEOUS	Conservation measures for protection of flora and fa & buffer zone should be drawn up in consultation with forest and wildlife department and effectively implem	n the local
	bmission: Complied pecies are found in the area.		Date: 27/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	At least four ambient air quality-monitoring stations established in the core zone as well as in the buffer zo (Particulate matter with size less than 10micron i.e., P monitoring. Location of stations should be decided ba meteorological data, topographical features and enviro ecologically sensitive targets and frequency of monito undertaken in consultation with the State Pollution Co	ne for RSPM M10) and NC sed on the onmentally an ring should b
The moni	bmission: Complied itoring stations have been establ ent air quality analysis reports a	ished and monitoring jobs are being performed regularly. are attached as Annexure-I.	Date: 27/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality [(RSPM(Particulate mat 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
	bmission: Complied g submitted as Annexure-I in thi	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 ar maintained.	loading and

gatheri		ontrol measures while transporting of sand is in	Date: 27/05/2025
7	Noise Monitoring & Prevention	Measures should be taken for control of noise levels in work Environment. Workers engaged in operations 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 422(E) dated 19th May 1993 a December 1993 or as amended from time to time. Oil should be installed before discharge of Workshop eff	to the standar nd 31st 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 protect devices and they should also be provided with adequa information on safety and health aspect. Occupational Surveillance programme of the worker should be und periodically to observe any contraction due to exposu take corrective measures, if needed.	ate training and l Health ertaken
	Submission: Complied ing complied during operating hours.		Date: 27/05/2025
		A separate Environmental Management cell with su	itable qualifie
10	MISCELLANEOUS	personnel should be set-up under the control of a seni who will report directly to the Head of the Organizati	
PPs S We hav	Submission: Complied	who will report directly to the Head of the Organizati ent Cell with qualified personnels. The reporting of	on. Date:
PPs S We hav	Submission: Complied ve a separate Environmental Manageme	who will report directly to the Head of the Organizati ent Cell with qualified personnels. The reporting of	on. Date: 27/05/2025 measures shou r other purpose
PPs S We hav Environ 11 PPs S Expend Environ	Submission: Complied we a separate Environmental Managemental Cell is directly to General Mar MISCELLANEOUS Submission: Complied diture on Environmental Protection meanment Statement every year. The annua	who will report directly to the Head of the Organizati ent Cell with qualified personnels. The reporting of hager of the Division. The funds earmarked for environmental protection to be kept in separate A/C and should not be diverted fo Year wise expenditure should be reported to this mini-	on. Date: 27/05/2025 measures shou r other purpose
PPs S We hav Environ 11 PPs S Expend Environ	Submission: Complied we a separate Environmental Managemental Cell is directly to General Mar MISCELLANEOUS Submission: Complied diture on Environmental Protection meanment Statement every year. The annua	 who will report directly to the Head of the Organizati ent Cell with qualified personnels. The reporting of hager of the Division. The funds earmarked for environmental protection to be kept in separate A/C and should not be diverted for Year wise expenditure should be reported to this mining regional office located at Bhubaneswar. 	on. Date: 27/05/2025 measures shou r other purpose istry and its Date: 27/05/2025 al Office locate and final

13	MISCELLANEOUS	The regional office of this ministry located at Bhuba monitor compliance of the stipulated conditions. The p authorities should extend full co-operation to the office regional office by furnishing the requisite Data/ inform monitoring reports.	project er (s) of the
	Submission: Complied be complied with.		Date: 27/05/2025
14	Statutory compliance	The project proponent shall submit six monthly repo of compliance of the stipulated environment clearance including results of monitored data (both in hard copie e-mail) to the MoEF, its Regional Office Bhubaneswar zonal office of CPCB and the SPCB. The proponent sh status of compliance of the environmental clearance co including results of monitored data on their website an the same periodically. It shall simultaneously be sent to Office of the MoEF, Bhubaneswar, the respective Zon CPCB and the SPCB.	conditions as as well as by r, the respectiv nall upload the onditions, d shall update o the Regional
It is be	Submission: Complied ing complied with. We are uploadir iance on PARIVESH Portal.	ng the compliance of October -2024 to March-2025 HY	Date: 27/05/2025
15	Statutory compliance	A copy of the clearance letter shall be sent by the pro- concerned Panchayat, Zila Parisad/ Municipal Corpora local Body and the Local NGO, if any, from whom sug representations, if any, were received while processing The clearance letter shall also be put on the website of by the proponent.	ation, Urban ggestions/ g the proposal.
	Submission: Complied been complied with.		Date: 27/05/2025
16	Statutory compliance	The State Pollution Control Board should display a c clearance letter at the Regional Office, District Industr the Collector's Office / Tehsildar's Office for 30 days.	y Centre and
The co	Submission: Complied py of clearance letter has been sent ted to JSPCB.	to JSPCB office and its compliance report is also	Date: 27/05/2025
		The environmental statement for each financial year March in Form-V as is mandated to be submitted by th proponent to the concerned State Pollution Control Bo prescribed under the Environment (Protection) Rules, amended subsequently, shall also be put on the website	ne project ard as 1986, as
17	Statutory compliance	company along with the status of compliance of enviro clearance conditions and also be sent to the respective Office of the Ministry on Environment and Forests, Bh e-mail.	onmental Regional
PPs S The en Septem compa:	Submission: Complied vironmental statement for financial aber 2024 vide letter no. JMB/ENV/	company along with the status of compliance of enviro clearance conditions and also be sent to the respective Office of the Ministry on Environment and Forests, Bh	onmental Regional

newspapers of the District or State in which the project is located widely circulated, one of which shall be in the vernacular langu the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environment clearance and a copy of the clearance letter is available with the Pollution Control Board and also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of th same should be forwarded to the Regional Office of this Ministr located at Bhubaneswar.		hall be in the vernacular language of ays of the issue of the clearance as been accorded environmental unce letter is available with the State at website of the Ministry of //envfor.nic.in and a copy of the Regional Office of this Ministry
PPs Submission: Complied It has been complied with.		Date: 27/05/2025
	Visit Remarks	
Last Site Visit Report Date:	N/A	
	reference purpose.	

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

LAGLA MAHAL SAND LEASE (CAPACITY: 0.1 MTPA RIVER BED SAND) VILLAGE: LAGLA & MAHAL, 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-11015/426/2008-IA.II(M) DATED- 27.02.2013 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-9357577/2021/35 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)	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.
(iv)	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.
(v)	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.
(vi)	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out of haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	It is being complied. Water spraying is done on the transportation roads on regular basis. The ambient air quality is regularly monitored and analyses by own as well as by NABL and JSPCB recognized lab and conform to the prescribed standards. Reports are enclosed as Annexure-I .
(vii)	The project proponent shall undertake adequate safeguard measures during extraction of river bed material and	The extraction of sand is done with utmost care of the environment. There is no extraction of water as well as no change in

	ensure that due to this activity the hydrogeological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing well and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	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 .
(viii)	shall be carried out. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite of water (surface water and	No water is required for the operation of project. Drinking water required by the workers is arranged by the company.
	groundwater), if any, required for the project.	
(ix)	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.

(x)	Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	The vehicles used are regularly checked and maintained. Only vehicles having PUC certificates are allowed. Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded. This is monitored whenever vehicles enter premises at weighbridge
(xi)	No drilling and blasting operation shall be carried out.	Not applicable as it is a sand mining project.
(xii)	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, does not get air borne during gathering & transportation. 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.
(xiii)	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.
(xiv)	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.
(xv)	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,	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 quality monitoring are given in Annexure-I. The monitoring reports are regularly uploaded on company's

	PH, Fecal Coliform and Total	website along with half-yearly EC
	Suspended Solids (TSS)]. The	compliance reports.
	monitored data shall be uploaded on the	compliance reports.
	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.	
(xvi)	The Company shall submit within 3	The Company already has an Environment
	months their policy towards Corporate	Policy approved by the Managing Director
	Environment Responsibility which	and it addresses all the issues mentioned.
	should inter-alia provide for (i)	The status of adherence to the policy and
	Standard operating process / process to	compliance to Environmental laws and
	bring into focus any infringement /	regulations is regularly discussed at higher
	deviation / violation of the	levels. Any non-compliance noticed is
	environmental or forest norms /	corrected at divisional level. If any issue is
	conditions, (ii) Hierarchical system or	beyond our control, it is brought to the notice
	Administrative order of the company to	of higher management. The environment
	deal with the environmental issues and	management cell directly reports to General
	for ensuring compliance with the EC	Manager and it is reviewed on weekly basis.
	conditions and (iii) System of reporting	We have an online system to monitor the
	of non-compliances / violations of	statutory requirements and compliance in
	environmental norms to the Board of	time. This is reviewed by Board of Directors
	Directors of the company and / or	at company's level.
	shareholders or stakeholders.	at company 5 level.

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	It is being complied with.
	including excavation, quantum of sand	

	from river bed and waste should be	
	made.	
(***)		No man and in the same
(iii)	Conservation measures for protection of flora and fauna in the core & buffer	No fare species are found in the area.
	zone should be drawn up in	
	consultation with the local forest and	
	wildlife department and effectively	
<i>(</i> •)	implemented.	
(iv)	At least four ambient air quality-	The monitoring stations have been
	monitoring stations should be	established and monitoring jobs are being
	established in the core zone as well as	performed regularly. The ambient air quality
	in the buffer zone for RSPM	analysis reports are attached as Annexure-I.
	(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.	
(v)	Data on ambient air quality	It is being submitted as Annexure-I in this
	[(RSPM(Particulate matter with size	compliance report.
	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.	
(vi)	Fugitive dust emissions from all the	Sand, being coarse in nature and having high
	sources should be controlled regularly.	moisture content, does not get air borne
	Water spraying arrangement on haul	during gathering & transportation. However,
	roads, loading and unloading and at	dust control measures while transporting of
	transfer points should be provided and	sand is in place through water tanker,
	properly maintained.	coverage of trucks and optimal loading.
(vii)	Measures should be taken for control of	Proper PPE's are provided to all the workers.
(*11)	noise levels below 85 dBA in work	roper i i L's are provided to an the workers.
	Environment. Workers engaged in	
	Environment. workers engaged in	

	operations of HEMM, etc. should be	
	provided with ear plugs / muffs.	
(viii)	Industrial waste water (Workshop and	No waste water generation will take place.
(*111)	Waste water from the mine) should be	No waste water generation will take place.
	properly collected, treated so as to	
	conform to the standards prescribed	
	under GSR 422(E) dated 19th May	
	1993 and 31st December 1993 or as	
	amended from time to time. Oil and	
	Grease trap should be installed before	
	discharge of Workshop effluents.	
(ix)	Personnel working in dusty area should	It is being complied during operating hours.
(111)	wear protective respiratory devices and	it is being complete during operating nours.
	they should also be provided with	
	adequate training and information on	
	safety and health aspect.	
	Occupational Health Surveillance	
	programme of the worker should be	
	undertaken periodically to observe any	
	contraction due to exposure to dust and	
	take corrective measures, if needed.	
(x)	A separate Environmental	We have a separate Environmental
	Management cell with suitable	Management Cell with qualified personnel's.
	qualified personnel should be set-up	The reporting of Environmental Cell is
	under the control of a senior executive,	directly to General Manager of the Division.
	who will report directly to the Head of	
	the Organization.	
(xi)	The funds earmarked for	Expenditure on Environmental Protection
	environmental protection measures	measures is monitored separately. It is
	should be kept in separate A/C and	provided in the Environment Statement every
	should not be diverted for other	year. The annual expenditure for the financial
	purposes. Year wise expenditure	year 2023-24 is Rs. 0.403 lakhs for water
	should be reported to this ministry and	spraying activities on transport road,
	its regional office located at	plantation and environment monitoring.
	Bhubaneswar.	
(The project authorities should inform	The CTE and CTO of the project have been
(xii)	The project authorities should inform to the Regional Office located at	The CTE and CTO of the project have been granted by JSPCB. The permission for lifting
	to the Regional Office located at Bhubaneswar regarding date of	of sand from the river bed has also been
	financial closures and final approval of	granted by District Mining Officer, Bokaro.
	the project by the concerned authorities	graned by District Willing Officer, Bokaro.
	the project by the concerned authorities	

	and the data of start of land	
	and the date 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 Data/	
	information/ monitoring reports.	
(xiv)	The project proponent shall submit six	It is being complied with. We are uploading
	monthly reports on the status of	the compliance of October -2024 to March-
	compliance of the stipulated	2025 HY Compliance on PARIVESH Portal.
	environment clearance conditions	
	including results of monitored data	
	(both in hard copies as well as by e-	
	mail) to the MoEF, its Regional Office	
	Bhubaneswar, the respective zonal	
	office of CPCB and the SPCB. 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 MoEF,	
	Bhubaneswar, the respective Zonal	
	Officer of CPCB and the SPCB.	
(xv)	A copy of the clearance letter shall be	It has been complied with.
	sent by the proponent to concerned	
	Panchayat, Zila Parisad/ Municipal	
	Corporation, Urban local Body and the	
	Local NGO, if any, from whom	
	suggestions/ representations, if any,	
	were received while processing the	
	proposal. The clearance letter shall also	
	be put on the website of the company	
	by the proponent.	
(xvi)	The State Pollution Control Board	The copy of clearance letter has been sent to
	should display a copy of the clearance	JSPCB office and its compliance report is
	letter at the Regional Office, District	also submitted to JSPCB.

	Industry Centre and the Collector's	
	Office / Tehsildar's Office for 30 days.	
(xvii)	The environmental statement for each	The environmental statement for financial
		year 2023-24 has been submitted to JSPCB
	financial year ending 31st March in	•
	Form-V as is mandated to be submitted	on 27 th September 2024 vide letter no.
	by the project proponent to the	JMB/ENV/ESSA/05/562/2024 and it is also
	concerned State Pollution Control	uploaded on the company website. The soft
	Board as prescribed under the	copy of Environment Statement is also sent
	Environment (Protection) Rules, 1986,	to MOEF by email at ro.ranchi-mef@gov.in.
	as amended subsequently, shall also be	
	put on the website of the company	
	along with the status of compliance of	
	environmental clearance conditions	
	and also be sent to the respective	
	Regional Office of the Ministry on	
	Environment and Forests,	
	Bhubaneswar by e-mail.	
(xviii)	The project authorities should advertise	It has been complied with.
	at least in two local newspapers of the	_
	District or State in which the project is	
	located and widely circulated, one of	
	which shall be in the vernacular	
	language of the locality concerned,	
	within 7 days of the issue of the	
	clearance letter informing that the	
	project has been accorded	
	environmental clearance and a copy of	
	the clearance letter is available with	
	the State Pollution Control Board and	
	also at website of the Ministry of	
	Environment and Forests at	
	http://envfor.nic.in and a copy of the	
	same should be forwarded to the	
	Regional Office of this Ministry	
	located at Bhubaneswar.	
	iocated at Dhubaneswal.	
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IS		ting Labora ABL ACCREDI Board of Quality	atory TED Council of In	dia)	Plot No I-B-17 (P) Sindri, Industrial Area, P.O Domgarh, Dist - Jharkhand - 828107 Email ID: sindriaditi@ Website: aditimdservi Phone: 0326-2952377 Fax: 0326-2952377 Mobile: 09471358492
Ref. No.:	- ARDS/24-25/AAQ/1			Date	e: 30/11/2024
	TEST RE	PORT OF A	MBIENT AI	R QUALITY	
• W • D	ame of the industry ork Order Ref. NO.: ate of Sample Collection ate of Testing est Procedure	TATA S (SAND L DIST : 47001269 on : 22/11/202 : 25/11/202 : As per IS-	DHANBA D 557/932 Date 4 To 23/11/20 24 To 27/11/20	ERY A, BHOJUDIH) (JHARKHAND) :- 29/05/2024 24	
<u> </u>	LOC	ATION - ICO	CHAR HIGH S	CHOOL	
	Avg. Ambient Te	mperature	25°C	Avg. Humid	fity 52%
SI No.	Particulars		Value	CPCB S	TANDARD
1.	Particulate Matter (PM	110), μg/m ³	73.97	100) µg/m³
2.	Particulate Matter (PM	1 _{2.5}), µg/m ³	43.64	60	µg/m³ ·
3.	SO ₂ , µg/m ³		18.81	80	µg/m³
4.	NO ₂ , µg/m ³		27.76	80	µg/m²
5.	Ozone, µg/m ³		17.12	1000) µg/m³
6.	NH ₃ , µg/m ³		19.65) µg/m³
7.	CO, mg/m ³		0.79		mg/m³
8.	Pb, µg/m ³		BDL		hð\wa
9.	As, ng/m ³		BDL		ng/m³
10.	Ni, ng/m ³		BDL		ng/m³
11.	Benzene, µg/m ³ Benzoapyrene ng/m ³		BDL		µg/m³ ng/m³
12.	DEDLOOD VIENE HU/III*		BUL	13	ngim.

Ref. No.: - ARDS/24-25/ AQ0/2 Date: 30/11/202 DEST REPORT OF AMBIENT AIR QUALITY IST REPORT OF 2011/2024 To 23/11/2024 IST REPORT OF 2011/12/024 IST REP	IS		ting Labora BLACCREDIT Board of Quality	atory TED Y Council of Ind	PO- Jhark Email Webs chon Phon Fax I Fax I	No I-B-17 (P) 1. Industrial Area, Domgarh, Dist Dhanba thand - 828107 IID: sindriaditi@gmail.co site: aditimdservices.com e: 0326-2952377 (O). 0326-2952377 le: 09471358492, 094315
• 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 Sample Collection : 22/11/2024 To 23/11/2024 • Date of Testing :: 25/11/2024 To 23/11/2024 • Test Procedure :: As per IS-5182 IEST RESULTS ICCATION - LAGLA GRAM PANCHYAT • Avg. Ambient Temperature 25°C • Avg. Ambient Temperature 25°C • Particulars Value • Particulare Matter (PM ₁₀), µg/m ³ 64.28 • 1. Particulare Matter (PM ₁₀), µg/m ³ • 2. Particulate Matter (PM ₁₀), µg/m ³ • 3. SO2, µg/m ³ • 4. NO2, µg/m ³ • 6. NHa, µg/m ³ • 1. Particulare • 020ne, µg/m ³ 16.86 • 1. B0µg/m ³ • 2. Particulare • 020ne, µg/m ³ 16.86 • 020ng/m ³ 16.86 • 020ng/m	Ref. No.	: - ARDS/24-25/ AAQ/2			Da	ate: 30/11/2024
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 Sample Collection: : 22/11/2024 To 23/11/2024 • Date of Testing : 25/11/2024 To 23/11/2024 • Test Procedure : 25/11/2024 To 27/11/2024 • Test Procedure : As per IS-5182 IET RESULTS LOCATION – LAGLA GRAM PANCHYAT • Avg. Ambient Temperature 25°C • Particulates Matter (PM ₁₀), µg/m ³ 64.28 100 µg/m ³ • Particulate Matter (PM ₁₀), µg/m ³ 16.75 80 µg/m ³ • Avg. µg/m ³ 16.75 80 µg/m ³ • No2, µg/m ³ 16.86 180 µg/m ³ • No2, µg/m ³ 16.86 180 µg/m ³ • Ozone, µg/m ³ 0.52 4 mg/m ³ • NH3, µg/m ³ BDL 1 µg/m ³ • As, ng/m ³ BDL 6 ng/m ³ • Di Phyg/m ³ BDL 5 µg/m ³ • Di Phyg/m ³ BDL 1 µg/m ³ • Di Phyg/m ³ BDL 5 µg/m ³		TEST RE	PORT OF A	MBIENT AI	R QUALITY	
LOCATION - LAGLA GRAM PANCHYAT Avg. Ambient Temperature 25°C Avg. Humidity 52% SI No. Particulars Value CPCB STANDARD 1. Particulate Matter (PM10), µg/m³ 64.28 100 µg/m³ 2. Particulate Matter (PM2.6), µg/m³ 38.44 60 µg/m³ 3. SO2, µg/m³ 16.75 80 µg/m³ 4. NO2, µg/m³ 16.86 180 µg/m³ 5. Ozone, µg/m³ 16.86 180 µg/m³ 6. NH3, µg/m³ 14.38 400 µg/m³ 7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, µg/m³ BDL 1 µg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 20 ng/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit MXH	• v	Vork Order Ref. NO. Pate of Sample Collection Pate of Testing	TATA S (SAND L DIST L : 4700126 on : 22/11/202 : 25/11/202 : As per IS	TEEL COLLI LEASE ARE/ DHANBAD (. 557/932 Date 24 To 23/11/20 24 To 27/11/20 -5182	ERY A, BHOJUDIH) JHARKHAND) :- 29/05/2024 24	
Avg. Ambient Temperature 25°C Avg. Humidity 52% SI No. Particulars Value CPCB STANDARD 1. Particulate Matter (PM ₁₀), µg/m³ 64.28 100 µg/m³ 2. Particulate Matter (PM ₂₅), µg/m³ 38.44 60 µg/m³ 3. SO ₂ , µg/m³ 16.75 80 µg/m³ 4. NO ₂ , µg/m³ 26.74 80 µg/m³ 5. Ozone, µg/m³ 16.86 180 µg/m³ 6. NH ₃ , µg/m³ 14.38 400 µg/m³ 7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, µg/m³ BDL 1 µg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 5 µg/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit 1 mg/m³			ILOT	NEOVE IV		
SI No. Particulars Value CPCB STANDARD 1. Particulate Matter (PM ₁₀), µg/m ³ 64.28 100 µg/m ³ 2. Particulate Matter (PM _{2.5}), µg/m ³ 38.44 60 µg/m ³ 3. SO ₂ , µg/m ³ 16.75 80 µg/m ³ 4. NO ₂ , µg/m ³ 26.74 80 µg/m ³ 5. Ozone, µg/m ³ 16.86 180 µg/m ³ 6. NH ₃ , µg/m ³ 14.38 400 µg/m ³ 7. CO, mg/m ³ 0.52 4 mg/m ³ 8. Pb, µg/m ³ 8DL 1µg/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 5µg/m ³ 12. Benzoapyrene ng/m ³ BDL 1 ng/m ³ 12. Below Detection Limit XMEW		1004	TION - LAG	AGRAMPA	NCHYAT	
2. Particulate Matter (PM2.5), µg/m³ 38.44 60 µg/m³ 3. SO2, µg/m³ 16.75 80 µg/m³ 4. NO2, µg/m³ 26.74 80 µg/m³ 5. Ozone, µg/m³ 16.86 180 µg/m³ 6. NH3, µg/m³ 14.38 400 µg/m³ 7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, µg/m³ BDL 1 µg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 5 µg/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit 5 µg/m³	_		A STATE OF A STATE	service of special chain	2000000000	52%
3. SO ₂ µg/m ³ 16.75 80 µg/m ³ 4. NO ₂ µg/m ³ 26.74 80 µg/m ³ 5. Ozone, µg/m ³ 16.86 180 µg/m ³ 6. NH ₃ , µg/m ³ 14.38 400 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 ³ 11. Benzene, µg/m ³ BDL 5 µg/m ³ 12. Benzoapyrene ng/m ³ BDL 1 ng/m ³ NOTE: BDL - Below Detection Limit	SI No	Avg. Ambient Te	A STATE OF A STATE	25°C	Avg. Humidity	
4. NO2, µg/m³ 26.74 80 µg/m³ 5. Ozone, µg/m³ 16.86 180 µg/m³ 6. NH3, µg/m³ 14.38 400 µg/m³ 7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, µg/m³ BDL 1 µg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 20 ng/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit MLHH		Avg. Ambient Te . Particulars	mperature	25ºC Value	Avg. Humidity CPCB STAN	DARD
5. Ozone, μg/m³ 16.86 180 μg/m³ 6. NH ₃ , μg/m³ 14.38 400 μg/m³ 7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, μg/m³ BDL 1 μg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 20 ng/m³ 11. Benzene, μg/m³ BDL 5 μg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit MLHH	1.	Avg. Ambient Te Particulars Particulate Matter (PN	mperature 110), µg/m ³	25 ⁰ C Value 64.28	Avg. Humidity CPCB STAN 100 µg/n	DARD
6. NH ₃ , μg/m ³ 14.38 400 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 ³ 11. Benzene, μg/m ³ BDL 5 μg/m ³ 12. Benzoapyrene ng/m ³ BDL 1 ng/m ³ NOTE: BDL - Below Detection Limit	1. 2.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM	mperature 110), µg/m ³	25 ⁰ C Value 64.28 38.44	Avg. Humidity CPCB STAN 100 µg/n 60 µg/m	n ³
7. CO, mg/m³ 0.52 4 mg/m³ 8. Pb, µg/m³ BDL 1 µg/m³ 9. As, ng/m³ BDL 6 ng/m³ 10. Ni, ng/m³ BDL 20 ng/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit	1. 2. 3.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³	mperature 110), µg/m ³	25 ⁰ C Value 64.28 38.44 16.75	Avg. Humidity CPCB STAN 100 µg/m 60 µg/m 80 µg/m	DARD n ³ 1 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 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit	1. 2. 3. 4.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³ NO ₂ , µg/m ³	mperature 110), µg/m ³	25 ⁰ C Value 64.28 38.44 16.75 26.74	Avg. Humidity CPCB STAN 100 μg/n 60 μg/m 80 μg/m 80 μg/m	DARD n ³ 1 ³ 1 ³
9. As, ng/m ³ BDL 6 ng/m ³ 10. Ni, ng/m ³ BDL 20 ng/m ³ 11. Benzene, µg/m ³ BDL 5 µg/m ³ 12. Benzoapyrene ng/m ³ BDL 1 ng/m ³ NOTE: BDL - Below Detection Limit	1. 2. 3. 4. 5.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³	mperature 110), µg/m ³	25 ⁰ C Value 64.28 38.44 16.75 26.74 16.86	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m	DARD n ³ 1 ³ 1 ³ 1 ³
10. Ni, ng/m³ BDL 20 ng/m³ 11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit Image: Second Se	1. 2. 3. 4. 5. 6.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³	mperature 110), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m 400 μg/m	DARD n ³ i ³ i ³ n ³ n ³
11. Benzene, µg/m³ BDL 5 µg/m³ 12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit Image: Second Secon	1. 2. 3. 4. 5. 6. 7. 8.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM 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	mperature 110), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m 180 μg/m 400 μg/m	DARD n ³ 1 ³ 1 ³ 1 ³ 1 ³ 1 ³ 1 ³
12. Benzoapyrene ng/m³ BDL 1 ng/m³ NOTE: BDL - Below Detection Limit Image: Second Secon	1. 2. 3. 4. 5. 6. 7. 8. 9.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM 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 As, ng/m ³	mperature 110), µg/m ³	25 ⁰ C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m 400 μg/m 1 μg/m ² 1 μg/m ² 6 ng/m ³	DARD n ³ 1 ³
NOTE: BDL - Below Detection Limit	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM 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 As, ng/m ³ Ni, ng/m ³	mperature 110), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL BDL BDL	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m 400 μg/m 1μg/m ² 6 ng/m ² 20 ng/m	IDARD n ³ 1 ³
Potely Arthe Rathe	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Avg. Ambient Te Particulars Particulate Matter (PN Particulate Matter (PN SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³	mperature 110), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL BDL BDL BDL	Avg. Humidity CPCB STAN 100 µg/m 60 µg/m 80 µg/m 80 µg/m 180 µg/m 400 µg/n 400 µg/n 1 µg/m ² 6 ng/m ³ 20 ng/m	DARD n ³ 1 ³
Sr. Chemist	1. 2. 3. 4. 5. 6. 7. 8. 9.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM 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 As, ng/m ³	mperature 110), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL BDL	Avg. Humidity CPCB STAN 100 μg/m 60 μg/m 80 μg/m 80 μg/m 180 μg/m 400 μg/m 1 μg/m ² 1 μg/m ² 6 ng/m ³	DARD n ³ 1 ³
Sr. Chemist Aditi R&D Services Aditi R&D Services, Sindr	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³ Benzoapyrene ng/m ³	mperature M10), µg/m ³ M2.5), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL BDL BDL BDL	Avg. Humidity CPCB STAN 100 µg/m 60 µg/m 80 µg/m 80 µg/m 180 µg/m 400 µg/n 400 µg/n 1 µg/m ² 6 ng/m ³ 20 ng/m	DARD n ³ 1 ³
ements :	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. NOTE:	Avg. Ambient Te Particulars Particulate Matter (PM Particulate Matter (PM SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ Ozone, µg/m ³ Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Benzene, µg/m ³ Benzoapyrene ng/m ³ BDL - Below Detection Li	mperature M10), µg/m ³ M2.5), µg/m ³	25°C Value 64.28 38.44 16.75 26.74 16.86 14.38 0.52 BDL BDL BDL BDL	Avg. Humidity CPCB STAN 100 µg/m 60 µg/m 80 µg/m 80 µg/m 180 µg/m 180 µg/m 400 µg/m 400 µg/m 1 µg/m ³ 6 ng/m ³ 20 ng/m 5 µg/m ³	DARD n ³ 1 ⁴ 1 ⁴

Ref. No.: - A	C 17025:2017, ISO 9001:2015,ISO (C ARDS/24-25/ AAQ/3 <u>TEST REPORT OF A</u>	HSAS) 45001:		0326-2952377
				le: 09471358492, 094
Nam	TEST REPORT OF A		Date: 30	0/11/2024
Nam		MBIENT AI	R QUALITY	
	e of the industry : TATA S	TEEL JHARI	A DIVISION	
	TATA S	TEEL COLLI	ERY	
	(SAND I	LEASE ARE	A, BHOJUDIH)	
			HARKHAND)	
Wor		557/932 Date		
	of Sample Collection : 22/11/202			
		24 To 27/11/2		
	Procedure : As per IS			
1000		- O TOL		
	TEST	RESULTS		
1				
1	LOCATION - SA	AHARJURI S	CHOOL	-
	LOCATION - S/ Avg. Ambient Temperature	25ºC	CHOOL Avg. Humidity	52%
SI No.	Avg. Ambient Temperature Particulars			0.000
1.	Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³	25°C	Avg. Humidity CPCB STAN 100 µg/r	iDARD m ³
1. 2.	Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³	25 ⁰ C Value	Avg. Humidity CPCB STAN 100 µg/r 60 µg/r	n ³
1. 2. 3.	Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³	25 ⁰ C Value 62.79	Avg. Humidity CPCB STAN 100 µg/r	n ³
1. 2. 3. 4.	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	25 ⁰ C Value 62.79 37.71	Avg. Humidity CPCB STAN 100 µg/r 60 µg/r 80 µg/r 80 µg/r	1DARD m ³ n ³ n ³
1. 2. 3. 4. 5.	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	25 ⁰ C Value 62.79 37.71 15.48	Avg. Humidity CPCB STAN 100 μg/r 60 μg/r 80 μg/r 80 μg/r 180 μg/r	1DARD m ³ n ³ n ³ n ³ n ³
1. 2. 3. 4. 5. 6.	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	25 ⁰ C Value 62.79 37.71 15.48 26.96 18.20 14.88	Avg. Humidity CPCB STAN 100 μg/r 60 μg/r 80 μg/r 80 μg/r 180 μg/r 400 μg/r	IDARD m ³ n ³ n ³ n ³ n ³ n ³
1. 2. 3. 4. 5. 6. 7.	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	25 ⁰ C Value 62.79 37.71 15.48 26.96 18.20 14.88 0.62	Avg. Humidity CPCB STAN 100 μg/r 60 μg/r 80 μg/r 80 μg/r 180 μg/r 400 μg/r 4 mg/m	IDARD m ³ n ³ n ³ n ³ n ³ n ³ n ³
1. 2. 3. 4. 5. 6. 7. 8.	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 CO, mg/m ³ Pb, µg/m ³	25 ⁰ C Value 62.79 37.71 15.48 26.96 18.20 14.88 0.62 BDL	Avg. Humidity CPCB STAN 100 µg/m 60 µg/m 80 µg/m 80 µg/m 180 µg/m 400 µg/m 4 mg/m 1 µg/m	IDARD m ³ n ³ n ³ n ³ m ³ n ³ i ³
1. 2. 3. 4. 5. 6. 7. 8. 9.	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 As, ng/m ³	25 ⁰ C Value 62.79 37.71 15.48 26.96 18.20 14.88 0.62 BDL BDL	Avg. Humidity CPCB STAN 100 µg/r 60 µg/r 80 µg/r 80 µg/r 180 µg/r 400 µg/r 400 µg/r 1 µg/m 1 µg/m 6 ng/m	IDARD m ³ n ³ n ³ n ³ n ³ n ³ n ³ n ³ 3 3
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	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 As, ng/m ³ Ni, ng/m ³	25°C Value 62.79 37.71 15.48 26.96 18.20 14.88 0.62 BDL BDL BDL	Avg. Humidity CPCB STAN 100 µg/r 60 µg/r 80 µg/r 80 µg/r 180 µg/r 180 µg/r 400 µg/r 4 mg/m 1 µg/m 6 ng/m 20 ng/r	IDARD m ³ n ³ n ³ n ³ n ³ n ³ n ³ n ³ n
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	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 As, ng/m ³	25 ⁰ C Value 62.79 37.71 15.48 26.96 18.20 14.88 0.62 BDL BDL	Avg. Humidity CPCB STAN 100 µg/r 60 µg/r 80 µg/r 80 µg/r 180 µg/r 400 µg/r 400 µg/r 1 µg/m 1 µg/m 6 ng/m	IDARD m ³ n ³ n ³ n ³ n ³ n ³ 1 ³ 1 ³ 1 ³

S BE ISO/		ACCREDIT	TED Council of Ind	P.OD Jharkh Email I Websit dia) Phone Fax: 00	 b I-B-17 (P) Industrial Area, Domgarh, Dist - Dhan and - 828107 ID: sindriadili@gmail. te: aditimdservices.cc 0326-2952377 (0), 326-2952377 09471358492, 0943
Ref. No.: -	ARDS/24-25/ AAQ/4			Date: 30	/11/2024
	TEST REP	ORT OF A	MBIENT AI	R QUALITY	
Wo Dat Dat	me of the industry ork Order Ref. NO.: te of Sample Collection te of Testing st Procedure	TATA ST (SAND L DIST E : 47001265 : 22/11/202 : 25/11/202 : As per IS	DHANBAD (. 557/932 Date 4 To 23/11/20 24 To 27/11/2	ERY A, BHOJUDIH) JHARKHAND) :- 29/05/2024 924	
	LOCATION		AY COLONY	BHOJUDIH	
-	Avg. Ambient Temp	1	25°C	Avg. Humidity	52%
CLM	Particulars	and the second	Value	CPCB STAN	DARD
SI No.	Particulate Matter (PM10)	, µg/m ³	73.20	100 µg/m	3
51 No.		involution prototation and and and and and and and and and an	a code tieles de re-		
	Particulate Matter (PM2.6)), µg/m³	42.75	60 µg/m³	4
1.	In the second), µg/m³	42.75 18.58	60 µg/m³ 80 µg/m³	
1. 2.	Particulate Matter (PM2.6)), µg/m³	1.27531.5		-
1. 2. 3.	Particulate Matter (PM _{2.6}) SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³), µg/m³	18.58	80 µg/m³	
1. 2. 3. 4.	Particulate Matter (PM _{2.6}) SO ₂ , µg/m ³ NO ₂ , µg/m ³), µg/m³	18.58 28.76	80 µg/m³ 80 µg/m²	3
1. 2. 3. 4. 5. 6. 7.	Particulate Matter (PM _{2.6}) SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³), µg/m³	18.58 28.76 20.81	80 µg/m³ 80 µg/m³ 180 µg/m	3
1. 2. 3. 4. 5. 6. 7. 8.	Particulate Matter (PM _{2.6}) SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³), µg/m³	18.58 28.76 20.81 16.43	80 μg/m ³ 80 μg/m ³ 180 μg/m 400 μg/m 4 mg/m ³ 1 μg/m ³	3
1. 2. 3. 4. 5. 6. 7. 8. 9.	Particulate Matter (PM _{2.6}) 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 As, ng/m ³), µg/m³	18.58 28.76 20.81 16.43 0.78 BDL BDL	80 μg/m ³ 80 μg/m ³ 180 μg/m 400 μg/m 4 mg/m ³ 1 μg/m ³ 6 ng/m ³	3
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Particulate Matter (PM _{2.6}) 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 As, ng/m ³ Ni, ng/m ³), µg/m³	18.58 28.76 20.81 16.43 0.78 BDL BDL BDL BDL	80 µg/m ³ 80 µg/m ³ 180 µg/m 400 µg/m 4 mg/m ³ 1 µg/m ³ 6 ng/m ³ 20 ng/m ³	3
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Particulate Matter (PM _{2.6}) 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 As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³), µg/m³	18.58 28.76 20.81 16.43 0.78 BDL BDL BDL BDL BDL	80 μg/m ³ 80 μg/m ³ 180 μg/m 400 μg/m 4 mg/m ³ 1 μg/m ³ 6 ng/m ³ 20 ng/m ³ 5 μg/m ³	3
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. NOTE: BI	Particulate Matter (PM _{2.6}) 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 As, ng/m ³ Ni, ng/m ³		18.58 28.76 20.81 16.43 0.78 BDL BDL BDL BDL	80 µg/m ³ 80 µg/m ³ 180 µg/m 400 µg/m 4 mg/m ³ 1 µg/m ³ 6 ng/m ³ 20 ng/m ³	

- 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.

Ref. N	o. & Date							NITORING	
/24-25/ NOIS	-	-	T		NA	ME A	ND ADDRES	S OF THE CL	IENT
ARDS/24-25/ NOISE/1 Date: 30/11/2024					TA	TAS	STEEL JH	ARIA DIVIS	ION
						TA	TA STEEL	COLLIERY	
Date of	Date of Monitoring				(SA	ND I	LEASE AR	EA, BHOJU	JDIH)
					23				
22/11/2024 To		1/2024		Aml Tempe	/g. pient erature	A	verage	Weather Condition	Status of the plant
Work Order 4700126557/932 Date:- 29/05/2024							52	Clear	Not in operational
		_	MON	ITORI	NG RE	SULT	rs		
Place of Monitoring	C	6 AM to 1	10 PM)	Night Time (10 PM to 6 AM) Avg. dB(A)		6 AM)	AM) (Amendment) Rules, AM) (Amendment) Rules, A) notified vide S.O. 10 Dt. 22.11.2020 Limit in dB(A) Le		
OCATION	MAX	MIN	AVG dB		AX M	IN	AVERAGE	and the second se	Night Time Residential
	mico	mile	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		~ "		dB(A) Leq	Area	Area
	64.8	50.4	61.94	4 45	9.6 43	3.8	47.6		÷.,
	61.7	58.2	60.29	9 54	1.7 44	1.5	52.09	65.00	55.00
	59.8	52.7	57.56	6 43	3.8 35	5.4	41.38		
	60.8	50.3	58.10	6 48	3.9 40).3	46.45	·	1
	Work Order Date:- 2 Place of Monitoring DCATION LEASE AREA agla Gram Panchayat Saharjuri School cchar High School Railway Colony,	Work Order 47001265 Date:- 29/05/202 Place of Monitoring ((DCATION MAX LEASE AREA agla Gram Panchayat 64.8 Saharjuri School 61.7 School 59.8 School 59.8 School 60.8	Date:- 29/05/2024 Place of Monitoring Day Ti (6 AM to Avg. d DCATION MAX MIN LEASE AREA 64.8 50.4 Janchayat 61.7 58.2 School 59.8 52.7 School 60.8 50.3	Work Order 4700126557/932 Date:- 29/05/2024 Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) DCATION MAX MIN Avg. dB(A) Cocation 64.8 50.4 61.9 School 69.8 52.7 57.56 School 59.8 52.7 57.56 School 60.8 50.3 58.10	22/11/2024 To 23/11/2024 Amt Temper (************************************	DIS Avg. Ambient Temperature (°C) Work Order 4700126557/932 Date:-29/05/2024 MONITORING RES Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) Ni (10 H Avg. dB(A) DCATION LEASE AREA MAX MIN Avg. dB(A) Leq MAX M OCATION LEASE AREA MAX MIN Avg. dB(A) Leq MAX M Saharjuri School 61.7 58.2 60.29 54.7 44 School 59.8 52.7 57.56 43.8 35 Railway Colony, 60.8 50.3 58.16 48.9 40	DIST 22/11/2024 To 23/11/2024 Avg. Ambient Temperature (°C) Avg. Ambient Temperature (°C) Work Order 4700126557/932 Date:- 29/05/2024 25 1 MONITORING RESULT Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) MAX (10 PM to Avg. dB(A)) DCATION MAX MIN Avg. dB(A) MAX Leq MAX Leq DCATION MAX MIN Avg. dB(A) MAX Leq MAX Leq MAX State Gaharjuri School 61.7 58.2 60.29 54.7 44.5 School 59.8 52.7 57.56 43.8 35.4 School 60.8 50.3 58.16 48.9 40.3	DIST DHANBAD 22/11/2024 To 23/11/2024 Avg. Ambient Temperature (°C) Average Humidity (%) Work Order 4700126557/932 Date:- 29/05/2024 25 52 MONITORING RESULTS Place of Monitoring Day Time (6 AM to 10 PM) Avg. dB(A) Night Time (10 PM to 6 AM) Avg. dB(A) DCATION LEASE AREA MAX MIN AVG. dB(A) Leq MAX MIN AVERAGE dB(A) Leq OCATION LEASE AREA 64.8 50.4 61.94 49.6 43.8 47.6 Saharjuri School 61.7 58.2 60.29 54.7 44.5 52.09 Cchar High School 59.8 52.7 57.56 43.8 35.4 41.38 Railway Colony, 60.8 50.3 58.16 48.9 40.3 46.45	22/11/2024 To 23/11/2024 Ambient Temperature (%) Humidity (%) Condition Work Order 4700126557/932 Date:- 29/05/2024 25 52 Clear MONITORING RESULTS Noise le standard) fo as per CPCE (Regulation (6 AM to 10 PM) Avg. dB(A) MAX MIN Avg. dB(A) MAX MIN Avg. dB(A) Avg. dB(A) Max MIN Avg. dB(A) Avg. dB(A) Max MIN Avg. dB(A) Avg. dB(A)

ISO/II	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					Piot No I-B-17 (P) Sindri, Industrial Area, P.O Domgarh, Dist - Dhanbad Jharkhand - 828107 Email ID: sindriadit@gmail.com Website: additmdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512		
Ref. No.: -	ARDS/24-25/MINER./	1			Date: 30/1	1/2024		
	TEST REPOR			OMPOS	SITION			
	2	OF PARTICUL	ATE MATTE	R				
8 · · · · · · · · · · · · · · · · · · ·	rk Order Ref. NO.	(SAND LE DIST DI	EEL COLLIEF EASE AREA, HANBAD (JH 57/932 Date:- 2	BHOJUD	ND)			
	te of Sample Collection		To 27/11/202	4				
		: 25/11/2024	To 27/11/202		Compositi	• on (%)		
• Dat	te of Testing	: 25/11/2024	To 27/11/202		Compositi Al ₂ O ₃	• 0n (%) CaO		
• Dat	te of Testing	: 25/11/2024 <u>TEST RI</u>	To 27/11/202 ESULTS Miner	alogical (
• Dat	Particulars	: 25/11/2024 <u>TEST RI</u>	ESULTS Miner SiO ₂	alogical (FeO	Al ₂ O ₃	CaO		
Dat	Particulars	: 25/11/2024 <u>TEST RI</u>	ESULTS Miner SiO ₂ 1.46 1.37	alogical (FeO 0.05 0.04 Tec	Al ₂ O ₃ 0.18 0.16	CaO 1.92 1.84		

A R D		NABL A	Laborato	D D D D D D D D D	ia)	Plot No I-8-17 (P) Sindri, Industrial Area, P.O Domgarh, Dist - Dhanba Jharkhand - 828107 Email ID: sindriaditi@gmail.co Website: aditimdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 094315
R	ef. No.: - ARDS/24-25/S	W/1				Date: 30/11/2024
	I	EST REPO	RT OF S	URFACE	WATER	
	 Name of the indus Work Order Ref. 		SAND LEA	ANBAD (JH)
	 Sample Code Date of Sample Code Date of Testing 	:	1. Gov 2. Gov 3. Izri 4. Izri 23/11/2	wai River (l wai River (l River (Up S River (Dn.	Jp Stream) Dn. Stream) Stream) Stream)	· ·
	(5)			C Turbidi		
	Test	:	pH, TL	5, Turbiai	ty, DO, BOL	0, C I, F, SO₄
	• Test	:	PH, TL	And the set of the second	ty, DO, BOL	0, C I, F, SO₄
1.12	PARAMETERS	:	TEST RE	And the set of the second	ty, DO, BOL	Test
1.		Gowai River (Up Stream)	TEST RE VA Gowai River (Dn.	SULT	Izri River (Dn. Stream)	
1.12	PARAMETERS	River (Up	TEST RE VA Gowai River	SULT LUE Izri River (Up	Izri River (Dn.	Test
No.	PARAMETERS OF TEST pH Total Dissolved	River (Up Stream)	TEST RE VA Gowai River (Dn. Stream)	SULT LUE Izri River (Up Stream)	Izri River (Dn. Stream)	Test Method
No.	PARAMETERS OF TEST	River (Up Stream) 8.0	TEST RE VA Gowai River (Dn. Stream) 7.9	SULT LUE Izri River (Up Stream) 7.8	Izri River (Dn. Stream) 7.9	Test Method IS-3025 (P-11): 1983
No. 1. 2.	PARAMETERS OF TEST pH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen	River (Up Stream) 8.0 295	TEST RE VA Gowai River (Dn. Stream) 7.9 206	SULT LUE Izri River (Up Stream) 7.8 300	Izri River (Dn. Stream) 7.9 304	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984
No. 1. 2. 3.	PARAMETERS OF TEST pH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen	River (Up Stream) 8.0 295 1.6	TEST RE VA Gowai River (Dn. Stream) 7.9 206 1.5	SULT LUE Izri River (Up Stream) 7.8 300 2.6	Izri River (Dn. Stream) 7.9 304 3.6	Test Method IS-3025 (P-11): 1983 IS-3025 (P-16): 1984 IS-3025 (P-10):1984
2. 3. 4.	PARAMETERS OF TEST PH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l	River (Up Stream) 8.0 295 1.6 5.1	TEST RE VA Gowai River (Dn. Stream) 7.9 206 1.5 5.3	SULT LUE Izri River (Up Stream) 7.8 300 2.6 5.4	Izri River (Dn. Stream) 7.9 304 3.6 4.6	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. 5.	PARAMETERS OF TEST pH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l	River (Up Stream) 8.0 295 1.6 5.1 1.2	TEST RE VA Gowai River (Dn. Stream) 7.9 206 1.5 5.3 1.9	SULT LUE Izri River (Up Stream) 7.8 300 2.6 5.4 0.8	Izri River (Dn. Stream) 7.9 304 3.6 4.6 2.0	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.	PARAMETERS OF TEST PH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l Chloride as Cl, mg/l	River (Up Stream) 8.0 295 1.6 5.1 1.2 21.33	TEST RE VA Gowai River (Dn. Stream) 7.9 206 1.5 5.3 1.9 325	SULT LUE Izri River (Up Stream) 7.8 300 2.6 5.4 0.8 25.21	Izri River (Dn. Stream) 7.9 304 3.6 4.6 2.0 23.27	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-32):1988
No. 1. 2. 3. 4. 5. 6. 7.	PARAMETERS OF TEST PH Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l Chloride as Cl, mg/l Fluoride as F, mg/l Sulphate as SO4,	River (Up Stream) 8.0 295 1.6 5.1 1.2 21.33 0.08 32.5	TEST RE VA Gowai River (Dn. Stream) 7.9 206 1.5 5.3 1.9 325 0.06	SULT LUE Izri River (Up Stream) 7.8 300 2.6 5.4 0.8 25.21 0.04	Izri River (Dn. Stream) 7.9 304 3.6 4.6 2.0 23.27 0.05 38.5 Techn	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 IS-3025 (P-60):2008

Ref. No.: - ARDS/24-25/AAQ/1 TEST REPORT OF AMBIENT • Name of the industry : TATA STEEL JHA TATA STEEL COL (SAND LEASE AF DIST DHANBA • Work Order Ref. NO.: : 4700126557/932 D • Date of Sample Collection : 17/02/2025 To 18/02 • Date of Testing : 19/02/2025 To 22/02	ARIA DIVISION LLIERY REA, BHOJUDIH) D (JHARKHAND) Pate:- 29/05/2024
 Name of the industry TATA STEEL JHA TATA STEEL CON (SAND LEASE AF DIST DHANBA Work Order Ref. NO.: tate of Sample Collection 17/02/2025 To 18/02 	ARIA DIVISION LLIERY REA, BHOJUDIH) D (JHARKHAND) Pate:- 29/05/2024
 TATA STEEL COI (SAND LEASE AF DIST DHANBA Work Order Ref. NO.: : 4700126557/932 D Date of Sample Collection : 17/02/2025 To 18/02 	LLIERY REA, BHOJUDIH) D (JHARKHAND) Pate:- 29/05/2024
	2/2025
 Date of Testing : 19/02/2025 To 22/02 	
	2/2025
Test Procedure : As per IS-5182	
TEST RESULTS	
LOCATION - ICCHAR HIGH	I SCHOOL
Avg. Ambient Temperature 30°C	Avg. Humidity 21%
SI No. Particulars Value	CPCB STANDARD
1. Particulate Matter (PM10), µg/m3 70.27	100 µg/m ³
2. Particulate Matter (PM2.5), µg/m ³ 41.46	60 µg/m ³
3. SO ₂ ,µg/m ³ 17.87	80 µg/m ³ .
4. NO ₂ , μg/m ³ 26.37	80 µg/m ³
5. Ozone, μg/m ³ 16.26	180 µg/m ³
6. NH ₃ , μg/m ³ 18.67	400 µg/m ³
7. CO, mg/m ³ 0.75	4 mg/m ³
8. Pb, µg/m ³ BDL	1 µg/m ³
9. As, ng/m ³ BDL	6 ng/m ³
10. Ni, ng/m ³ BDL	20 ng/m ³
11. Benzene, µg/m ³ BDL	5 µg/m ³
12. Benzoapyrene ng/m ³ BDL	1 ng/m ³



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.

RDS/24-25/ AAQ/3		Mobile: 09	sindriaditi@gmail.com iditimdservices.com 26-2952377 (O). -2952377 471358492, 094315126
		Date: 23/0	2/2025
TEST REPORT OF A	MBIENT AI	RQUALITY	
TATA ST	TEEL COLLI	ERY	
of Testing : 19/02/202 Procedure : As per IS-	25 To 22/02/2 5182		
LOCATION - SA	AHARJURI S	CHOOL	
Avg. Ambient Temperature	30°C	Avg. Humidity	21%
Particulars	Value	CPCB STAND	ARD
	and the second second		1120/2011
Particulate Matter (PM ₁₀), µg/m ³	59.65	100 µg/m ³	
Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³	59.65 35.82	100 µg/m ³ 60 µg/m ³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³		60 µg/m³ 80 µg/m³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³	35.82 14.71 25.61	80 hð\w ₃ 80 hð\w ₃ 80 hð\w ₃	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³	35.82 14.71 25.61 17.29	60 µg/m ³ 80 µg/m ³ 80 µg/m ³ 180 µg/m ³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³	35.82 14.71 25.61 17.29 14.14	60 µg/m ³ 80 µg/m ³ 80 µg/m ³ 180 µg/m ³ 400 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	35.82 14.71 25.61 17.29 14.14 0.59	60 μg/m ³ 80 μg/m ³ 80 μg/m ³ 180 μg/m ³ 400 μg/m ³ 4 mg/m ³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³	35.82 14.71 25.61 17.29 14.14 0.59 BDL	60 μg/m ³ 80 μg/m ³ 80 μg/m ³ 180 μg/m ³ 400 μg/m ³ 4 mg/m ³ 1 μg/m ³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³	35.82 14.71 25.61 17.29 14.14 0.59 BDL BDL	60 μg/m ³ 80 μg/m ³ 80 μg/m ³ 180 μg/m ³ 400 μg/m ³ 4 mg/m ³ 1 μg/m ³ 6 ng/m ³	
Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ <i>Ozone</i> , µg/m ³ NH ₃ , µg/m ³ CO, mg/m ³ Pb, µg/m ³	35.82 14.71 25.61 17.29 14.14 0.59 BDL	60 μg/m ³ 80 μg/m ³ 80 μg/m ³ 180 μg/m ³ 400 μg/m ³ 4 mg/m ³ 1 μg/m ³	
	TATA S (SAND L DIST E Order Ref. NO. : 47001265 of Sample Collection : 17/02/202 of Testing : 19/02/202 Procedure : As per IS- <u>TEST R</u> LOCATION – SA Avg. Ambient Temperature Particulars	TATA STEEL COLLI (SAND LEASE AREA DIST DHANBAD (J order Ref. NO. : 4700126557/932 Date of Sample Collection : 17/02/2025 To 18/02/2 of Testing : 19/02/2025 To 22/02/2 Procedure : As per IS-5182 <u>TEST RESULTS</u> LOCATION – SAHARJURI SC Avg. Ambient Temperature 30°C	TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST DHANBAD (JHARKHAND) Order Ref. NO. : 4700126557/932 Date:- 29/05/2024 of Sample Collection : 17/02/2025 To 18/02/2025 of Testing : 19/02/2025 To 22/02/2025 Procedure : As per IS-5182 IEST RESULTS LOCATION – SAHARJURI SCHOOL Avg. Ambient Temperature 30°C Avg. Humidity

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.

A R D	S	ADITI R&D SE Testing Laborate NABL ACCREDITE (A Constituent Board of Quality C 17025:2017, ISO 9001:2015,ISO (OH	O ry ED Council of India	P.O Dor Jharkhan Email ID: Website: a) Phone: 0 018 Certified Fax: 0320	- I-B-17 (P) dustrial Area, mgarh, Dist Dhanba ud - 828107 sindriadti/@gmail.co aditimdservices.com (326-2952377 (O), 6-2952377 19471358492, 094315
	Ref. No.:	- ARDS/24-25/ AAQ/4		Date: 23/	02/2025
		TEST REPORT OF A		RQUALITY	
	• Na	TATA S	TEEL COLL	IA DIVISION IERY A, BHOJUDIH)	
		DIST	DHANBAD (JHARKHAND)	
	• Wo	ork Order Ref. NO.: : 4700126	557/932 Date	e:- 29/05/2024	
	• Da	te of Sample Collection : 17/02/20	25 To 18/02/2	025	
	• Da	te of Testing : 19/02/20	25 To 22/02/2	2025	
	• Te	st Procedure : As per l	IS-5182		
		TEST	RESULTS		
			AY COLONY	, BHOJUDIH	
	-			, BHOJUDIH Avg. Humidity	21%
	SI No.	LOCATION - RAILW	AY COLONY		1000
	SI No. 1.	LOCATION – RAILW Avg. Ambient Temperature	AY COLONY	Avg. Humidity	ARD
		LOCATION – RAILW Avg. Ambient Temperature Particulars	AY COLONY 30°C Value	Avg. Humidity CPCB STAND	ARD
	1.	LOCATION – RAILW Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³	AY COLONY 30°C Value 69.54	Avg. Humidity CPCB STAND 100 µg/m ³	ARD
	1. 2. 3. 4.	LOCATION – RAILW 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	AY COLONY 30°C Value 69.54 40.61	Avg. Humidity CPCB STAND 100 µg/m ³ 60 µg/m ³	ARD
	1. 2. 3. 4. 5.	LOCATION – RAILW 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	AY COLONY 30°C Value 69.54 40.61 17.65	Avg. Humidity CPCB STAND 100 µg/m ³ 60 µg/m ³ 80 µg/m ³	ARD
	1. 2. 3. 4. 5. 6.	LOCATION – RAILW 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 NH ₃ , µg/m ³	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61	Avg. Humidity CPCB STAND. 100 μg/m ³ 60 μg/m ³ 80 μg/m ³ 80 μg/m ³	ARD
	1. 2. 3. 4. 5. 6. 7.	LOCATION – RAILW Avg. Ambient Temperature Particulars Particulate Matter (PM10), µg/m ³ Particulate Matter (PM2.5), 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	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74	Avg. Humidity CPCB STAND 100 μg/m ³ 60 μg/m ³ 80 μg/m ³ 180 μg/m ³	ARD
	1. 2. 3. 4. 5. 6. 7. 8.	LOCATION – RAILW Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , 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	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74 BDL	Avg. Humidity CPCB STAND, 100 μg/m³ 60 μg/m³ 80 μg/m³ 80 μg/m³ 400 μg/m³	ARD
	1. 2. 3. 4. 5. 6. 7. 8. 9.	LOCATION – RAILW 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 As, ng/m ³	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74 BDL BDL	Avg. Humidity CPCB STAND. 100 μg/m³ 60 μg/m³ 80 μg/m³ 180 μg/m³ 400 μg/m³ 4 mg/m³	ARD
	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	LOCATION – RAILW 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 Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74 BDL BDL BDL	Avg. Humidity CPCB STAND. 100 µg/m ³ 60 µg/m ³ 80 µg/m ³ 80 µg/m ³ 180 µg/m ³ 400 µg/m ³ 400 µg/m ³ 6 ng/m ³ 20 ng/m ³	ARD
	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	LOCATION – RAILW Avg. Ambient Temperature Particulars Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ SO ₂ , µg/m ³ SO ₂ , µg/m ³ NO ₂ , µg/m ³ Ozone, µg/m ³ Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³ Benzene, µg/m ³	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74 BDL BDL BDL BDL	Avg. Humidity CPCB STAND. 100 µg/m ³ 60 µg/m ³ 80 µg/m ³ 180 µg/m ³ 180 µg/m ³ 400 µg/m ³ 400 µg/m ³ 400 µg/m ³ 5 µg/m ³	ARD
	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	LOCATION – RAILW 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 Ozone, µg/m ³ CO, mg/m ³ Pb, µg/m ³ As, ng/m ³ Ni, ng/m ³	AY COLONY 30°C Value 69.54 40.61 17.65 27.32 19.77 15.61 0.74 BDL BDL BDL	Avg. Humidity CPCB STAND. 100 µg/m ³ 60 µg/m ³ 80 µg/m ³ 80 µg/m ³ 180 µg/m ³ 400 µg/m ³ 400 µg/m ³ 6 ng/m ³ 20 ng/m ³	ARD

AD	Ref. N DS/24-25/ NOIS	o. & Date		12025				and the state of t	ARIA DIVISI			
AR	D3/24-25/ NOI3	E/I Dat	e. 19/02	2025	TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY							
	Date of Monitoring				(SAND LEASE AREA, BHOJUDIH)							
										wall		
-		-	-	-	DIST DHANBA Avg. Average			Weather Status of the				
	17/02/2025	To 18/0	2/2025	1		mbient nperatu (°C)	H H	lumidity (%)	Condition	plant		
	Work Order Date:- :	4700126 29/05/202				30		21	Clear	Not in operational		
		-		MON	ITO	RING	RESUL	TS				
SI. No	Place of Monitoring	(Day Ti 6 AM to 1 Avg. dl	0 PM)			Night 1 10 PM to Avg. d	6 AM)	as per CPCB (Regulation (Amendmer notified vid Dt. 22	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		
SAM	LOCATION ND LEASE AREA	MAX	MIN	AVG. dE	- AL (A)	MAX	MIN	AVERAGE dB(A) Leq	Residential Area	 Residential Area 		
1.	Lagla Gram Panchayat	61.56	47.88	58.73	3	47.12	41.61	45.26				
2.	Saharjuri School	58.61	55.29	57.20	6	46.50	33.63	43.71	65.00	55.00		
3.	lcchar High School	56.81	47.78	54.3	1	41.61	38.28	40.26	-	× 1		
4.	Railway Colony, Bhojudih	58.71	51.96	56.53	3	51.96	42.27	49.39				



Statements :

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

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- 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.

Ambient Air Qual	ity and Ground	Water Quality	Report (Period –	October'24 to March'2	5)
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A R D			NABL A	Laborat CCREDITI	ED Council of Is	ndia)	Sindri, Ir P.O Do Jharkha Email ID Website Phone:	- I-B-17 (P) dustrial Area, mgarh, Dist Dhanbad nd - 828107 : sindriadti@gmail.com : aditimdservices.com 0326-2952377 (O), 26-2952377 09471358492, 09431512
- h	Re	f. No.: - ARDS/24-25/	SW/1				Da	te: 25/02/2025
		1	EST RE	PORTO	F SURFA	CE WA	TER	
		 Work Order Re Sample Code Date of Sample Date of Testing Test 	Collection	(SAND DIST : 470012 : 1. 2. 3. 4. : 17 : 19	DHANBA 26557/932 Gowai Riv Gowai Riv Izri River /02/2025 /02/2025	REA, BHO D (JHARK Date:- 29 ver (Up Str ver (Dn. St (Up Stream (Dn. Stream (Dn. Stream To 24/02/2	HAND) /05/2024 ream) ream) n) m)	F, SO₄
				TEST	RESULT			
	ši. Io.	PARAMETERS OF TEST	Gowai River (Up Stream)	VA Gowai River (Dn. Stream)	LUE Izri River (Up Stream)	Izri River (Dn. Stream)	Limit as per IS 2296 Class - C	Test Method
N				7.8	7.6	7.5	6.5 - 8.5	IS-3025 (P-11): 1983
	1.	рН	7.6	1.0	1.0			
	1. 2.	Total Dissolved	7.6	312	395	402	1500 (Max.)	IS-3025 (P-16): 1984
	<u> </u>		075			402	1500 (Max.)	120100
	2.	Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen	322	312	395	0.535	1500 (Max.) - 4.0 (Min)	IS-3025 (P-10):1984
	2. 3.	Total Dissolved Solids, mg/I Turbidity, NTU	322 1	312 1	395 1 4.9 1.8	1 4.8 1.9	4.0 (Min) 3.0	IS-3025 (P-10):1984 IS-3025 (P-38):1989 IS-3025 (P-44):1994
	2. 3. 4.	Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen	322 1 5.2	312 1 5.2	395 1 4.9 1.8 83.3	1 4.8 1.9 81.4	4.0 (Min) 3.0 600 (Max.)	IS-3025 (P-10):1984 IS-3025 (P-38):1989 IS-3025 (P-44):1994 IS-3025 (P-32):1988
	2. 3. 4. 5.	Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l	322 1 5.2 1.4	312 1 5.2 1.8	395 1 4.9 1.8	1 4.8 1.9	4.0 (Min) 3.0	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 IS-3025 (P-60):2008
	2. 3. 4. 5. 6.	Total Dissolved Solids, mg/l Turbidity, NTU Dissolved Oxygen ,mg/l Bio chemical Oxygen Demand, mg/l Chloride as Cl, mg/l	322 1 5.2 1.4 60.1	312 1 5.2 1.8 50.4	395 1 4.9 1.8 83.3	1 4.8 1.9 81.4	4.0 (Min) 3.0 600 (Max.)	IS-3025 (P-10):1984 IS-3025 (P-38):1989 IS-3025 (P-44):1994 IS-3025 (P-32):1988

Statements :

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Annexure- I

Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

Ambient Air Quality Analysis Report

Period- October'24 to December'24

Name of Industry	: Lagla Mahal Sa	nd Mining Project	No. of sampling points	: 4			
Sampling Lagation		Date of Sampling/ Weather Condition					
Sampling Lo	Sampling Location		November'24	December'24			
Mahal School Near Izr	Mahal School Near Izri River		28.11.2024/ Clear	18.12.2024/ Clear			
Lagla Gram Panchayat	Lagla Gram Panchayat		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	8		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		71.3	32.7	15.2	22.7
	Average		66.68	35.98	16.35	20.02

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Area Manager (Environment)

Annexure- I

Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

Ambient Air Quality Analysis Report

Period- January'25 to March'25

Name of Industry : Lagla Mahal Sa	nd Mining Project	No. of sampling	points : 4			
Compliant 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/ 86°21'59.7" E	24.01.2025	64.3	33.4	16.9	17.8	
School		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/ 86°20'58.9" E	24.01.2025	68.7	34.8	15.7	19.3	
School		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			69.8	38.5	17.5	21.4	
Average			65.49	34.68	16.18	18.81	

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Area Manager (Environment)

Ground Water Quality Analysis

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

S.No	Date	Location	Time	Sample Parameter				
				Depth in meter (m)	рН	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

					Sample Parameter			
S.No.	Date	Location	Time	Depth in meter (m)	рН	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		

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Area Manager (Environment)

S.No.	Location	Sampling	Sampling	Тетр	рН	TSS	BOD	Oil & Grease
	Location	Date Time		< 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

Surface Water Quality Analysis

Rodsed

Area Manager (Environment)