

Ref. No. - TSG/EC/SBWM-1/2024-25/May-25/02

Date - 16/05/2025

To,

Deputy Director General of Forests (C) Ministry of Environment, Forest and Climate Change Integrated Regional Office, 2nd Floor, Headquarter- Jharkhand State Housing Board Harmu Chowk, Ranchi, Jharkhand – 834002

Subject: Half yearly environmental clearance compliance report of Straight Bar & Wire Mill Division-1 of Tata Steel Limited for the period from October 2024 to March 2025

Reference:

Environment clearance vide letter no. EC/SEIAA/2015-16/872/2015/262 dt. 05.11.2018

Sir,

We are herewith submitting half yearly compliance report of Straight Bar & Wire Mill Division-1 of Tata Steel Limited at Adityapur Industrial Area, Village: Bara Gamharia, Tehsil: Gamharia, District: Saraikela-Kharsawan. The compliance report is for the period from October 2024 to March 2025,

This is for your kind information and necessary records please.

Thanking you,

Yours sincerely For Tata Steel Limited, Gamharia Straight Bar & Wire Mill Division-1

Kyan

(Ravi Ranjan Prasoon) Head -Environment TSG

Cc:

- 1. The Zonal Head, CPCB, Kolkata
- 2. The Member Secretary, JSPCB
- 3. The Regional Officer, JSPCB

TATA STEEL LIMITED

Tata Steel Gamharia Seraikela Kharsawan Jamshedpur 832 108 India Tel 065771 02349 Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 6665 8282 Website www.tatasteel.com Corporate Identity Number L27100MH1907PLC000260

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COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

S1 No	Conditions	Compliance status
A. Spe	cific conditions	
01	 I. This Environmental Clearance is valid subject to the following condition below-That this project has-A. Obtained all legal rights to operate at concerned place. B. Complied with all existing concerned laws of the land. C. Complied with the decisions of SEIAA on the issue of environmental clearance till date. 	Agreed and being followed.
	tutory compliance	
02	I. The project proponent shall obtain forest clearance under the provisions of Forest (conservation) Act. 1986, In case of the diversion of forest land for non- forest purpose involved in the project.	Complied. Not applicable since it falls under approved industrial area.
03	II. The project proponent shall obtain clearance from the national board for wildlife, if applicable.	Complied. Not applicable since it falls under approved industrial area.
04	III. The project proponent shall prepare a site- specific conservation plan & wildlife Management plan and approved by the chief wildlife warden. The recommendations of the approved site-specific conservation plan/ wildlife management plan shall be implemented in consultation with the state forest department. The implementation report shall be furnished along with the six- monthly compliance report. (in case of the presence of schedule-I species in the study area)	Complied. Not applicable since it falls under approved industrial area.
05	IV. The project proponent shall obtain Consent to Establish / Operate under the provision of air (prevention & control of pollution) Act. 1981 and the water (prevention & control of pollution) Act. 1974 from the concerned state pollution control Board/committee.	Complied. The Consent to Establish and Consent to Operate were obtained from Jharkhand State Pollution Control Board vide letter No. JSPCB/HO/RNC/CTE- 13774242/2022/465 dt. 24/10/2022 and JSPCB/HO/RNC/CTO- 17527598/2024/624 dt. 05/04/2024 CTE and CTO copies is attached as Annexure - 6

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06	V. The project proponent shall obtain the necessary permission from the Central Ground water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	Complied. Not applicable as because no ground water is drawn.
07	VI. The project proponent shall obtain authorization under the Hazardous and other waste management rules, 2016 as amended from time to time.	Complied. Hazardous waste authorization for the existing facility was obtained vide reference no. JSPCB/HO/RNC/HWM- 18666808/2024/47 Dt. 30/05/2024 Hazardous Waste Authorization copy is attached as Annexure - 7
III. Air	quality monitoring and preservation	
08	I. The project proponent shall install 24x7 continuous emission monitoring system at process stack to monitor stack emission with respect to standards prescribed in environment (Protection) Rules 1986 vide G.S.R 277(E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. The unit doesn't have an induction furnace of Electric Arc Furnace and is only a stand-alone mill and doesn't come under the purview of notification G.S.R 277 (E) dt.31.03.2012 (Integrated Iron and Steel Plant Standards) and S.O.3305 (E) dt.07.12.2015 (Thermal Power Plant standards) mentioned in the condition.
09	II. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Fugitive emission is monitored on monthly basis through NABL / JSPCB accredited laboratory. Work-Zone Air Quality Monitoring Report is attached as Annexure - 5
10	III. The project proponent shall install system carryout continuous ambient Air Quality monitoring for common criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOX in reference to SO2 and NOX emission) within and outside the plant area (at last at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind	 Manual Ambient Air Quality Monitoring is undertaken by NABL / JSPCB accredited laboratory. Ambient Air Quality Monitoring Report attached as Annexure - 1

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	directions. (case to case basis small plants: Manual; Large plants: Continuous)	
11	IV. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emission to Regional Office of MoEFCC, Zonal office of CPCB and regional office of SPCB along with six monthly monitoring report	 Complied. Monthly monitoring is done regularly through NABL accredited laboratory. And report is submitted to board (JSPCB, MoEFCC) along with six monthly monitoring report. Stack Emission Monitoring Report attached as Annexure - 2
12	V. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	Complied. It is a small Reheating Furnace, there is not require any Air Pollution Control Device, however water sprinklers have been installed to control the fugitive emission during vehicle movement
13	VI. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied. Not applicable as it is a finishing mill with no significant pollution potential.
14	VII. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied. Adequate steps are taken to maintain the area clean and tidy.
15	VIII. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting agglomeration.	Complied. Not applicable since it is only a small finishing mill.
16	IX. The project proponent shall use leak proof trucks/ dumpers carrying coal and other raw materials and cover them with tarpaulin.	Complied. Not applicable since it is only a small finishing mill. Raw materials such as coal will not be used.
17	X. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	Complied. Not applicable since it is only a small finishing mill.
18	XI. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Complied. Not applicable since it is only a small finishing mill.
19	XII. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels houses, Oil Cellars.	Complied. Noted and all required safeguards will be incorporated in new construction.
IV. Wa	ter quality monitoring and preservation	

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20	I. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (protection) Rules 1986 vide G.S.R 277(E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online service and calibrate these system from time to time according to equipment supplier specification through labs recognized under environment (Protection) Act.1986 or NABL accredited laboratories. (case to case basis Small plants: Manual Large Plants: Continuous)	Being Complied. The wastewater generated is under closed loop water circuit and no effluent is discharged.
21	II. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act. 1986 and NABL Accredited laboratories.	 Complied. Ground Water Quality Monitoring is carried out through NABL / JSPCB accredited laboratory and report submitted. Ground Water Quality Analysis Report attached as annexure - 3
22	III. The project proponent shall submit monthly summary report of continuous effluent monitoring and result of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office along with six- monthly monitoring report.	Complied. It is zero effluent discharge plant and all water will be recycled back in process for cooling. Manual monitoring reports of ground water will be submitted at required frequency as specified in environment clearance.
23	IV. Adhere to Zero liquid Discharge.	Being complied.
24	V. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	
25	VI. The project proponent shall provide the ETP the effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31 st March 2012 (applicable to IF/EAF) as amended from time to time.	Being Complied. The wastewater generated is under closed loop water circuit and no effluent is discharged.
26	VII. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off and the event of heavy rains and to check the water pollution due to surface run off	Complied. This is not applicable, there is no raw material stock piles applicable because this is just a small finishing mill.

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27	VIII. The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied. Rainwater harvesting structures are created within the premises to harvest rainwater. Photographs of RH and Green Belt development is attached as Annexure - 4
28	IX. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Being Complied. Noted and effort shall be made to minimize total water consumption.
V. Nois	se monitoring and prevention	
29	I. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six- monthly compliance report.	Complied. Ambient noise level is maintained within the norms specified under the Environment Protection Act, 1986. Ambient Noise monitoring report attached as Annexure – 1A
30	II. The ambient noise levels should conform to the standards prescribed under E(P)A Rules 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.	Complied. Ambient noise level is maintained within the norms specified under the Environment Protection Act, 1986. Ambient Noise monitoring report attached as Annexure – 1A
VI. Ene	ergy Conservation Measures	
31	I. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Complied. Recuperator is already installed for recovery of heat from waste gases.
32	II. Practice hot charging of slabs and billets/blooms as far as possible.	Complied. It is a stand-alone unit with no upstream facility available for hot charging.
33	III. Ensure installation of regenerative type burners on all reheating furnaces	Complied. High performance dual fuel burners are installed for ideal fuel efficiency.
34	IV. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly.	Complied. Noted, feasibility shall be explored to put the solar light at common area around unit.
35	V. Provide the project proponent for led lights in their offices and residential areas.	Complied
VII. Wa	aste Management	
36	I. Used refractories shall be recycled as far as possible.	Complied. Used refractories are recycled through 3 rd Party vendor on regular basis.

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37	II. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces	Complied. The quantum of metallic waste (mill scale) is very negligible whereby briquetting will not be feasible. However, the collected mill scale, and other waste are reused in the process or disposed of through authorized recyclers.
38	III. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry Regional Office.	Complied. Not applicable. No fly ash will be generated since it is only a small finishing mill.
39	IV. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules, 2016.	Complied. Hazardous Carbonaceous Wastes viz. Waste oil, used Oil & grease etc. are collected and sold to authorized recyclers approved by the JSPCB as per the Hazardous & other waste (Management & Transboundary Movement) Rules, 2016.
40	V. Kitchen waste shall be composted or converted to biogas for further use.(to be decided on case to case basic depending on type and size of plant).	Complied. There is no kitchen facility in the premises.
viii. Gi	reen Belt	
41	I. Green belt shall be developed in an area equal to 33% of the pant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter area cover the entire periphery of the plant.	Complied. The area is planted with over saplings and all open areas are covered with plantation. We have achieved 33% green belt within the plant. A captive nursery is developed at Tata Steel Limited, Gamharia (Main Plant-1) to grow saplings of various species including forest species. Species grown include Gulmohar, Karanj, Chakundi, Acacia siamia and Peltoform. Mature saplings are shifted to the various locations for plantation.
		Photographs of Green Belt development within the plant is attached as Annexure - 4
42	II. The project proponent shall prepare GHG emissions inventory for the plant and shall submit programme for reduction of the same including carbon sequestration including plantation.	Being Complied. Our goal is to ensure sustainable and environmentally responsible operations.
IX. Pu	blic hearing and human health issues	

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43	I. Emergency Preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. Emergency Preparedness plan (ERP) and Hazard identification and Risk Assessment (HIRA) documents are prepared for the unit.
44	II. The project proponent shall carry out heat stress analysis for the workman who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied. Appropriate PPEs are provided for protection against heat. Heat stress analysis is done as part of Process safety management.
45	III. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such a fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. No construction work is envisaged.
X. Cor	porate Environment Responsibility	
46	I. The project proponent shall comply with the provisions contained in this Ministry's OM vied F.No. 22-65/2017-IA.III dated 1st may 2018, as applicable, regarding Corporate Environment Responsibility.	Being complied. SBWM-I, Gamharia, a unit of Tata Steel Ltd. has set up guidelines for CSR activities with budgetary support from group units. Environment protection measures stated in EIA/EMP are systematically implemented. Company through its dedicated CSR team undertakes multiple socio-economic initiatives in surrounding panchayats. The CSR department follows a logical process to extend the required and most needed benefits to its local community through its short-term and long-term plans.
		Key CSR activities in Tata Steel Limited, Gamharia are attached as Annexure - 9

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47	II. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy prescribes for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/forest/ wildlife/ norms/ conditions. The company shall have defined	Complied,theCompanyhasawell-establishedenvironmentalpolicydulyapproved by CEO & MD.EnvironmentPolicyisattachedasAnnexure - 8
	system of reporting infringements/deviation/violation of the environmental/ forest/ wildlife norms/ condition and/ or shareholders/ stake holder. The copy of the board resolution in this regards shall be submitted to the MoEF & CC as a part of six- monthly report.	
48	III. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. A centralized Environment Cell, staffed with qualified personnel, is established at Tata Steel Long Products Limited's main plant to ensure legal compliance, and maintain monitoring records of SBWM-I
49	IV. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	Being complied. The EMP has been implemented as per the approved plan. Regular monitoring is conducted to ensure compliance with environmental conditions.
50	V. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied. The company shall conduct an annual self-audit of its environmental practices. The self-audit shall cover all relevant areas and activities and shall be carried out by Environment Experts of the company.
51	VI. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.	Complied. Recommendations made in Corporate Responsibility for Environment Conservation (CREP) is regularly reviewed and implemented.
		CREP Compliance Report is attached as Annexure - 10

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52	VII. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Health check-up for workers is done at periodic intervals and records maintained as per the Factories Act.
XI. Mi	scellaneous	
53	I. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied.
54	II. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies. Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied.
55	III. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	 Complied. Status of compliance of the EC conditions along with monitoring data is being uploaded on the website of the company. EC Compliance Report uploaded on the website is attached as Annexures - 11
56	IV. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied. Criteria pollutants level are displayed at Plant Gate and EC Compliance report, along with monitoring report, is uploaded on the company's website.
57	V. The project proponent shall submit six- monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of the Environment, Forest and Climate Change at environment clearance portal.	Complied. Compliance and monitoring reports are submitted in PARIVESH portal once in every six months as stipulated. Acknowledgement copy is attached as Annexure - 12

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58	VI. The project proponent shall submit the environment statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied. Environmental Statement for each financial year is submitted regularly to JSPCB before 30th of September every year. Last Environment Statement (Refer. No. TSG/EMD/ES/FY'24 dated 19/09/24) is submitted on 24/09/2024. Last Environment Statement copy is attached as Annexure - 13
59	VII. The project proponent shall inform the Regional Office as well as the maturity, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied.
60	VIII. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Being complied.
61	IX. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Experts Appraisal Committee.	Being complied.
62	X. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF & CC).	Complied. No expansion or modification in the plant shall be carried out without prior approval of MoEFCC.
63	XI. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
64	XII. The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Agreed
65	XIII. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
66	XIV. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed

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67	XV. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Courts of Law relating to the subject matter.	Agreed
68	XVI. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed
B. Oth	er conditions :	
69	1. The authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to satisfaction of Authority or for that matter for any other administrative reason.	Agreed
70	2. In view of MoEF & CC O.M. No. 22- 27/2015-IA-III, dated- 12.04.2016. The Environmental Clearance accorded shall be valid for a period of seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.	Agreed
71	3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA assess the adequacy of the conditions imposed and to incorporate any new conditions if required	Agreed

				Sampli	ng on		Parameters										
SN.	Sampling location	Month	Report No.	Start	End	SO2 (ug/m3)	NO2 (ug/m3)	PM10 (ug/m3)	PM2.5 (ug/m3)	CO (ug/m3)	Ozone (ug/m3)	Lead (ug/m3)	Ammonia (ug/m3)	Benzene (ug/m3)	Benzo(a)pyrene (ng/m3)	Arsenic (ng/m3)	Nickel (ng/m3)
1			RN-240715001A05	07-01-2025	08-01-2025	21.0	42.3	85.7	44.6	BDL(MDL 1.8)	20.9	0.3	32.4	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
2	SBWM Near QA		RN-230714001A10	15-01-2025	16-01-2025	22.7	37.8	89.2	37.3	BDL(MDL 1.8)	23.6	0.3	41.0	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
3	Building.		RN-230714001A19	22-01-2025	23-01-2025	21.1	35.7	84.4	39.5	BDL(MDL 1.8)	18.2	0.4	41.3	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
4		Jan-25	RN-230714001A23	30-01-2025	31-01-2025	19.1	32.5	91.4	42.5	BDL(MDL 1.8)	20.5	0.4	37.2	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
5		ball 20	RN-240715001A06	07-01-2025	08-01-2025	23.6	31.3	86.1	39.0	BDL(MDL 1.8)	24.8	0.4	36.5	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
6	SBWM Unit-2 (Near		RN-230714001A11	15-01-2025	16-01-2025	21.7	34.9	85.7	44.2	BDL(MDL 1.8)	21.4	0.4	40.9	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
111	Main Gate)		RN-230714001A20	22-01-2025	23-01-2025	18.0	29.5	88.7	42.4	BDL(MDL 1.8)	23.9	0.4	37.5	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
112			RN-230714001A24	30-01-2025	31-01-2025	20.0	33.2	89.2	49.4	BDL(MDL 1.8)	27.7	0.5	35.3	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
129			RN-240715001A05	07-02-2025	08-02-2025	21.9	44.7	88.3	46.8	BDL(MDL 1.8)	33.5	0.4	33.5	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
130	SBWM Near QA		RN-230715001A11	14-02-2025	15-02-2025	23.4	41.2	92.3	40.0	BDL(MDL 1.8)	42.4	0.4	42.4	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
131	Building.		RN-230714001A17	21-02-2025	21-02-2025	22.0	38.1	87.0	41.7	BDL(MDL 1.8)	42.4	0.5	42.4	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
132		Feb-25	RN-230714001A23	27-02-2025	28-02-2025	21.8	40.6	90.7	44.0	BDL(MDL 1.8)	38.6	0.5	38.6	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
133		160-23	RN-230715001A06	07-02-2025	08-02-2025	24.5	33.7	88.7	41.2	BDL(MDL 1.8)	37.6	0.5	37.6	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
134	SBWM Unit-2 (Near		RN-230715001A12	14-02-2025	15-02-2025	22.4	38.3	88.8	46.9	BDL(MDL 1.8)	42.3	0.5	42.3	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
135	Main Gate)		RN-230714001A18	21-02-2025	21-02-2025	18.9	31.9	91.3	44.6	BDL(MDL 1.8)	38.6	0.5	38.6	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
136			RN-230714001A24	27-02-2025	28-02-2025	20.7	36.6	90.7	46.0	BDL(MDL 1.8)	36.7	0.6	36.7	BDL (MDL- 0.06)	BDL (MDL0.18)	BDL (MDL-2)	BDL (MDL-4)
153			RN-240715001A05	07.03.2025	08.03.2025	24.6	49.2	80.1	51.6	BDL(MDL-1.8)	23.9	1.0	0.5	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
154	SBWM Near QA		RN-230715001A11	13.03.2025	14.03.2025	26.0	45.9	96.0	42.0	BDL(MDL-1.8)	26.7	0.5	45.1	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
155	Building.		RN-230715001A17	18.03.2025	19.032025	24.7	42.6	78.8	46.5	BDL(MDL-1.8)	21.2	0.6	45.3	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
156		Mar-25	RN-230715001A23	28.03.2025	29.03.2025	24.4	45.3	94.4	46.6	BDL(MDL-1.8)	23.6	0.6	41.3	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
157		iviai-23	RN-240715001A06	07.03.2025	08.03.2025	27.2	38.2	80.5	46.0	BDL(MDL-1.8)	27.8	0.6	40.5	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
158	SBWM Unit-2 (Near		RN-230715001A12	13.03.2025	14.03.2025	25.0	43.0	92.5	49.5	BDL(MDL-1.8)	24.5	0.6	45.0	BDL (MDL-0.06)	BDL MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
159	Main Gate)		RN-230715001A18	18.03.2025	19.03.2025	21.6	36.4	83.1	49.4	BDL(MDL-1.8)	26.9	0.6	41.5	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)
160			RN-230715001A24	28.03.2025	29.03.2025	23.3	41.3	94.4	48.6	BDL(MDL-1.8)	27.6	0.7	39.4	BDL (MDL-0.06)	BDL (MDL-0.18)	BDL (MDL-2)	BDL (MDL-4)

Ambient Air Quality Monitoring Report







Report Issue Sample ID: 2 Challan No., Issued to: N (F G	e Date: 22-0 250120AP02 /P.O. No.: 30	004		5	2 Gro	9 up: At		2 spherio	5 Poll	0 ution	0		0 Sub	0 Gro	0 up: A	0 mbie	0 nt Air	1	3				
Report Issue Sample ID: 2 Challan No., Issued to: N (F G	e Date: 22-0 250120AP02 /P.O. No.: 30	004			Gro	up: At		pherio	Poll	ution			Sub	-Gro	up: A	mbie	nt Air						
Sample ID: 2 Challan No., ssued to: N (F G	250120AP02 /P.O. No.: 30	004														ospheric Pollution Sub-Group: Ambient Air							
Challan No., ssued to: M (F G	/P.O. No.: 3				Report Issue Date: 22-01-2025										Test Report No.: RN-240715001A13								
ssued to: M (F G	//s Tata St	00017	771 4/	Sample ID: 250120AP02004									Sample Description: Ambient Air										
N (F G			Challan No./P.O. No.: 3000173714/J02 Challan No./ P.No. Date: 15-07-2024																				
Issued to: M/s Tata Steel Limited (Formerly Tata Steel Long Products Limited) Gamaharia Phase-V, Adityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108																							
Type of Industry: Iron & Steel Customer Representative: Kishor Pramanik																							
Sample Drav							1.5	Samp	ling [Date:	15-01	-202	25 to	0 16-0	01-20	25							
Protocol: CP	CB Guidelin	e(NAA	QMS	/36/2	012-1	3) & I	SM	ethod	5182	2 Serie	es												
Sampling Location: SBM NEAR QA BUILDING UNIT - 1																							
Field Meteo	rological Inf	ormat	tion	A. Te	emp.(° C): 18	8	R.H.(%): 52 W.C.: Sunny						W.D.: SE to NW									
Sample Reco	eiving Date:	20-01	-2025		Tes	sting S	start	ed: 20	-01-2	2025		Te	estin	g Enc	ded: 2	22-01-	2025						
							Test	t Resu	lts	-													
SI. No.	Paramet	ers			Te	st Met	thod				Jnit		N	lorms	* *			sult					
1. Par	ticulate Matte	r (PM ₁₀)	IS 51	82 Pa	rt 23:2	006	RA 201	7	10			100			89	9.2						
2. Par	ticulate Matte	r (PM _{2.}	5)	I	S 518	2 Part	24: 2	2019			µg/m ³			60				7.3					
3. Sul	phure Dioxide	e (SO ₂)		IS 51	82 Pa	rt 02: 2	2001	RA 20	17		µg/m ³ 80				22.7								
4. Nitr	ogen Dioxide	(NO ₂)		IS 51	82 Pa	rt 06: 2	2006	RA 20	17	μg/m ³ 80						7.8							
5. Am	monia (NH ₃)			I	S 518	2 Part	25: 2	2018		µg/m ³ 400						L.O							
6. Ozo	one (O ₃)			I	S 518	2 Part	09: 1	974			g/m ³			180				3.6					
7. Ars	enic (As)				USEP	A IO 3	.2: 1	999			g/m ³						in the second second	NDL-2)				
8. Lea	ad (Pb)		IS 5182 Part 22:								g/m ³			1.0		0.3							
9. Nic	Nickel (Ni) IS 5182 Part 26:							2020		ng	g/m ³						BDL (M	MDL-4)				
								of Rep															
Env.Conditi	on of Lab.	testi	ing ar	eaas	per IS	5 196:	1960							e Hu	midit	y 65±	5 % ii	n all					
Abbreviatio	and the second	-						t, BDL		and the second second second		on Li	imit										
Norms** is \$	Specified							rds (NA															
Remark Sample Comply with prescribed specification Tested By: Akanksha Sourabh																							

Sample Drawn By: Rahul Singh & Team

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is issued by the Director of the Organization.	recrimical wallager	Director
	- Carlo	

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

tran the online



Test Report

Discipli	ne: Chemical		Group: Atmo	ospheric Pollution Sub-Group: Ambient Air						
Report	Issue Date: 22-02	1-2025		Test Report No.: RN-240715001A13						
Sample	ID: 250120AP02	004		Sample Description: Ambient Air						
Challan No./P.O. No.: 3000173714/J02 Challan No./ P.No. Date: 15-07-2024										
Issued	M/s Tata Sto (Formerly Ta Gamaharia F	ata Steel L Phase-V, A	d ₋ong Products Lir Adityapur Industri , Jharkhand-8321(al Area,						
Type of	f Industry: Iron &	Steel		Customer R	epresent	ative: Kishor Pr	ramanik			
Sample	Drawn by: IEM T	eam		Sampling D	ate: 15-0	1-2025 to 16-02	1-2025			
and the second sec	and the second		5/36/2012-13) & IS N	duran a second a se	and the second s					
			BUILDING UNIT - 1							
Field M	leteorological Inf	ormation	A. Temp.(°C): 18	R.H.(%): 52 W.C.: Sunny W.D.: SE to NW						
Sample	Receiving Date:	20-01-2025	Testing Star	rted: 20-01-2025 Testing Ended: 22-01-2025						
			Te	st Results						
SI. No.	Paramet	ers	Test Metho	d	Unit	Limits	Result			
10.	Benzene (C ₆ H ₆)		IS 5182 Part 11:	2006	µg/m ³		BDL (MDL-0.06)			
11.	Benzo (a) Pyrene Particulate Phase		IS 5182 Part 12:	2004	2		BDL (MDL-0.18)			
12.	Carbon Monoxide	;	IEM/SOP/Air-01	:2022	mg/m ³		BDL(MDL-1.8)			
			End	of Report	•					
Env.Co	ndition of Lab.		ry is maintaining Ter ea as per IS 196:196		'± 2°C and	d Relative Hum	idity 65±5 % in all			
Abbrev	iation	MDL: Min	imum Detection Lim	it, BDL:Below	v Detectio	on Limit				
Norms*	* is Specified	National Ar	nbient Air Quality Stand	lards (NAAQS),	2009.					
Remark N/A.										

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Singh & Team

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is issued by the Director of the Organization.	Technical Manager
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Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Institute for Environmental Management





							Te	est	Rep	ort										
ULR No	.: Т	С	1	5	2	9	2		2	5	0		0	0	0	0	0	0	1	4
Discipli	ne: Chemical				Gr	oup: A	Atmo	osph	eric	Pol	lutio	n		Su	ıb-Gr	oup:	Ambie	ent Air		
Report	Issue Date: 22-01	L-2025	5					Те	st Re	po	rt No	.: R	N-24	0715	5001A	414				
Sample	ID: 250120AP02	005						Sa	mple	e De	escri	ptio	n: Ar	nbie	nt Air	•				
Challan	No./P.O. No.: 30	00017	3714/	/J02				Ch	allar	n No	o./P	.No	. Dat	e: 15	-07-2	024				
Issued	to: M/s Tata Ste (Formerly Ta Gamaharia F Seraikela-Kt	ata Si Phase	teel L e-V, <i>I</i>	_ong Aditya	apur	r Indu	ustri	al A		,										
Type of	Industry: Iron &	Steel						Cu	iston	ner	Rep	rese	ntat	ive: 🕴	(ishoi	^r Pran	nanik			
Sample Drawn by: IEM Team Sampling Date: 15-01-2025 to 16-01-2025																				
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																				
Sampli	ng Location: SBW	M NE	AR M	AIN G	ATE	UNIT-	2													
Field Meteorological Information A. Temp.(°C): 18									R.H.(%): 52 W.C.: Sunny								: SE to	NW		
Sample	Receiving Date:	20-01	-2025	5	Te	esting	Star	rted	: 20-	01-	2025	i		Testi	ng Er	nded:	22-01	-2025		
							Te	st R	esult	s	-									
SI. No.	Paramet	ers			Т	est M	etho	d				Uni			Norm	າຣ**		Re	sult	
1.	Particulate Matter	r (PM₁	0)	IS 51	182 P	Part 23	:2006	8 RA	2017	'		µg/m			10	0	85.7			
2.	Particulate Matter	r (PM ₂	.5)		IS 51	82 Pai	rt 24:	201	9	-3				60)			4.2		
3.	Sulphure Dioxide	(SO ₂))	IS 51	82 P	art 02:	200	1 RA	201	7		µg/m ³ 80)		2	1.7		
4.	Nitrogen Dioxide	(NO ₂)		IS 51	82 P	art 06:	2006	6 RA	201	7		µg/m		80				3	4.9	
5.	Ammonia (NH ₃)				IS 51	82 Pa	rt 25:	201	8			µg/m			40	0			0.9	
6.	Ozone (O ₃)				IS 51	82 Pa	rt 09:	197	4			µg/m			18	0		2	1.4	
7.	Arsenic (As)				USE	PA IO	3.2:	1999	9			ng/m							MDL-2)
8.	Lead (Pb)				IS 51	82 Pa	rt 22:	200	4	µg/m ³				1.	0		().4		
9.	Nickel (Ni)	IS 5182 Part 26					rt 26:	202	0			ng/m	1 ³					BDL (MDL-4)
									Repo											
Env.Co	ndition of Lab.	test	ing ar	ry is m ·ea as	perl	IS 196	5:196	66(C	:).							umidi	ty 65:	±5 % i	n all	
Abbrev				imum	and the second second				and the second se				tion	Limi	t					
Norms*	* is Specified							dards (NAAQS), 2009.												
Remark	nark Sample Comply with prescribed specification																			

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Singh & Team

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 for an ability of institute for Environmental Management will be innered to interfere any institute for Environmental Management will be innered to interfere any institute for any	(Tauqeer Ahmad) 🛸 💉 /(Dr/ S. C. Jain)
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Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India





Discipli	ine: Chemical		Group: Atmo	ospheric Polluti	on	Sub-Grou	ip: Ambient Air
Report	Issue Date: 22-0	1-2025		Test Report N	lo.: RN-	240715001A14	4
Sample	ID: 250120AP02	2005		Sample Desc	iption:	Ambient Air	
Challar	No./P.O. No.: 3	000173714/	/J02	Challan No./	P.No. D	ate: 15-07-202	4
Issued	M/s Tata St (Formerly Ta Gamaharia	ata Steel L Phase-V, A	d Long Products Lir Adityapur Industri Jharkhand-8321	ial Area,			
Type of	f Industry: Iron &	Steel		Customer Re	oresent	ative: Kishor P	ramanik
Sample	Drawn by: IEM	Team	_	Sampling Dat	e: 15-0	1-2025 to 16-03	1-2025
Protoco	ol: CPCB Guidelin	e(NAAQMS	5/36/2012-13) & IS M	Method 5182 Se	eries		
Sampli	ng Location: SBW	M NEAR M	AIN GATE UNIT-2				
Field M	leteorological Inf	ormation	A. Temp.(°C): 18	R.H.(%): 52	W.C.	: Sunny	W.D.: SE to NW
Sample	Receiving Date:	20-01-2025	Testing Star	rted: 20-01-202	5	Testing Ende	ed: 22-01-2025
	-		Te	st Results			
SI. No.	Paramet	ers	Test Metho	d	Unit	Limits	Result
10.	Benzene (C ₆ H ₆)	-	IS 5182 Part 11:	2006	ug/m ³		BDL (MDL-0.06)
11.	Benzo (a) Pyrene Particulate Phase		IS 5182 Part 12:		ng/m ³		BDL (MDL-0.18)
12.	Carbon Monoxide	e	IEM/SOP/Air-01	:2022 r	ng/m ³		BDL(MDL-1.8)
			End	of Report			
Env.Co	ndition of Lab.		y is maintaining Te ea as per IS 196:196		2°C and	l Relative Hum	idity 65±5 % in all
Abbrev	iation	MDL: Min	imum Detection Lim	it, BDL:Below	Detectio	on Limit	
Norms*	** is Specified	National Ar	nbient Air Quality Stand	lards (NAAQS), 20	09.		
Remark	(N/A					

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Singh & Team

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is issued by the Director of the Organization.	Rand Director

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Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001



Institute for Environmental Management



Test Report

ULR No.:		Т	С	1	5	2	9	2	2	5	0	0 0	0	0 0	0 2	2 5	
Discipline:	: Chemi	cal		Grou	p: Atn	nospł	neric P	olluti	on	Sub-Gro	oup:	Ambient Noi	se Lev	els (Exclu	ding Vibra	ation)	
Report Iss	ue Date	e: 15-	01-20	25						Test Re	port	No.: RN-240	71500)1N1			
Sample ID	: 25011	3AP(09001							Sample	Des	cription: Aml	bient	Noise			
Challan No				73714	1/J02					Challan	No.	/ P.No. Date:	15-07	7-2024			
Issued to:																	
	M/s Ta	ita St	eel Li	mited													
	(Forme	eriv T	ata St	teel Lo	ong P	rodu	cts Li	mited	1)								
	Gamal				-												
	Seraik								,								
Type of In										Custom	er R	epresentativ	e: Kisl	nor Prama	anik		
Type of Industry: Iron & SteelCustomer Representative: Kishor PramanikSample Drawn by: IEM TeamSampling Date: 07-01-2025 to 08-01-2025																	
Protocol: (had 0	020.1	0.021	-		Jampin				00 01 101			
				Summer State	and the torque of the second of												
Sampling											1			1			
Field Mete	eorolog	ical I	nform	ation	Α.	Temp	.(°C):	1		(%): 50	W	.C.: Sunny		W.D.: N	lorth to S	outh	
						-		Tes	st Res	ult		1					
SI. No		P	arame	eter			Ме	thod		Unit		Day Time	Nig	ht Time	Norm	S**	
1.	Equiv	valent	Soun	d Leve	l (Leq)	IS 99	89:19	B1	dB(A	.)	68.0	64.4 Day - 79 Night - 7				
						l		End	of Re	ports							
4. dB(A) Leq de 5.A "decibel" i response chara	shall mear gories of a enotes the s a unit in acteristics	from 1 reas ma time v which of the	10.00 p.r ay be de veightec noise is i human e	n. to 6.0 clared a: d average measure ear.	0 a.m. one of of the d. "A", i	level of n dB(A)	sound i Leq, de	n decib	els on s	scale A which	is rel	mpetent authority atable to human h n the measuremen	nearing.	se and corresp	oonds to freq	uency	
6.Leq: It is an e	energy me	ean of t	he noise	level, o	/er a spe	ecified p	period.										
Env. Cond	ition of	Lab.	per	IS 196	:1966	(C).						Relative Humid	lity 65	±5 % in al	l testing a	rea as	
Abbreviati			MD	L: Mini	mum	Detect				elow Dete							
Norms** is	specif	ied	Asj				ı (Regu			Control) I	Rules	s - 2000					

Tested By: Akanksha Sourabh

Remark

Sample Drawn By: Rahul Singh & Team

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 In case of feedback/ complaints, please send an email at <u>dqm.iemeco@gmail.com</u> 	(Tauqeer Ahmad)	(Dr. 5) C. Jain)
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Page 1 of 1		Rend

Sample Comply with Prescribed Specification.

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001





													TC-1	5292		
					Test	Report										
ULR No.:	T	C 1	5	2 9	2	2 5	0 0	0	0	0	0	0	2	6		
Discipline:	Chemical	Grou	ip: Atmo	spheric P	ollution	Sub-Gro	up: Amb	ient No	oise Le	evels	Exclud	ding V	ibrati	ion)		
Report Iss	ue Date: 15-0	01-2025				Test Rep	ort No.:	RN-24	07150	001N2	2					
Sample ID	:250113AP0	9002				Sample	Descripti	on: An	nbien	t Nois	e					
Challan No	./P.O. No.: 3	300017371	4/J02			Challan	No./P.N	o. Date	e: 15-0	07-20	24					
Issued to:	-															
	M/s Tata Ste	eel Limited	1													
	(Formerly Ta	ata Steel L	ong Pro	ducts Li	mited)											
	Gamaharia I	Phase-V, A	dityapu	r Industr	rial Area,											
	Seraikela-K	harsawan,	Jharkha	and-8321	108											
Type of In	dustry: Iron &	& Steel				Custome	er Repres	entati	ve: Ki	shor I	Prama	nik				
	awn by: IEM					Customer Representative: Kishor Pramanik Sampling Date: 07-01-2025 to 08-01-2025										
	CPCB Guidelin		thod 998	9:1981			0									
	Location: SBV															
	eorological In			mp.(°C):	15 RH	I. (%): 50	W.C.: S	unny		M	.D.: N	orth t	o Sou	ith		
inclu mete	cororogical in				Test Re		mens	anny					0.000			
SI. No	Pa	arameter		Ме	thod	Unit	Da	y Time	N	ight T	ime	No	orms*'	*		
1.	Equivalent	Sound Leve	el (Leq)	IS 998	89:1981	dB(A)	69.1			65.3			ay - 75 ght - 7			
					End of F	eports										
2. Night time s 3. Mixed categ 4. dB(A) Leq de 5.A "decibel" is response chara	all mean from 6.0 hall mean from 10 ories of areas marenotes the time w s a unit in which n acteristics of the h energy mean of th	0.00 p.m. to 6.0 y be declared a eighted averag oise is measur uman ear.	00 a.m. is one of the ge of the leve ed. "A", in di	el of sound i B(A) Leq, de	n decibels or	scale A which	is relatable	to humar	hearin	0	l corresp	onds to	freque	ncy		
Env. Cond	ition of Lab.				emperatu	re 27± 2°C a	nd Relativ	ve Hum	idity 6	5±5 %	6 in all	testin	g area	a as		
Abbreviati	on	per IS 190 MDL: Min			mit. BDL	Below Detec	tion Limi	t								
Norms** is		As per No	ise Pollut	ion (Regu	lation and	d Control) R										
Remark		Sample Co							and the second sec							

Tested By: Akanksha Sourabh

Sample Drawn By: Rahul Singh & Team

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In case of feedback/ complaints, please send an email at <u>dqm.iemeco@gmail.com</u>	(Tauqeer Ahmad) 😫 🛛 🏹 🏹 (D. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manage
Page 1 of 1	- AGATO

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001





						Test	Re	port									
JLR No.:	Т	С	1	5	2 9		2	5	0	0	0	0	0	0	0	2	
Discipline:	Chemical		Group	Atmo	sphoric	Pollution		Sub-G	roup	· Amh	ient N	nicol	ovols	(Evclu	Iding \	/ihrati	on
	ue Date: 22-0	1 20		Attric	spheric	ronution		the second second second			RN-24				iunig v	Ibrati	511
			23														
	:250120AP0										on: Ar			and the second			
Challan No	./P.O. No.: 3	0001	73714/	J02			(Challa	n No	./ P.N	o. Dat	e: 15-	-07-20)24			
ssued to:																	
	M/s Tata Ste	el Li	mited														
	(Formerly Ta	ata Si	teel Lor	na Pro	ducts I	imited)											
	Gamaharia I			•		,											
	Seraikela-K																
					anu-037	2100											
	dustry: Iron &										entati						
Sample Dr	awn by: IEM	Tear	n				5	Sampl	ing D	ate: 1	5-01-2	2025 t	0 16-0	01-20	25		
Protocol: (CPCB Guidelin	ne & I	S Meth	od 998	39:1981												
 Percentence mensione 	ocation: STA																
	and the second se				A setting of the tax to be the set of the set	the second s		0/) 50								1.4./	
Field Mete	orological In	form	ation	A. Ie	mp.(°C)	and the second	•	%): 52	N	/.C.: S	unny		N	/.D.: 5	E to N	VV	
						Test Re	sult	t									
SI. No	Pa	arame	eter		N	lethod		Un	it	Da	y Time	M	light 1	ime	N	orms*'	6
1.	Equivalent	Soun	d Level	(Leq)	IS 9	989:1981		dB(A)	71.1			57.7			ay - 75 ght - 7	
						End of F	2000	orte								Jiii - 7	
Note: -					and a second	End of r	tepc	0115									
 Day time sha Night time sha Night categ 	all mean from 6.00 hall mean from 10 ories of areas may enotes the time w s a unit in which n	0.00 p.n v be de eighted bise is i uman e	n. to 6.00 a clared as o l average c measured. ear.	a.m. ne of the of the lev "A", in d	el of sound B(A) Leq, d	d in decibels or denotes the fre	n sca	le A whi	ch is re	latable	to humar	n hearir		d corres	ponds to	freque	су
5.A "decibel" is response chara	nergy mean of th	c noise										1.11.4		/ in al	ltoctir	a aroa	a
5.A "decibel" is response chara 5.Leq: It is an e		Lab				Temperatu	re 2	27± 2°C	and	Relati	ve Hum	laity	65±5 %	/0 In ai	1 103111	ig alea	
5.A "decibel" is response chara 6.Leq: It is an e Env. Condi	nergy mean of th	Lab per	IS 196:1	966(C).	-							65±5 %	/0 In al			
5.A "decibel" is response chara 6.Leq: It is an e	nergy mean of th tion of Lab. on	Lab per MD	IS 196:1 L: Minim	1966(C 1um De). tection I	Temperatu Limit, BDL: gulation an	Belo	ow Det	ectio	n Limi	t		65±5 %	⁷⁰ In al	i testii		

Sample Drawn By: Rahul Singh & Team

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Page 1 of 1	Set 1	uner t

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001





-	P															TC-1	5292
						Tes	st Re	eport									
ULR No.	: T	С	1	5 2	9	2	2	5	0	0	0	0	0	0	0	2	
Disciplin	e: Chemical		Group:	Atmosp	neric P	ollutio	n	Sub-Gro	oup:	Ambie	nt No	oise L	evels	(Exclu	ding \	/ibrati	on
Report I	ssue Date: 22-0	1-202	25					Test Re	port	: No.: R	N-24	0715	001N4	4			
Sample	ID: 250120AP03	3002						Sample	Des	criptio	n: An	nbien	t Nois	se			
Challan	No./P.O. No.: 3	0001	73714/J	02				Challan	No.	/ P.No.	Date	e: 15-	07-20	24			
ssued t																	
	M/s Tata Ste																
	(Formerly Ta			-													
	Gamaharia F						ea,										
	Seraikela-Kl			harkhan	d-8321	08											
	Industry: Iron 8							Custom									
	Drawn by: IEM							Samplin	ng Da	ate: 15	-01-2	.025 t	:0 16-0	01-202	25		
Protoco	I: CPCB Guidelir	ie & 19	S Metho	od 9989:	1981	1											
Samplin	g Location: STA	TION-2	2 PLANT	WEST SI	DE BOL	JNDAR	Y										
Field Me	eteorological In	forma	ation	A. Temp				(%): 52	W	. C.: Sur	nny		N	/.D.: S	E to N	IW	
					•	Test	Resu	ult									
SI. No	Para	meter			Metho	bd		Unit		Day Tir	ne	Nig	ht Tim	e	No	rms**	
1.	Equivalent So	und Le	evel (Lee	q) IS	5 9989 :	1981		dB(A)	1	65.7	,	(52.4			y - 75 ht - 70)
	1					End c	of Rej	ports		******	1						
2. Night tim 3. Mixed ca 4. dB(A) Lec 5.A "decibe response ch	shall mean from 6.00 e shall mean from 10 tegories of areas may denotes the time we l' is a unit in which no paracteristics of the h n energy mean of the	0.00 p.m be dec eighted bise is m uman ea	to 6.00 a lared as or average of neasured. ' ar.	.m. ne of the fou the level of 'A", in dB(A	f sound in) Leq, den	decibel	s on s	cale A which	n is rel	latable to	humar	hearin	•	d corresp	oonds to	o freque	ncy
Env. Cor	ndition of Lab.		oratory i IS 196:1		ning Te	empera	iture	27± 2°C a	and F	Relative	Hum	idity	65±5 %	% in all	testi	ng area	a a:

Tested	By: Akanksha Sourabh	

Abbreviation

Remark

Norms** is specified

Sample Drawn By: Rahul Singh & Team

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Page 1 of 1		Rai

MDL: Minimum Detection Limit, BDL: Below Detection Limit

As per Noise Pollution (Regulation and Control) Rules - 2000

Sample Comply with Prescribed Specification.

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001





Test Report

ULR No.:		Т	C	1		2	9	2	2	5	0	0	-	-			0	0	2	9
Disciplin		cal		L.	5 p: Atn	nosph	eric P	ollutio	on	Sub-Gr	oup:	Ambi	ent N	oise	Lev	els (Exclud	ding V	/ibrati	on
Report Is			01-20							Test Re										
Sample I										Sample										-
Challan N					1/J02					Challar										
Issued to	o: M/s Ta (Forme Gamah Seraik	erly T naria	ata S Phas	teel Lo e-V, A	ditya	our In	dustri	ial Ar												
Type of I	A CONTRACTOR OF A CONTRACTOR O				Jilain	manu	-0521	00		Custon	ner Re	epres	entat	ive:	Kisł	nor F	Prama	nik		
Sample D					-			-		Sampli										
Protocol					hod 9	989:1	981				0									
Sampling								JNDAF	RY											
Field Me				And Antonio Contraction and the local			.(°C):			%): 52	W	. C.: St	inny			W	.D.: SI	E to N	W	
								Test												
SI. No		Par	amete	er			Metho	bd		Unit		Day T	ime	Ni	ight	Time	e	No	rms**	
	Equival					10	9989:	1001				68.	4		64	.5		Da	y - 75	
1.	Lyuivan	ent So	ound	Level (L	_eq)	13	9909.	1901		dB(A)								Nig	ht - 70)
1. Note: - 1. Day time s 2. Night time 3. Mixed cat 4. dB(A) Leq	shall mean f e shall mean egories of a	rom 6.0 from 1 reas ma	00 a.m. .0.00 p. ay be de	to 10.00 j m. to 6.00 eclared as	p.m. 0 a.m. 5 one of	the fou		End	ned cate	orts					ring.			Nig	ht - 70)
Note: - 1. Day time s 2. Night time 3. Mixed cat 4. dB(A) Leq 5.A "decibel" response cha 6.Leq: It is an	shall mean f e shall mean egories of a denotes the " is a unit in aracteristics n energy me	rom 6.0 from 1 reas ma time v which r of the ran of th	00 a.m. 0.00 p. ay be de veighte noise is human ne noise	to 10.00 p m. to 6.00 eclared as d average measured ear. e level, ov	p.m. 0 a.m. 6 one of e of the d. "A", i ver a spe	the four level of n dB(A) ecified p	r above r sound in Leq, den period.	mention decibe	ned cate ls on sca e freque	orts gories by ale A whic ency weigh	h is rela nting in	atable to the me	o huma asurem	n hear ent of	fnois			onds to) freque	ncy
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Page **1** of **1**

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001





ULR No.: Discipline: Report Issu Sample ID: Challan No	Chemical	C	1	5	2	9	2	2	5	0 0 0	0	0 0	0 3
Report Issu Sample ID:	chennear		Group							oup: Ambient N		<u> </u>	
Sample ID:	Date: 03.			. Au	lospii		onuci			port No.: RN-2			
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			7271/1	/102						No./ P.No. Dat			-
Issued to:	./P.O. NO	30001	/3/14/	102					Chanan	NO./ F.NO. Da	IE . 13-0	/-2024	
(M/s Tata Si (Formerly T Gamaharia Seraikela-M	ata St Phase (harsa	eel Lo e-V, Ad wan, J	lityap	our In	dustr	rial Ar		Custom	er Representat	tive: Kic	hor Prop	nonik
	lustry: Iron									g Date: 28-01-			the subject of the state of the
	awn by: IEN				200.4	001	-		Samplin	ig Date: 28-01-	2025 10	29-01-2	025
	PCB Guidel												
	ocation: ST			1		the lot of the lot of the second	T		(0/1 50				
Field Mete	orological I	nforma	ation	A. I	emp		20 Tes		(%): 59	W.C.: Sunny	entering and the de	W.D.:	North to Sout
							Tes	i Resi	11[
SI. No	Par	ameter				Meth	od		Unit	Day Time	Night	Time	Norms**
1. E	quivalent S	ound L	evel (Le	eq)	IS	9989:	1981		dB(A)	70.2	66	5.2	Day - 75 Night - 70
	1	and an					End	of Re	oorts				
3. Mixed catego 4. dB(A) Leq den 5.A "decibel" is	notes the time v a unit in which cteristics of the	ay be dec weighted noise is n human e	clared as o average neasured ar. level, ove	one of t of the le . "A", ir er a spe	evel of n dB(A) cified p	sound i Leq, de eriod.	n decibe notes th	els on so le frequ	cale A which	he competent autho is relatable to huma ting in the measurer	an hearing. nent of noi		esponds to frequer
6.Leq: It is an er	tion of Lab.					ning i	emper	ature	27± 2°C a	and Relative Hur	nidity 65	5±5 % in a	all testing area
6.Leq: It is an er Env. Condi Abbreviatio		per	IS 196:	1966(C).						nidity 65	5±5 % in a	all testing area
6.Leq: It is an er Env. Condi	on	per MDL	<u>IS 196:</u> .: Minin	1966(num D	C). Detect	ion Li	mit, BI	DL: Be	low Dete	and Relative Hur ction Limit Rules - 2000	nidity 65	5±5 % in a	all testing area

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Stack Emission Monitoring Report

S.No	Unit	Stack Attached to	Month	Report No.	Sampling on	Sampling Time	Flue Gas Temp. (Deg.C)	Stack Gas Velocity (m/s)	Gas Flow (Nm3/hr)	PM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)
1	SBWM - 1	Reheating Furnace	Jan'25	RN-240715001S04	07.01.2025	11.58am - 01.00pm	320	8.9	27615	23.6	46.4	80.3
2	SBWM - 1	Reheating Furnace	Feb'25	RN-240715001S20	27.02.2025	10:05am - 11:02am	322	9.2	28490	24.1	52.8	92.7
3	SBWM - 1	Reheating Furnace	Mar'25	RN-240715001S19	28.03.2025	10:00am - 10:43am	330	12.1	36917	21.6	59.6	102.1





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is issued by the Director of the Organization.

Page 1 of 1



Test Report

(Dr. S. C. Jain)

Director

12

(Tauqeer Ahmad

Technical Manager

		Т	C		1	5	2	9	2	2	5 0)	0	0	0	0	0	0	3	6
Discipline	: Che	mical						Gro	up: At	mosphe	ric Poll	utio	on	S	ub-Gr	oup: S	Stack	Emissic	n	
Report Is:	sue D	ate: 1	5-01	-202	25						Test R	ep	ort No	.: RN	-2407	15001	1 S04			
Sample I): 250	113AF	P070	01							Sampl	le D	Descrip	otion	Stack	Emis	sion			
Challan N	o./P.	0. No.	: 300	017	3714	1/JO2					Challa	n N	lo./P.	No. D	ate: 1	5-07-	2024			
Issued to	M/s (For Gam	-	Tat ia Pl	a Si hasi	teel e-V,	Long Adit	yapu	ır Ind	lustri	nited) al Area)8	l,									
Type of Ir	ndustr	y: Iror	1 & S	teel							Custor	me	r Repr	esen	tative	Kish	or Pra	amanik		
Sample D	rawn	by: IE	EM T	eam	า	I			1.50		Sampl	ing	Date	07-0	1-202	5 (11:	58 ar	n - 01:0	0 pm)
Protocol:	CPCB	Guide	line	(LAT	rs/80)/201	3-14)	& IS I	Metho	d 1125	5 Series	;								
Field Met	eorol	ogical	Info	rma	tion	1	A. Tei	mp.(°C	: 17	R.H. (%): 50		W.C.:	Sunr	ıy		W.D.	: North	to Sc	outh
Sample R	eceivi	ng Da	te : 1	3-01	L-202	.5	1	estin	g Star	ted: 13	01-202	5		Te	sting I	Inded	: 15-	01-202	5	
								Ge	eneral Pl	nysical Info										
Stack Ide	ntifica	ation		Sin	ngle					Stac	k Heigh	nt fr	rom G	roun	d Leve	l (m)		34		
Emission	Due t	0		Re	heat	ing Fu	irnac	е		Port	Hole H	leig	ht fro	m Gr	ound	evel	(m)	8.9		
Plat Form	า			Av	ailab	le				Inne	r Dime	nsi	on of	Stack	(m)			1.5		
Stack Des	scripti	on		SB	WM (Unit-	1)			Туре	e of Fue	el U	sed					LDO		
Shape of	Stack			Cir	cula	r				Qua	ntity of	Fu	el			ŝ				
Construct	tion N	lateria	al	Me	etal					Proc	uction	Ca	pacity	-						
Sampling	Port			Ava	ailab	le				Poll	ution Co	ont	rol De	vice	if any)		None		
Flue Gas	Temp	eratu	re (°(C): 3	20	Flue	Gas \	Veloc		/s): 8.9		Ga	as Vol	umet	ric Flo	w Rat	e (Nr	n³/hr):	27614	4.7
									Te	est Resul										
SI. NO.			Paran						t Metł			Jnit				sult		No	orms*	*
1.		culates		-					255 (P	and the second		g/Nr				3.6				
2.		ur Dio	and the second se						255 (P	in the second		g/Nr				5.4				
3.		es of Ni							255 (P			g/Nr).3				
4.		on Diox							3270:2		%	5 v/v	V			.3				
5.		on Mor		e (CC	D)				3270:1			ppm				72				
6.	Oxyg	en (O ₂)						IS 1	3270:1			5 v/v	V		1	2				
Env. Con		of Lai	b .	196:1	966(C).			peratur	of Repo 27± 2°C	and Relat			ty 65±	5% in a	ll testin	ng area	a as per l	ŝ	
Abbreviat Norms** i		cified		MDL:	Minii	num D	etecti	on Lim	it, BDL	: Below [Detection	Lin	nit							
Remark	<u>5 5pc</u>	onneu																		
Tested By Sample D					& tea	am														Manager of Social
ecific Contra												R	Review	ed by	/		Auth	orized \$	Signat	orv
The laborati This report This report This report Any compla Total liability In case of fe	shall not is intende int about y of Instit	be reproc ed for only this repo ute for Er	luced e guida rt shou wironm	except nce an Id be c iental I	in full, nd not f commu Manage	without v or legal p nicated i ement w	vritten a ourpose n writing ill be lim	or for ac within 7 ited to ir	vertisem days of voiced a	ent. its issue	~	1.	Abr	rac	L Contraction	onner		N.S.	Jain	•

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand-834001 Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com

Annexure - 3



Institute for Environmental Management



Test Report

ULR		Ç	1	1	5	1	5	2	3	0	Q	0	0	0	Q	7	4	5
Discip	oline: Chemical					Group	o: Wate	r			Electron di se	Sub	Group	: Gro	und W	ater		1
Repo	rt Issue Date: 03-0	04-202	5						Tes	t Repo	rt No	: RN-23	307140	001GV	V1			
Samp	le ID: 250331WAG	02001 8	& 2503	331RC01	L001				San	nple De	escrip	tion: G	round	Wate	r - Bor	e well		
Chall	an No./P.O. No.	: 3000	1737	14/J02					Cha	allan N	lo./F	No. D	ate: 1	5-07	-2024			
Issue	ed to: M/s Tata S (Formerly Gamaharia Seraikela-	Tata S a Phas	Steel se-V,	Long F Aditya	pur In	ndustr	ial Are											
Туре	of Industry: Iron &	& Steel						1	Cus	tomer	Repre	esentat	ive: Ki	shor F	ramar	nik		
Samp	le Drawn by: IEM	Team		-	-			87.5	Sam	npling I	Date:	28-03-	2025					personal second
Proto	col: CPCB Guidelir	ne& IS	Metho	d 3025	Part-0	1	all -							2				
Samp	ling Location: BAG	GANPD	DA	1		0	Seal of						15 .					
Samp	le Receiving date:	: 31-03	-2025		Te	esting	Started	: 31-0	3-202	25		Testin	ng End	ed: 03	3-04-20	025		
					-		Tes	t Result		1								
SI.	Tested Para	meter	s	Unit	NO.	Met	hod No		-			rms**				Res	ults	
No.		lineter	.	onic					A	ccepta	ble	Per	nissib	le		nes	unts	
1.	PH Value						6 (Part -		E	5.5 to 8	.5	No R	elaxat	on		6	.9	
2.	Conductivity			µs/cm			(Part –									34	40	
3.	Turbidity			NTU		IS 3025	6 (Part -	10)		1			5				:1	
4.	Colour			Hazen			(Part -			5			15			<	:5	
5.	Odour					S 3025	i (Part -	05)	A	greeak	ble	Agi	eeabl	Э		Agre	eable	
6.	Total Dissolved S	Solids		mg/l		S 3025	(Part -	16)		500	1.01		2000	-		23	32	
7.	Calcium (as Ca)	S. 1		mg/l	1	S 3025	(Part -	40)		75	As La		200	1		37	' .7	
8.	Total Alkalinity (as CaC	03)	mg/l	1	S 3025	(Part -	23)		200			600			13	34	
9.	Total Hardness (as CaC	03)	mg/l		IS 3025	6 (Part -	21)		200			600			15	50	
10.	Chloride (as Cl)			mg/l	1	S 3025	(Part -	32)		250		1	000			3	0	
11.	Sulphate (as SO ₄	1)		mg/l	1	S 3025	(Part -	24)		200			400			38	3.9	
12.	Magnesium (as I	Mg)		mg/l	APH	HA 350	0 Mg B	. 2017		30			100			13	8.6	
13.	Copper			mg/l	A	PHA 3	111 B.2	017		0.05	1.8		1.5		BD	DL (MD	L – 0.0	2)
14.	Chromium			mg/l	A	PHA 3	111 B.2	017		0.05		No R	elaxati	on	В	DL (MI	DL - 0.2	2)
15.	Zinc			mg/l	A	PHA 3	111 B.2	017		5			15			0.	95	
16.	Nickel			mg/l	A	PHA 3	111 B.2	017		0.3		No R	elaxati	on	BI	DL (ME	DL- 0.02	2)
17.	Mercury			mg/l	A	PHA 3	112 C.2	017		0.001		No R	elaxati	on	BD	L (MD	L – 0.0	5)
18.	Arsenic			mg/l	A	PHA 3	114 C.2	017		0.01		No Re	elaxati	on	BD	L (MD	L – 0.0	2)
19.	Manganese			mg/l	A	PHA 3	111 B.2	017		0.1		No Re	elaxati	on	BD	L (MD	L – 0.0	2)
							End											
	ondition of Lab.	1	96:196									idity 65±	:5 % in	all test	ting are	a as pe	r IS	
	** is Specified		S 10500		vetectio	on Limit	, BDL: Be	elow De	w Detection Limit									
Remar				Comply	with pr	rescribe	ed snecij	icatio	1		1							

Remark Sample Comply with prescribed specification

Tested By: Yashomati Kumari & Sanjay Kumar Sample Drawn By: Rahul Singh & Team

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Page 1 of 2

4.

Specific Contractual Notes: -

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001







			Test Re	port		
Discip	oline: Chemical		Group: Water	31 7 1	Sub-Group: Groun	d Water
Repo	rt Issue Date: 03-04-20	25		Test Report No.:	RN-230714001GW1	
Samp	le ID: 250331WA02001	& 250331RC	01001	Sample Descripti	on: Ground Water -	Bore well
Chall	an No./P.O. No.: 300	0173714/J0	2	Challan No./ P.	No. Date: 15-07-20)24
lssu	Gamaharia Pha	Steel Long ase-V, Adity	Products Limited) apur Industrial Area, rkhand-832108			
Туре	of Industry: Iron & Stee	and the second se		Customer Repres	sentative: Kishor Pra	manik
Samp	le Drawn by: IEM Tean	n		Sampling Date: 2	8-03-2025	
Proto	col: CPCB Guideline& IS	6 Method 302	5 Part-01		1. A. C.	
Samp	ling Location: BAGANP	DDA			1	
Samp	le Receiving date: 31-0	3-2025	Testing Started: 31-0	03-2025	Testing Ended: 03-0	4-2025
		-	Test Resul	t		
SI.	Tested Parameter	Unit	Method No.	N	orms**	Results
No.	resteu Parameter	Onic	Method No.	Acceptable	Permissible	Results
1.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable
2.	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)		23	BDL (MDL 0.1)
3.	Fluoride (as F ⁻)	mg/l	APHA 4500 F D. 2017	1.0	1.5	0.32
4.	Iron	mg/l	APHA 3111 B.2017	1.0	No Relaxation	0.32
5.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL (MDL - 0.2)
	nt		END Repo	rt	63	· · · · · · · · · · · · · · · · · · ·
Env. Lab.	Condition of		is maintaining Temperatu IS 196:1966(C).	ire 27± 2°C and Re	lative Humidity 65	±5 % in all testing
	eviation	MDL: Minin	num Detection Limit, BDL:	Below Detection	Limit	
Norm	ns** is Specified	IS 10500 :20	012			

Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Sanjay Kumar

Sample Drawn By: Rahul Singh & Team

Remark

	ama
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5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	IS TOP
6. In case of feedback/ complaints, please send an email at dgm.iemeco@gmail.com	(Tauqeer Ahmad) (Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Technical Managar Randi Director
is issued by the Director of the Organization.	Director
Page 2 of 2 Corporate office - A-8, Modi Heights, OppAll India Radio Stat	ion, Ratu Road, Ranchi, Jharkhand ~ 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India





TC-15292

Test Report

ULR		T	C	1	1	5 1	5	2	3	0	0	0	0	0	0	7	4	6
Discip	oline: Chemic	al				Gro	up: Wate	er				Sub-	Group	: Grou	ind Wa	iter		
	rt Issue Date								Test	Report	No.:	RN-23	807140	001GW	/2			
Samp	le ID: 25033	1WA0	2002 8	& 250	331RC01	002			Sam	ple Des	cripti	ion: Gi	round	Wate	r - Bore	e well		
Chall	an No./P.O	. No.:	3000	1737	14/J02				Cha	llan No	./ P.	No. D	ate: 1	5-07-	2024			
ssue	Gama	erly [·] haria	Tata S Phas	Steel se-V,	Long P Adityap	roducts I our Indus hand-832	strial Ar											
ype	of Industry:	ron &	Steel			1		S. all	Cust	omer R	epres	sentat	ive: Ki	shor P	raman	ik		
Samp	le Drawn by	IEM	Team				a fair and the		Sam	pling Da	ate: 2	8-03-2	2025	4				
Proto	col: CPCB Gu	idelin	e& IS	Metho	d 3025 I	Part-01	1000	52								a.		
Samp	ling Location	: JHAI	RGOVI	NDPU	R	1. 1. 2												
	le Receiving					Testin	g Started	1: 31-0	3-202	5		Testir	ng End	ed: 03	-04-20	25		
						3.2	and the second of the second of the	t Result			I		0					
SI.	Tested	Parar	notor	-	Unit	D.A.	ethod No			1.	Nor	ms**				Dec	ulte	
No.	rested	raidf	neters		Unit	IVI	ethod NG		Ac	ceptabl	e	Perr	nissib	e		Resu	uits	
1.	PH Value	21				IS 302	25 (Part -	11)	6	.5 to 8.5	5	No Re	elaxati	on		7.	1	
2.	Conductivit	y		-	µs/cm	IS 302	25 (Part -	- 14)		242						26	0	
3.	Turbidity			19	NTU	IS 302	25 (Part -	10)		1		1	5			<	1	
4.	Colour			-	Hazen	IS 302	25 (Part -	04)		5		-	15			<	5	
5.	Odour					IS 302	25 (Part -	05)	A	greeable	2	Agr	eeable	e		Agree	able	
6.	Total Disso	ved S	olids	N.	mg/l	IS 302	25 (Part -	16)		500		2	2000	10		17	2	
7.	Calcium (as	Ca)			mg/l	IS 302	25 (Part -	40)		75	N.		200			25	.7	
8.	Total Alkali	nity (a	s CaC	03)	mg/l	IS 302	25 (Part -	23)		200			600			86	6	
9.	Total Hardr	ness (a	s CaC	03)	mg/l	IS 30	25 (Part	-21)		200			600			13	5	
10.	Chloride (a	s CI)	1		mg/l	IS 302	25 (Part -	32)	185	250		1	.000			23	1	
11.	Sulphate (a	s SO ₄)			mg/l	IS 302	25 (Part -	24)		200			400			25	.1	
12.	Magnesium	(as N	1g)		mg/l	APHA 35	500 Mg B	3. 2017		30			100			17	.3	
13.	Copper				mg/l	АРНА	3111 B.2	2017		0.05			1.5	1	BD	L (MDI	- 0.0	2)
14.	Chromium				mg/l	APHA	3111 B.2	2017		0.05		No Re	elaxati	on			L - 0.2	
15.	Zinc				mg/l	APHA	3111 B.2	2017		5	-		15			0.8	and the second se	/
16.	Nickel				mg/l	APHA	3111 B.2	2017		0.3		No Re	laxati	on	BD		L- 0.02	2)
17.	Mercury				mg/l		3112 C.2			0.001			laxati		avera a set a re-		- 0.0	
18.	Arsenic				mg/l		3114 C.2		-	0.01		No Re	laxati	on	and the state of the state of the state		- 0.0	
19.	Manganese	0			mg/l		3111 B.2			0.1			laxati				0.0	
	<u> </u>				0,			Report									0.0	-,
1v. C	ondition of L	ab.				ntaining Te	mperature	27± 2°	Cand	Relative H	Humid	ity 65±	5 % in	all test	ing area	a as per	' IS	
bre	viation			.96:196 //DL: M		etection Lin	nit, BDL: B	elow De	etectio	n Limit								
	** is Specifie	d	1	S 1050	0:2012													
emar Festec	k By: Yashomati	Kumari				vith prescri	ibed speci	fication	1.									
Sampl	e Drawn By: Ra	hul Sing																
	Contractual Notes		oibilit. f-	r oorto-	t of this re-					Re	view	ed by	1	onmer	Autho	rized	Signa	tory
This This	aboratory accepts report shall not be report is intended complaint about th	reprodution for only	uced exc guidance	ept in fu e and no	ll, without wi	itten approval irpose or for a	dvertisemen	t. issue		1.6	dh	rof	et all	A	A CONTRACTOR	€ E		_
Total	liability of Institute se of feedback/ co	ofor Env	rironmen	tal Mana	agement will	be limited to in	nvoiced amo					Ahma	d)		(Dr	S. C	. Jain)
the bas	sis of Quality Cheo by the Director of t	ked and	Technic					e report		Techn			1.01	Rance	N*	Direc		
	the second s	~													in the second			

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Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India







			lest Re	eport		
Discip	oline: Chemical		Group: Water		Sub-Group: Ground	Water
Repo	rt Issue Date: 03-04-20	25		Test Report No.	RN-230714001GW2	
Samp	le ID: 250331WA02002	2 & 250331RC	01002	Sample Descript	ion: Ground Water -	Bore well
Chall	an No./P.O. No.: 300	00173714/JO	2		.No. Date: 15-07-20	
Issue	Gamaharia Ph	Steel Long ase-V, Adity) Products Limited) /apur Industrial Area, Irkhand-832108			
Туре	of Industry: Iron & Stee	el 🔄	Gue	Customer Repre	sentative: Kishor Prar	manik
Samp	le Drawn by: IEM Tear	n		Sampling Date:	28-03-2025	
Proto	col: CPCB Guideline& I	S Method 302	25 Part-01			
Samp	ling Location: JHARGO	VINDPUR				
Samp	le Receiving date: 31-0)3-2025	Testing Started: 31-	03-2025	Testing Ended: 03-04	4-2025
			Test Resu	lt	10 A	
Sí.	Tested Parameter	Unit	Method No.	N	lorms**	Results
No.	rested Farameter	Onit	Wethod No.	Acceptable	Permissible	Results
1.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable
2.	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)		57	BDL (MDL 0.1)
3.	Fluoride (as F)	mg/l	APHA 4500 F D. 2017	1.0	1.5	0.26
4.	Iron	mg/l	APHA 3111 B.2017	1.0	No Relaxation	0.28
5.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL (MDL - 0.2)
			END Repo	rt	19 A	
Env. Lab.	Condition of		is maintaining Temperatu IS 196:1966(C).	ure 27± 2°C and R	elative Humidity 65±	5 % in all testing
Abbr	eviation	MDL: Minin	num Detection Limit, BDL	: Below Detection	Limit	

Norms** is SpecifiedIS 10500 :2012RemarkSample Comply with prescribed specification.

Tested By: Yashomati Kumari & Sanjay Kumar

Sample Drawn By: Rahul Singh & Team

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Page 2 of 2 Corporate office - A-8, Modi Heights, OppAll India Radio Stat	ion, Ratu Road, Ranchi, Jharkhand ~ 834001
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Laboratory Site ~ H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India





ULRI	No.: T C	1 1	5 1 5 2	3 0 0	0 0 0	0 7 4 7
Discip	line: Chemical		Group: Water		Sub-Group: Grou	und Water
Repo	t Issue Date: 03-04-202	5		Test Report No	.: RN-230714001GV	V3
Samp	le ID: 250331WA02003 8	& 250331RC010	003	Sample Descrip	tion: Ground Wate	r - Bore well
Chall	an No./P.O. No.: 3000	173714/JO2		Challan No./	P.No. Date: 15-07-	-2024
lssue	ed to: M/s Tata Steel Li (Formerly Tata S Gamaharia Phas Seraikela-Khars	Steel Long Pr se-V, Adityap	ur Industrial Area,			
Гуре	of Industry: Iron & Steel			Customer Repr	esentative: Kishor P	Pramanik
Samp	le Drawn by: IEM Team	-	100	Sampling Date	: 28-03-2025	
Proto	col: CPCB Guideline& IS I	Method 3025 P	art-01	100		
Samp	ling Location: NEEMDIH	28				
Samp	le Receiving date: 31-03	-2025	Testing Started: 31-03	3-2025	Testing Ended: 03	3-04-2025
			Test Result-			
SI.	Tested Parameters	unit	Method No.		orms**	Results
No.				Acceptable	Permissible	5m
1.	PH Value		IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	7.3
2.	Conductivity	μs/cm	IS 3025 (Part – 14)			370
3.	Turbidity	NTU	IS 3025 (Part - 10)	1	5	<1
4.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
5.	Odour		IS 3025 (Part - 05)	Agreeable	Agreeable	Agreeable
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	254
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	45.7
8.	Total Alkalinity (as CaC	03) mg/l	IS 3025 (Part - 23)	200	600	152
9.	Total Hardness (as CaC	03) mg/l	IS 3025 (Part -21)	200	600	176
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	34
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	40.3
12.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2017	30	100	12.6
13.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL (MDL – 0.02)
14.	Chromium	mg/l	APHA 3111 B.2017	0.05	No Relaxation	BDL (MDL – 0.2)
15.	Zinc	mg/l	APHA 3111 B.2017	5	15	0.82
16.	Nickel	mg/l	APHA 3111 B.2017	0.3	No Relaxation	BDL (MDL- 0.02)
17.	Mercury	mg/l	APHA 3112 C.2017	0.001	No Relaxation	BDL (MDL – 0.05)
18.	Arsenic	mg/l	APHA 3114 C.2017	0.01	No Relaxation	BDL (MDL - 0.02)
19.	Manganese	mg/l	APHA 3111 B.2017	0.1	No Relaxation	BDL (MDL - 0.02)
			End Report-			

Env. Condition of Lab.	Laboratory is maintaining Temperature $27\pm 2^\circ$ C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500 :2012
Remark	Sample Comply with prescribed specification.
Tested By: Yashomati Kumari &	Sanjay Kumar

Sample Drawn By: Rahul Singh & Team

is issued by the Director of the Organization.

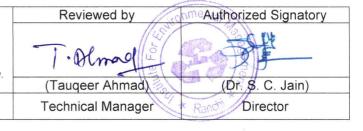
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Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001







Discip	oline: Chemical		Group: Water	Sub-Group: Ground Water				
Repo	rt Issue Date: 03-04-20	25		Test Report No.: RN-230714001GW3				
Samp	le ID: 250331WA02003	& 250331RC	01003	Sample Description: Ground Water - Bore well				
Chall	an No./P.O. No.: 300	0173714/J0	2	Challan No./ P	.No. Date: 15-07-20)24		
lssue	Gamaharia Pha	Steel Long ase-V, Adity	Products Limited) apur Industrial Area, rkhand-832108	an a				
Туре	of Industry: Iron & Stee		e*	Customer Repre	sentative: Kishor Pra	manik		
Samp	le Drawn by: IEM Tean	1		Sampling Date: 2	28-03-2025			
Proto	col: CPCB Guideline& IS	Method 302	5 Part-01		A A			
Samp	ling Location: NEEMDI	-						
Samp	le Receiving date: 31-0	3-2025	Testing Started: 31-0	3-2025	Testing Ended: 03-0	4-2025		
			Test Result		i and i and i	·		
SI.	Tested Parameter	Unit	Method No.	. N	orms**	Results		
No.	resteu Parameter	Onit	method ito:	Acceptable	Permissible			
1.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable		
2.	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL 0.1)		
3.	Fluoride (as F)	mg/l	APHA 4500 F D. 2017	1.0	1.5	0.43		
4.	Iron	mg/l	APHA 3111 B.2017	1.0	No Relaxation	0.82		
5.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL (MDL - 0.2)		
		1	END Repor	·t		· · · · · · · · · · · · · · · · · · ·		
			aboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing rea as per IS 196:1966(C).					
	eviation	and the second	num Detection Limit, BDL:	Below Detection	Limit			
	ns** is Specified	IS 10500 :20			138 / J. 18			
Rema	ark	Sample Cor	nply with prescribed spe	cification.				

Tested By: Yashomati Kumari & Sanjay Kumar

Sample Drawn By: Rahul Singh & Team

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is issued by the Director of the Organization.	
Page 2 of 2 orporate office - A-8, Modi Heights, OppAll India Radio Stati	on, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India





ULR		T	C	1	1	5	1	5	2	3	0	0	0	0	0	0	7	4	8
Discip	oline: Chemi	cal					Group	: Water					Sub-	Group	: Grou	und W	ater		
Repo	rt Issue Date	e: 03-0	4-202	5						Test	t Repo	rt No.	: RN-23	07140	01GV	V4			
Samp	le ID: 25033	B1WA0	2004	& 250	331RC01	.004		a		Sam	nple De	script	tion: G	ound	Wate	r - Bor	e well		
Chall	an No./P.C). No.:	3000)1737	14/J02					Cha	illan N	o./ P	.No. D	ate: 1	5-07-	-2024			
Issue	Gama	nerly [·] aharia	Tata Pha	Steel se-V,	d Long P Aditya n, Jhark	pur Ind	dustri	al Are	a,										
Туре	of Industry:	Iron &	Steel							Cust	tomer	Repre	sentat	ive: Ki	shor F	Pramar	nik		
	le Drawn by								Sec. 1	Sam	npling [Date:	28-03-2	2025					
Proto	col: CPCB G	uidelin	e& IS	Meth	od 3025	Part-01	1								1				
5amp	ling Locatio	n: JHAI	RKHUI	_	Ser.	5	0	3.6						Exc					
	le Receiving					Те	sting S	started	31-0	3-202	25	E.	Testir	ng End	ed: 03	3-04-20	025		
						A.		Test											
SI.	Tester	Tested Parameters		Unit	5	Moth	nod No.			No		rms**			Results				
No.		ararar	neter	5	onit		wieti			Acceptable		ole	Permissible						
1.	PH Value	3				IS	5 3025	(Part -	art - 11) 6.5 to 8.5		.5	No Relaxation			7	.2			
2.	Conductivi	ity			µs/cm	IS	3025	(Part –	- 14)						2	85			
3.	Turbidity				NTU	IS	5 3025	(Part -	10)		1			5			<	:1	
4.	Colour				Hazen	IS	IS 3025 (Part - 04)			5		15		<5					
5.	Odour					IS	5 3025	(Part -	D5)	A	greeab	le	Agr	eeable	2		Agre	eable	
6.	Total Disso		olids		mg/l	IS	5 3025	(Part -	16)		500		2	000			1	90	
7.	Calcium (a	s Ca)			mg/ł	IS	5 3025	(Part -	40)		75	2.4		200	-		28	3.9	
8.	Total Alkal	inity (a	as CaC	O3)	mg/l	IS	3025	(Part - :	23)	181	200			600			9	8	
9.	Total Hard	ness (a	as CaC	O3)	mg/l	15	\$ 3025	(Part -2	21)		200		600			141			
10.	Chloride (a	as Cl)			mg/l	IS	3025	(Part - 3	32)		250		1000				2	.5	
11.	Sulphate (a	as SO ₄)		_	mg/l	IS	3025	(Part - :	24)		200		400			2	.8		
12.	Magnesiur	m (as N	/lg)		mg/l	APH	PHA 3500 Mg B. 2017			30	30 1		100			16	5.8		
13.	Copper				mg/l	AF	PHA 31	11 B.20)17		0.05		1.5 BDL (MDL -		1L - 0.C	(2)			
14.	Chromium				mg/l	AF	PHA 31	.11 B.20)17				No Re	territe state in the second state of the secon		DL (MI	DL – 0.	2)	
15.	Zinc				mg/l	AF	PHA 31	.11 B.20)17		5			15			0.	91	
16.	Nickel				mg/l	AF	PHA 31	.11 B.20)17		0.3		No Re	laxati	on	B	DL (ME	DL- 0.0	2)
17.	Mercury				mg/l	AF	PHA 31	.12 C.20)17		0.001		No Relaxation		BC	L (MD	L – 0.C	5)	
18.			AF	PHA 31	.14 C.20)17	17 0.01			No Relaxation		BDL (MDL – 0.02)		2)					
19.	Manganes	е			mg/l	AF	PHA 31	.11 B.20)17		0.1		No Re	laxati	on	BD	L (MD	L – 0.0	2)
								End I	Report-						I		,		
inv. C	ondition of	Lab.		_abora 196:19	tory is ma 66(C).	intainin	g Temp	erature	27± 2°	Cand	Relative	Humi	dity 65±	5 % in	all test	ting are	a as pe	er IS	
	viation				linimum D	etection	n Limit,	BDL: Be	low De	etectio	on Limit								
Norms** is Specified IS 10500 :2012						1													
Remark Sample Comply with					with pre	escribe	u specif	catior	1.										

Tested By: Yashomati Kumari & Sanjay Kumar Sample Drawn By: Rahul Singh & Team

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Page 1 of 2

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Tank the research

Test Report

Discip	oline: Chemical		Group: Water	Sub-Group: Ground Water					
Repo	rt Issue Date: 03-04-20	25		Test Report No.: RN-230714001GW4					
Samp	le ID: 250331WA02004	& 250331RC	01004	Sample Descript	ion: Ground Water -	Bore well			
Chall	an No./P.O. No.: 300	0173714/J0	2	Challan No./ P	.No. Date: 15-07-20	024			
Issue	Gamaharia Ph	Steel Long ase-V, Adity	Products Limited) apur Industrial Area, rkhand-832108	i. Mala					
Туре	of Industry: Iron & Stee	el	pe k	Customer Repre	sentative: Kishor Pra	imanik			
Samp	le Drawn by: IEM Tean	n		Sampling Date:	28-03-2025				
Proto	col: CPCB Guideline& IS	5 Method 302	25 Part-01		1. A				
Samp	ling Location: JHARKHU	JLI			1 1 1 1				
Samp	le Receiving date: 31-0	3-2025	Testing Started: 31-0	3-2025	Testing Ended: 03-0	04-2025			
			Test Result	;					
SI.	Tested Parameter	Unit	Method No.	N	orms**	Results			
No.	resteur urameter	onne	method no.	Acceptable	Permissible	Results			
1.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable			
2.	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL 0.1)			
3.	Fluoride (as F)	mg/l	APHA 4500 F D. 2017	1.0	1.5	0.34			
4.	Iron	mg/l	APHA 3111 B.2017	1.0	No Relaxation	0.24			
5.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL (MDL - 0.2)			
		1	END Repor	t	17 C				
Env. Condition of Lab.Laboratory is maintaining Temp area as per IS 196:1966(C).				re 27± 2°C and R	elative Humidity 65	±5 % in all testing			
	eviation		num Detection Limit, BDL:	Below Detection	Limit				
	s** is Specified	IS 10500 :2012							
Rema	ark	Sample Comply with prescribed specification.							

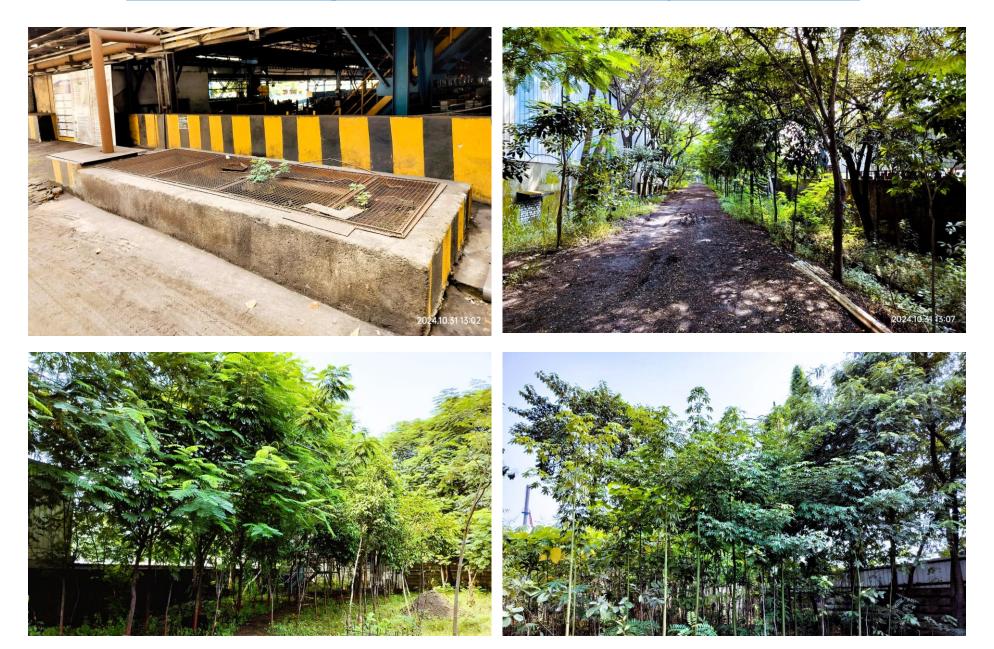
Tested By: Yashomati Kumari & Sanjay Kumar

Sample Drawn By: Rahul Singh & Team

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Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Rainwater Harvesting Structure and Green Belt Development at SBWM - 1





Institute for Environmental Management



		Ins. I	est Report	.of	2	20			
Discip	line: Chemical	Group: Atm	nospheric Pollutio		iroup: Work Envir	onment			
Report	t Issue Date: 11-04-2024	de la	Test Report No.: RN-230714001FE01						
Sampl	e ID: 240408AP14001	lle	Sample Description: Work Zone Air						
Challa	n No./P.O. No.: 4511012880	3.	Challan No./	P.No. Date: 13-07-	2023	100			
lssued	M/s Tata Steel Limited (Formerly Tata Steel L Gamaharia Phase-V, A Seraikela-Kharsawan,	ong Products Li Adityapur Industr	rial Area,		stronn. onne	htalle			
Type o	of Industry: Iron & Steel	and the second s	Customer Re	presentative: Shu	weta Kumari	20			
	e Drawn by: IEM Team	- Aller		e: 03-04-2024	and the second s	ma			
	col: CPCB Guideline(NAAQMS	/36/2012-13) & IS N		and the second s	10				
	ing Location: : SBWM NEAR F			the shall be		2			
	Aeteorological Information	A. Temp.(°C): 35	R.H. (%): 54	W.C.: Sunny	W.D.: SW				
Sample	e Receiving Date: 08-04-2024	Testing Sta	arted: 08-04-202	4 Testing I	Ended: 11-04-202)24			
No.	181	T	est Results	Par la	100	20-			
SI. No.	Parameters	Test Me	ethod	Unit	Result	Norms**			
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:	2006 RA 2017	µg/m ³	1247.5	3			
2.	Sulphure Dioxide (SO ₂)	IS 5182 Part-02:	2001 RA 2017	µg/m ³	26.7				
3.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06:	2006 RA 2017	µg/m ³	48.5				
	Carbon Monoxide (CO)	IEMICOD							
4.		IEIVI/SOP/	2022/01	mg/m3	BDL(MDL-1.8)	100			
4.	J J J J J X	En	d of Report		Con	- Chille			
Env. C Abbrev	condition of Lab. Laborator testing ar wiation MDL: Min	and the second states of the second	d of Report emperature 27± 966(C).	2°C and Relative	Con	o in all			
Env. C Abbrev	condition of Lab. Laborator testing ar	ry is maintaining T ea as per IS 196:19	d of Report emperature 27± 966(C).	2°C and Relative	Con	o in all			
Env. C Abbrev Norms Remar	Condition of Lab.Laborator testing anviationMDL: Min** is Specifiedk	ry is maintaining T ea as per IS 196:19	d of Report emperature 27± 966(C).	2°C and Relative	Con	o in all			
Env. C Abbrev Norms Remar Testec	condition of Lab. Laborator testing ar viation MDL: Min ** is Specified	En ry is maintaining T rea as per IS 196:19 imum Detection Li	d of Report emperature 27± 966(C).	2°C and Relative	Con	o in all			
Env. C Abbrey Norms Remar Testec Sampl	Condition of Lab. Laborator testing an viation MDL: Min ** is Specified *k d By: Akanksha Sourabh le Drawn By: Rahul Singh & Te boratory accepts responsibility for content of	En ry is maintaining T rea as per IS 196:19 imum Detection Li am	emperature 27± 966(C). mit, BDL: Below	2°C and Relative	Humidity 65±5 %	state for			
Env. C Abbrev Norms Remar Testec Sampl Sampl 2 This re 3 This re 4. Any co 5 Total	iondition of Lab. Laborator viation MDL: Min ** is Specified *k d By: Akanksha Sourabh le Drawn By: Rahul Singh & Te boratory accepts responsibility for content of sport shall not be reproduced except in full, w portiant about this report should be communiability of linstitute for Environmental Manager	this report. ithout written approval of the r legal purpose or for advertis icated in writing within 7 days ment will be limited to invoice	MD. definition is the second	2°C and Relative I Detection Limit	Humidity 65±5 %	ed Signato			
Env. C Abbrey Norms Remar Testec Sampl Sampl Sampl 2. This re 3. This re 4. Any co 5. Total II 6. In case	iondition of Lab. Laborator testing an testing an wiation viation MDL: Min ** is Specified k d By: Akanksha Sourabh le Drawn By: Rahul Singh & Te boratory accepts responsibility for content of sport shall not be reproduced except in full, waport is intended for only guidance and not for simplaint about this report should be communicated by the second should by	this report. ithout written approval of the r legal purpose or for advertis icated in writing within 7 days ment will be limited to invoice nail at gm.iemeco@gmail.com	MD. MD. sement. of its issue d amount only. M.	2°C and Relative I Detection Limit Checked by	Authoriza	shagement			

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Laboratory Site - H.No. – A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Institute for Environmental Management



form the orders of the

de.	`			est Report	.93	the .	de la			
Discip	line: Chemical		Group: Atm	ospheric Pollutio	n Sub-	Group: Work Envi	ronment			
	t Issue Date: 11-	04-2024	Group. Attr	Test Report No.: RN-230714001FE02						
Sampl	e ID: 240408AP1	14002	100	Sample Description: Work Zone Air						
	n No./P.O. No.:		the second second	Challan No./ P.No. Date: 13-07-2023						
Issued	l to: M/s Tata S (Formerly T Gamaharia	teel Limite Fata Steel I Phase-V, /	- Char	rial Area,	tort torthe	attonne onne	ntal Man			
Type of	f Industry: Iron 8	& Steel	and the second	Customer Rep	resentative: Sh	weta Kumari	"Bar			
	Drawn by: IEM		185	Sampling Date:	and the second s	- V	- Bar			
Protoco	ol: CPCB Guidelin	ne(NAAQMS	/36/2012-13) & IS N			10				
Sampli	ng Location: : SB	WM NEAR C	QUALITY LAB UNIT-2		the second	the ist	Se.			
	eteorological In		A. Temp.(°C): 35	R.H. (%): 54	W.C.: Sunny	W.D.: SV	/ - NE			
Sample	Receiving Date	: 08-04-2024		rted: 08-04-2024	Testing	Ended: 11-04-202	24			
1 aller	I La	8	Te	st Results	1.50	All and a second	23			
SI. No.	Parame	ters	Test Me	thod	Unit	Result	Norms**			
1.	Particulate Mat	tter (PM ₁₀)	IS 5182 Part 23:2	2006 RA 2017	µg/m ³	1006.5	÷			
2.	Sulphure Diox	ide (SO ₂)	IS 5182 Part-02: 2	2001 RA 2017	µg/m ³	28.4				
3.	Nitrogen Dioxi	Nitrogen Dioxide (NO ₂) IS 5182 Part-06:			µg/m ³	50.6				
4.	Carbon Monox	kide (CO)	IEM/SOP/2	022/01	mg/m3	BDL(MDL-1.8)				
2	and the second	111		l of Report		Carlos and	102			
nv. Co	ndition of Lab.		y is maintaining Te ea as per IS 196:196		°C and Relative I	Humidity 65±5 %	in all			
bbrevia	ation		mum Detection Lim		etection Limit	To V				
lorms**	is Specified		and the	1 april	ST NI	Cer I				
emark		(1)))	and the second s	N.	all all	10	- Sec.			
	3y: Akanksha Sou Drawn By: Rahul		Settlement Institute							
The laborat This report This report	is intended for only guid	except in full, with ance and not for le uld be communicat	out written approval of the MD gal purpose or for advertisem ted in writing within 7 days of i	ent. Its issue	Checked by	Authorize	ed Signatory			
Total liabilit	ty of Institute for Environment	mental Managemei	nt will be limited to invoiced an	nount only.	augeer Ahmad		C loin)			

Total liability of institute for Environmental metagement with be institute for Environmental metagemental metagemental metagement with be institute for Environmental metagemental metagement with be institute for Environmental metagemental metagemental metagementation with be institute for Environmental metagemental metagemetagemental metagemental metagemental metagemental metagemen

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Institute for Environmental Management





			Group: Atn	nospheric Pollut	tion	Sub-Group: Work Environment		
Report Issue Date: 11-04-2024			Test Report No.: RN-230714001FE03					
Sample ID: 240408AP14003			Sample Desc	ription:	Work Zon	e Air		
Challa Issue	an No./P.O. No.:	4511012880		Challan No./	P.No. Da	ate: 13-07	-2023	
	M/s Tata S (Formerly Gamaharia	Phase-V,	ed Long Products Li Adityapur Industr , Jharkhand-8321	rial Area,				
ype c	f Industry: Iron a	& Steel	and the second s	Customer R	epresent	ative: Sh	weta Kumari	2a
Sampl	e Drawn by: IEN	/ Team	282	Sampling Dat		and the second s	mal 4	32.
rotoc	ol: CPCB Guideli	ne(NAAQMS	/36/2012-13) & IS N				10	
ampli	ng Location: : SE	M NEAR QA	BUILDING UNIT-1		And a	a	China	20
ield N	leteorological In	formation	A. Temp.(°C): 35	R.H. (%): 54	W.C.:	Sunny	W.D.: SV	/ - NE
ample	Receiving Date	: 08-04-2024	Testing Sta	rted: 08-04-202	.4	Testing B	Inded: 11-04-202	24
15	Th		Те	st Results	5	1	100	23 -
l. No.	Parame	ters	Test Met	thod	L	Init	Result	Norms**
1.	Particulate Mat	tter (PM ₁₀)	IS 5182 Part 23:2	006 RA 2017	hõ	g/m ³	1423.5	9
2.	Sulphure Diox	ide (SO ₂)	IS 5182 Part-02: 2	2001 RA 2017	μg	ı/m ³	28.4	
3.	Nitrogen Dioxi	de (NO ₂)	IS 5182 Part-06: 2	006 RA 2017	hđ	ı/m ³	46.9	
4.	Carbon Monox	tide (CO)	IEM/SOP/20	022/01	mg	ı/m3	BDL(MDL-1.8)	
	101 2	1111	End	of Report			de	10
v. Co brevia	ndition of Lab.	testing are	v is maintaining Ter a as per IS 196:196	6(C).			lumidity 65±5 %	in all
	is Specified		num Detection Limi	IL, BDL: Below]	Detection	Limit	10,000	
mark	ie opeenied	2.	Con all and the second	1 93	100 m	Aller	200	
nurk	2	A CONTRACTOR	Charles and the second		the second second	7 10		- Q

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Page 1 of 1	× A	anch:

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony, Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004 Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-13774242/2022/465

Dated : 2022-10-24

Consent to Establish (CTE) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Reference: Application (s) No.- 13774242 / dated : 31/07/2022 of Tata Steel Long Products Limited, SBWM Division -1, Ashish Anupam for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

2. Documents Relied Upon:

(a) The content of granted CTE vide ref no. T-6051 Dated-30.11.1998 on the name M/s UBL Industries and Investment Pvt. Ltd.

(b) The content of a letter submitted in hard copy along with fresh certificate of incorporation consequent on change of name from Usha Beltron Limited to Usha Martin.

(c) The content of checklist ref. 804 dated-25.08.2022 of RO, JSPC Board, Jamshedpur;

(d) The content of Distance Certificate issued by the Deputy Conservator of forest and field director Elephant project Jamshedpur vide letter No. 132 dated 10/02/2022 certifying that the distance of project location from RF/PF is not 250m, the project location doesn't comes under 'No Mining Zone', there is no any National Park within 10 km distance from project location, but there is a Wildlife Sanctuary, ESZ located within 10 km distance from project location and the proposed project comes under prohibited category of ESZ.

(e) The content of lease deed vide S. No. 1178/1121 dated-04.04.2019 mentioning land details measuring total area of 53.70 acres.

(f) The content of SEIAA's EC transfer approval letter vide letter no. 97 dated-16.04.2022 from M/s Usha Martin Ltd to M/s Tata Steel Long Products Pvt. Ltd. for "Modernization cum Expansion of Straight Bar & Wire mill".

(g) The content of EC granted to M/s Usha Martin Ltd. vide letter no- EC/SEIAA/2015-16/872/2015/262 dated- 05.11.2018.

(h) The content of Consent to operate (CTO) issued vide Ref No. JSPCB/HO/RNC/CTO-6712608/2020/1324 Dated : 2020-08-18 for Round, squared, Flat angles from iron billets 100 MT/day valid up to 31.03.2023 ;

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- Bara Gamharia, P S -Bara Gamharia, District-SERAIKELA KHARSAWAN as follows:

Project	Site-Area	Investment (Rs)/ Year	Product & Capacity	Period of CTE
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	Plot Nos.	Area			
In Expansion	38 & 42, 4th Phase, AIA, Gamahria,	08 acres	3589 Lakh	Round straight bar, RCS, Flat, Hex-12750 MT/m	As per validity of EC

(A) Specific Conditions:

1. That, the occupier shall transport the material by leak proof and covered vehicles with tarpaulin sheet.

2. That, the occupier shall install foggers type water sprinklers to cover all dusty place in the premises to impart water spraying during loading and unloading of materials and shall keep in good operable conditions.

3. That, the occupier shall ensure cleaning & wetting of ground regularly to maintain good house keeping.

4. That, the occupier shall keep the waste water in close circuit, but shall not use it for recharge to ground water aquifer(s).

5. That, the occupier shall obtain authorization under the Hazardous Wastes (Management, Handling and Transboundary Movement) Rule, 2016;

6. That, the occupier shall maintain & operatewater sprinklers at all dusty places inside the plant to suppress the fugitive emission.

7. That, the occupier shall install Air Pollution Control Device at vulnerable points.

8. That, the occupier shall make Work area and transport roads concrete/black top

9. That, the occupier shall adopt clean development mechanism.

10. That, the occupier shall maintain the quality and table of ground water.

11. That, the occupier shall implement all recommendation made in CREP for steel plants

12. That, the occupier shall do occupational health survey of the workers on regular basis and maintain records properly.

13. That, the occupier shall do socio-economic works in nearby villages/township for welfare of the people and shall pay due compensation to the affected people as per laws and government schemes.

14. That, the occupier shall comply the conditions laid down in Environmental Clearance issued by the Government of India, Ministry of Environment & Forest, New Delhi.

15. That, the occupier shall establish Effluent Treatment Plant (ETP) and shall collect and treat the effluent in latest system.

16. That, the occupier shall store all raw materials and products under shed and shall do their processing and transfer under full-proof cover.

17. That, the occupier shall ensure that there should not by any spillage of coollent/effluent

(B) General Conditions :

(1) That, the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat and clean and tidy.

(2) That, the occupier shall install comprehensive enclosure (s) to cover the places of unloading of raw materials, the equipments of their processing & transferring, the places of loading of products, by products and wastes for prevention of fugitive emission and shall install such automatic inbuilt system(s) that in house dust/ gases collect(s) and undergo (es) cleaning and clean air goes out.

(3) That, the occupier shall install such automatic inbuilt system(s) that process flue gas(es) / process gas(es) and undergo(es) cleaning and clean air go(es) out through the chimney(s), having height(s) as per Central Pollution Control Board norm.

(4) That, the occupier shall have D G Set(s) of the standard as laid in the Environment (protection) Rules, 1986 and shall install it (them) within acoustic enclosure (s) and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.

(5) That, the occupier shall impart treatment as per Central Pollution Control Board text to wastewater and shall keep process effluent in close-circuit and effluent from other sources in conformity with the standard (s).

(6) That, the occupier shall install Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge.

(7) That, the occupier shall create new water body (ies) / remove deposit(s) of existing water body(ies) and nearby stream(s) and pond(s) and shall maintain the wholesomeness of water.

(8) That, the occupier shall grow greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(9) That, this CTE is valid subjected to the validity of mining Lease / Mining Plan / Ecofriendly / Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(10) That, this CTE is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time being in force, rests with the industry/ unit/ occupier.

(11) That, this CTE shall not in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be, instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(12) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules there under.

- 4. That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
- 5. That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.
- This order shall be valid subject to compliance of all other legal requirements applicable to the 6. unit.
- 7. The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.

This is issued with the approval of the competent authority

(Y. K. Das) **Member Secretary**

Dated : 2022-10-24

Memo No.: JSPCB/HO/RNC/CTE-13774242/2022/465

Copy to: M/s Tata Steel Long Products Limited, SBWM Division-1, Plot no. 38 & 42, Phase-4, Adityapur industrial Area, Gamharia, Jamshedpur/ Chief Inspector of Factories, Ranchi/ Director of Industry, Govt of Jharkhand, Ranchi/ Deputy Commissioner, Saraikela Kharsawan/ Regional Officer, Regional Office-Cum-Laboratory, Jamshedpur for information & necessary action.

> (Y. K. Das) **Member Secretary**

JHARKHAND STATE POLLUTION CONTROL BOARD



TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004 Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-17527598/2024/624

Dated : 2024-04-05

Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Application (s) dated 2023-12-04 of Tata Steel Limited, Gamharia, Occupier Name :T V Narendran for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act, 1981..

2. Documents Relied Upon:

(a) The content of SEIAA's EC transfer approval letter vide letter no. 97 dated-16.04.2022 from M/s Usha Martin Ltd to M/s Tata Steel Long Products Pvt. Ltd. for "Modernization cum Expansion of Straight Bar & Wire mill".

(b) The content of Consent to Establish (CTE) vide Ref No.: JSPCB/HO/RNC/CTE-13774242/2022/465 Dated : 2022-10-24 (Expansion) At- plot No. 38 & 42, 4th Phase, AIA, Gamahria, Area 08 acres Inv. 3589 Lakh Round straight bar, RCS, Flat, Hex-12750 MT/m;

(c) The content of Authorization vide JSPCB/ HO/ RNC/ HWM-9206683/2021/10 dated 01/03/2021 for 05 years;

(d) The content of lease deed vide S. No. 1178/1121 dated-04.04.2019 mentioning land details measuring total area of 53.70 acres.

(e) The content of Consent to operate (CTO) vide Ref. No. JSPCB/HO/RNC/CTO-14956006/2023/1185 Dated : 2023-07-01 At- Phase, AIA, Gamahria, Area 8.1 acres Investment 3589 Lakh for Round straight bar, RCS, Flat, Hex-12750 MT/m valid till 31.03.2024 in the name of Tata Steel Long Products Limited.

(f) The content of Submitted Letter Ref.No. TSG/EMD/LKP/CTO/ Dec'23/03 dated 04.12.2023 with supporting information / documents attached for Change of name in the Consent to Operate of Straight Bar & wire Mill Division - I from Tata Steel Long Products Limited to Tata Steel Limited:

1. Copies of the orders dated 18.10.2023 and 20.10.2023 passed by Hon'ble NCLT Cuttack and Mumbai Bench approving the Scheme of Amalgamation.

- 2. Copy of Form INC-28.
- 3. Copy of Form INC-28 receipt

4. Certified copy of intimation of effective date of scheme of Amalgamation dated 15.11.2023.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -Bara Gamharia , P S -Bara Gamharia , District -SERAIKELA KHARSAWAN , as follows:

ProjectSite-AreaInvestment (Rs)Product & Capacity
--

	Plot Nos.	Area			Date of issue To
Before Expansion	38 & 42, 4th Phase, AIA, Gamahria,	8.1 acres	3589 Lakh	Round straight bar, RCS, Flat, Hex-12750 MT/m	31/03/2025

(A) Specific Conditions:

1. That, the occupier shall implement all recommendation made in CREP for steel plants

2. That, the occupier shall do occupational health survey of the workers on regular basis and maintain records properly.

3. That, the occupier shall comply the conditions laid down in Environmental Clearance issued by the Government of India, Ministry of Environment & Forest, New Delhi.

4. That, the occupier shall ensure the cleaning and wetting of ground regularly to improve house keeping.

5. That, the occupier shall operate & maintain effluent treatment plant for treatment of effluent.

6. That, the occupier shall obtain authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

7. That, the occupier shall submit Noise monitoring report to the Board.

8. That, the occupier shall operate and maintain Air Pollution Control Device (APCD) regularly and submit the photographs;

9. That, the occupier shall submit photographs of Tree Plantation, Rain water harvesting, Boundary wall and Water sprinkling system.

10. That, the occupier shall do Loading & unloading of product & raw material in a covered area.

11. That, the occupier shall make Work area and transport roads concrete/ black top.

12. That, the occupier shall purchase raw material only from valid source.

13. That, the occupier shall submit applications for renewal of consent under section 25 / 26 of the Water(Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent i.e. 31.03.2025 with documents showing compliance of all of the above condition.

(B) General Conditions :

(1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

			Concentration	in Ambient Air
S N	Pollutant	Time Weighted Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO2), µg/m3	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO2), µg/m3	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM10, µg/m3	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM2.5, µg/m3	Annual 24 hours	40 60	40 60
5.	Ozone(O3), µg/m3	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m3	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m3	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH3) μg/m3	Annual 24 hours	100 400	100 400
9.	Benzene (C6H6) µg/m3	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m3	Annual	01	01
11.	Arsenic (As) ng/m3	Annual	06	06
12.	Nickel (Ni) ng/m3	Annual	20	20

Note : Serial no. 1 to 4 – Mandatory Serial no. 5 to 12 As applicable for specific type of industry. (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	100 µg/ Nm3

(3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

(4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non- Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.
- (6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

- (10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.
- (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be, instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
- 4. That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
- 5. That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.
- 6. The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.
- 7. The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.

This is issued with the approval of the Competent authority

(Y. K. Das) Member Secretary

Dated : 2024-04-05

Memo No. : JSPCB/HO/RNC/CTO-17527598/2024/624

Copy to: M/s Tata Steel Limited, Gamharia, SBWM Division -1, Plot no. 38 & 42, Adityapur industrial Area (Phase - 4), Gamharia, Jamshedpur/ Chief Inspector of Factories, Ranchi/ Director of Industry, Govt ofJharkhand, Ranchi/ Deputy Commissioner, Saraikela Kharsawan/ Regional Officer, Regional Office-CumLaboratory, Jamshedpur for information & necessary action.

(Y. K. Das) Member Secretary

Annexure - 7



JHARKHAND STATE POLLUTION CONTROL BOARD

T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004

Phone.:2400852, 2400851, Fax:0651- 2400850 www.jspcb.org

FORM 2

[See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

- 1. No. of authorization and date of issue: JSPCB/HO/RNC/HWM-18666808/2024/47 30/05/2024
- 2. Reference of appication(No. and date): 18666808 28/02/2024
- 3. Tata Steel Limited, Gamharia of T V Narendran is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at SBWM Division -1, Plot no. 38 & 42, Adityapur industrial Area (Phase 4), Gamharia, Jamshedpur

Details of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Schedule I (Used Spent oil (5.2))	Recovery and Reuse Authorized recyclers	5 KL/annum
2	Schedule I (Drill cutting containing oil (5.1))	Recovery and Reuse Authorized recyclers	0.16 KL/Annum

(1) The authorisation shall be valid for a period of Valid till 01.03.2026 years

(2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A General conditions of authorisation:

- 1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- 3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

- 5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- 6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
- 8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
- 13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B Specific conditions:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the

rules made there under.

2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.

3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.

4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by

the person authorised shall constitute a breach of his authorisation.

5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation

is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"

7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close

down the facility.

8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

10. The hazardous and other waste which gets generated during recycling or reuse or recovery or preprocessing

or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.

11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.

12. An application for the renewal of an authorisation shall be made as laid down under these Rules.

13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

This authorization supersedes previous authorization granted vide JSPCB/HO/RNC/HWM-9206683/2021/10 dated 01/03/2021 and stands revised up to this extent.

Memo No:JSPCB/HO/RNC/HWM-18666808/2024/47 Date: 30/05/2024 (Sanjay K. Srivastava) Section Head, Jamshedpur

Copy To:

Dy Commissioner, Jamshedpur / The Regional Officer, Regional Office-Cum-Laboratory, JSPCB, Jamshedpur for information and necessary action.

(Sanjay K. Srivastava) Section Head, Jamshedpur

TATA STEEL

ENVIRONMENTAL POLICY

Tata Steel's environmental responsibilities are driven by our commitment to preserve the environment and are integral to the way we do business.

- 1. We are committed to deal proactively with Climate Change issue by efficient use of natural resources & energy; reducing and preventing pollution; promoting waste avoidance and recycling measures; and product stewardship.
- We shall identify, assess and manage our environment impact.
- We shall regularly monitor, review and report publicly our environmental performance.
- We shall develop & rehabilitate abandoned sites through afforestation and landscaping and shall protect and preserve the biodiversity in the areas of our operations.
- We shall enhance awareness, skill and competence of our employees and contractors so as to enable them to demonstrate their involvement, responsibility and accountability for sound environmental performance.
- 2. We are committed to continual improvement in our environmental performance.
- We shall set objective-targets, develop, implement and maintain management standards and systems, and go beyond compliance of the relevant industry standards, legal and other requirements.
- 3. We will truly succeed when we sustain our environmental achievement and are valued by the communities in which we work.

Date: November 1, 2017

TV Narendran CEO & Managing Director

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CSR Activity Gamharia

TSL Gamharia

Education

- Primary Learning Centre (PLC) is continuous running in 5 location of different villages of gamharia Block. 205 student were getting benefit from these centre in which 125 are female.
- Pre-Matric coaching (PMC) is continuous running in 2 location of Gauri and Tetuladanga villages in which 24 student written Matriculation examination. Result awaited.
- 5 NRBC (Non-residential bridge course) started in gamharia block with objective to bridging the drop out student that engage in slag picker and other activity and enrolled them to regular schooling.150 student get benefited from these centre.
- 6 girls selected in Super30 who are supported for their education expenses and provided laptop enrolled for online classes.14 girls currently getting benefit under super30 project.
- Toilet Block for male and female constructed in Dugdha middle school.
- Primary School and Anganwadi of Bara Gamharia and Dugdha repaired and Bala painting work in Anganwadi completed











Public Health

- Mobile public health (mPHU) running in 4 location of gamharia that provide basic curative disease with diagnosis of Blood Pressure ,Sugar etc .383 patients get benefited till march'25
- 22 Eye camp concluded in fy25 in which 570 person get screen and 119 were find having mature cataract that surgery need to perform.40 patient surgery completed.





ΤΛΤΛ



A Stand Hard



Livelihood- Agriculture

- Two capacity building training programme on livestock management and modern breed improvement practises in Kolabira Agriculture Centre organised.
- An orientation session on Vegetable Marketing & Supply Chain with farmers of Sapra Cluster by Kolabira center.
- > Training and exposure on exotic fruite production provided to farmer in Khunti district.
- 10 cow support provided to farmers in agri and allied initiative to strengthen dairy development within the village.
- Agri equipment such as mini Power tiller, Chaff cutter machine , HDPE pipe for irrigation purpose provided to farmers









Livelihood- Skill Development

- Kaushalyan: 100 students completed the 45 days crash course of computer learning program.
- 3 girls from jhurkuli completed hospitality course in which 2 accept placement of Hotel Cruse, Adityapur.
- A training program for stitching provided to woman belongs to marginalize family through partner agency M/s Arka Jain University.
- 40 student were mobilize for Tata Strive business loan in which 2 were selected in final, fund disbursement still pending.
- Sing Baaja distributed to youth club having 18 member to save culture and arrange alternate livelihood opportunies.
- Chhau Dance material distributed to the Bara Gamharia Kala Mandir.





TATA

Sports

- Training in Archery feeder centre of TSF is continuing. M/S Sarna Umul Pinderabera, a women entrepreneur group created for Nutrition supply to 25 trainees.
- Strength of the feeder centre increased from 24 to 59 till March '25.
- Panchayat level Girls Football tournament organized at Saldih village, 8 team participated with 112 girls of different villages of Gamharia, Team of Pinderabera won the trophy beating Women's Power Srirampur.
- U-16 football tournament for boys organized in Nimdih of Bara Gamharia in which 10 team participated. In final Tetuldanga team won beating the Nimdih team..







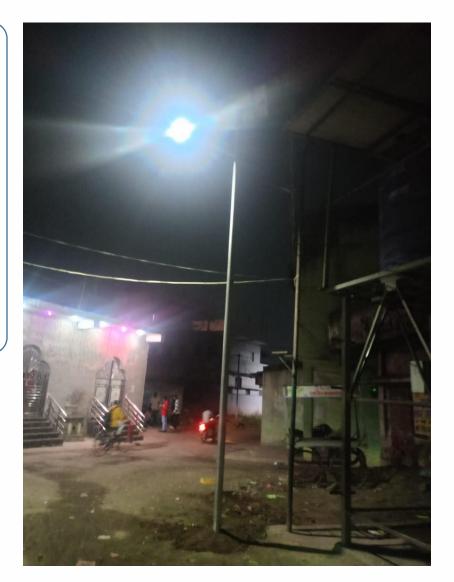






Infrastructure development

- A youth club (30*30 Feet) construction by Tata Steel Foundation in Jhurkuli village.
- 20 Solar Street light installed in different tola of Chhota gamharia panchayat. It reduce dependence on electricity and provide safety during nighttime to people moving for their work.
- > Repairing of Chhota gamharia community centre completed.
- > Repairing of panchayat bhavan of dugdha panchayat completed.



SN.	Condition	Compliance status/Action taken
1	Coke Oven Plant: To meet the parameters PLD (% leaking doors), PLL (% leaking lids), PLO (% leaking off take) of the notified standards under EPA. To rebuild at least 40% of the coke oven batteries* in next 10 years by December 2012.	Our Coke Oven Plant is non-recovery type coke oven and this requirement is not applicable.
2	Steel Melting Shop: Steel Melting Shop Fugitive Emission Status To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de- dusting facilities).	Dedicated secondary Fume Extractive System are installed in EAF & LRF and fugitive emissions are significantly reduced. To measure the stack emission dedicated online dust Monitors are installed in the respective stacks and it's data uploading to JSPCB & CPCB Server on real time basis.
3	Blast Furnace - Direct inject of reducing agents in blast furnace	Pulverized Coal injection (PCI) system installed and commissioned along with bag filter as an air pollution control measures (bag filter with stack) to reduce fugitive emission during direct injection.
4	 Solid Waste / Hazardous Waste Management: Utilization of Steel Melting Shop (SMS) / Blast Furnace (BF) slag as per the following. By 2004 – 70% By 2006 – 80% and By 2007 – 100% Hazardous Waste: - Charge of tar sludge / ETP sludge to coke oven by June 2003 Inventorization of Hazardous waste as per Hazardous waste (M & H) Rules, 1989 as amended in 2000 and implementation of the rules by December 2003. (Tar sludge, acid sludge, waste lubricating oil and type fuel fall in the category of HZ). 	 Solid waste generated within the plant are segregated and most of the waste are recycled back in process. (i) Rolling mill scrap is partially recycled as steel scrap in SMS and partially sold as scrap to outside vendor. (ii) Mill scale is used in sinter making process at Sinter Plant. (iii) FES Dust from SMS is being used in sinter plant. (iv) Flue Dust from blast furnace, Bag Filter Dust and wet GCP dust is also used in Sinter plant. (v) 100% Blast furnace slag is sold to open market. (Used by major cement industry). (vi) Metal is recovered from slag of arc furnace and recycled. (vii) Used Oil / Waste Oil / Spent oil is collected and stored in designated place and sold to authorized recycler.

		Hazardous Waste: Our coke oven plant is non-recovery type and hence Tar sludge & ETP sludge is not applicable. The waste oil and other hazardous wastes generated is being disposed to authorized vendors as per the Hazardous Waste Management Rule 2016.
5	Water Conservation / Water Pollution - To reduce specific water consumption to 5 m3/ t for long products and 8 m3 / t for flat products by December 2005.	We maintained Zero Effluent Discharge. There are only evaporation losses. We are presently manufacturing only long products and our specific water consumption is well within the prescribed limit
6	Installation of continuous stack monitoring	Stack monitoring facilities are provided at all major stacks. 7 online gas analysers and 23 online dust monitors are installed covering all major stacks for monitoring of emission from the stacks as per CTO condition and the real time data of PM, SO2 & NOx are transmitted to JSPCB / CPCB servers. Apart from the above, manual monitoring is being conducted by a NABL accredited external laboratory on monthly basis. The monitoring results are well within the permissible limits.
7	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to CPCB / SPCB every three months.	The pollution control equipments are being operated efficiently and proper records are maintained for running hours, failure time and efficiency. Any failure leads to APC is resulted exceedance alarm from CPCB server and justification along with corrective action reports are being submitted to RTDMS Portal.
8	ToimplementtherecommendationsofLifeCycleAssessment (LCA)study sponsoredby MoEFby December 2003.	Being Complied

9 The industry will initiate the steps	• Our BF gas pressure (plant
to adopt the following clean	capacity is 0.65 MTPA only) is not
technologies measures to improve	adequate to install TRT.
the performance of industry	• Our coke oven plant is non-
towards production, energy and	±
environment.	recovery type and hence not
	applicable.
	• The de-dusting system
• Energy recovery of top Blast	commissioned at MBF-I & II cast
Furnace (BF) gas.	house covering tap holes,
• Use of Tar- free runner linings.	runners, skimmers ladles and
• De- dusting of Cast house at tap	charging points.
	0 01
holes, runners, skimmers ladle	• Water sprinkling system, Dry &
and charging points.	Wet fog systems and the
Suppression of fugitive	compressed air are used for
emissions using nitrogen gas or	suppression of fugitive emissions
other inert gas	at RMHs area.
• To study the possibility of slag	• Since we are purchasing raw
and fly ash transportation back	materials from outside sources, it
to the abandoned mines, to the	is not applicable.
abandoned mines, to fill up the	• The waste containing flux &
cavities through empty railway	ferrous waste is utilized to the
wagons while they return back	
	maximum extent possible in the
to the mines and its	Pellet & Sinter plant. 100 % of
implementation.	waste containing flux and ferrous
• Processing of the waste	is utilized in the pellet & Sinter
containing flux & ferrous wastes	plant.
through waste recycling plant.	Rainwater harvesting structures
• To implement rainwater	are created within the premises to
harvesting	harvest rainwater. Open
Reduction Green House Gases	reservoirs within the plant also act
	as sink for rainwater during rainy
by:	season the water of which is used
1. Reduction in power	
consumption	in the plant.
2. Use of by –products gases	• Various initiatives and measures
for power generation	are being taken to reduce the GHG
3. Promotion of Energy	emissions and present level of
Optimisation technology	GHG emission is 4.44 tCO2e/tcs.
including energy/ audit	Major focus are being given to
	maximise the waste heat
• To set targets for Resource	utilisation, Reduction of Coal /
Conservation such as Raw	Coke rate in BF & DRI Process,
material, energy and water	Maximum utilization of Char,
consumption to match	resource conservation. To reduce
International Standards.	the power consumption VFDs are
• Up-gradation in the monitoring	being installed wherever possible.
and analysis facilities for air and	LED lights are installed to replace
water pollution. Also, to impart	the sodium vapor lamps and many
elaborate training to the	Kaizens are implemented to
manpower so that realistic data	conserve power. By product BF
is obtained in the environmental	gas is being used as fuel in Power
monitoring laboratories.	Plant, Mills, Sinter Production
	Process.

•	To Improve overal housekeeping.	 A separate Environment cell is already available and need based training is being imparted to the monitoring personnels as and when required. Mechanized housekeeping is introduced to done within the plant. Fixed and mobile sprinklers are deployed at required locations for suppression of fugitive dust.
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TATA STEEL @WeAlsoMakeTomorrow	Gamharia 23 January 2025	<u>ሱ</u>	(()		ТАТА	
	 Corporate » Our Organisation » Environment » Environment Compliance Reports Monthly Report on Ash Generation and Utilization - Dec'24 Gamharia 02 January 2025 			POF		CANCEL	
	Half Yearly EC Compliance Report of Straight Bar & Wire Mill Division-1 (Apr'24 to Sept'24)			Por		EXPLOR MORE	E
	Half Yearly EC Compliance Report of Tata Steel Limited, Gamharia (Apr'24 to Sept'24) Gamharia 04 December 2024			For			

Annexure - 11

Your (Half Yearly Compliance Report) has been Submitted with following details				
Proposal No SIA/JH/IND1/472307/2024				
Compliance ID	111969668			
Compliance Number(For Tracking) EC/M/COMPLIANCE/111969668/2024				
Reporting Year 2024				
Reporting Period01 Dec(01 Apr - 30 Sep)				
Submission Date 28-11-2024				
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 MISHRA, JHARKHAND with Notification to Project Proponent.				

Environment Audit Statement FORM – V (See rule 14 of The Environment Protection Act, 1986) Environmental Audit Report for the financial year ending the 31st March 2024.

	PART – A				
	General Inform	ation			
1.	Name & Address of the owner/occupier of the industry, operation or process	TV Narendran CEO & MD			
		Tata Steel Limited, Gamharia Straight Bar & Wire Mill Division, Unit-1 Phase-IV, Adityapur industrial Area, Gamharia, Dist- Saraikela Kharsawan, Jharkhand, India			
2.	Industry Category Primary (STC Code), Secondary (STC Code)	Orange			
3.	Production capacity-Units	Installed capacity - 425 MT/Day			
4.	Year of establishment	1978			
5.	Date of last statement	18.09.2023			

	PART – B		
Wa	ter & Raw material	Consumption	
B-1: Total Water Consumption (n	n ³ /d)		
		Total Water Cons	sumption (m ³ /d)
Category		During the curre	nt financial year
Process (m ³ /d)			
Cooling (m ³ /d)		66.	12
Domestic (m³/d)			
B-2: Water Consumption per unit	t of the product (m ³	/MT)	
		Process Water Cons	umption per unit of
Name of the Brody	. etc	product	(m³/MT)
Name of the Products		During the previous	During the current
		financial year	financial year
Straight Bar	0.529 0.215		0.215
B-3 : Raw Material Consumption			
Name of Raw materials	Name of	Raw material Consu	Imption per unit of
	Products	product (MT/MT)	
		During the previous	During the current
		financial year	financial year
Billet	Straight Bar	1.041	1.04

PART – C	
Pollution discharged to Environment per unit of Output	
(Parameters as specified in the Consent issued)	
C-1: Water Pollution	

Pollutant Parameter	Quantity discharge (kg/d)	Concentration discharge (mg/l)	Percentage of variation from prescribed standards with reasons		
-	Nil	Nil	-		
It is to be noted that since we are maintaining zero discharge of effluent hence the above discharge load is also zero.					
Pollutant ParameterQuantityConcentrationPercentage of variatdischargedischargedischargefrom prescribed(kg/d)(mg/Nm³)standards with reas					
Stack emission	17.9	23.74	None		

PART – I)			
Hazardous W	astes			
(As specified under The Hazardous Waste Managen	nent, Handling & Transbo	undary Movement		
Rules, 201	.6)			
D-1 : Generation from Process				
Name	Total Quant	ity (MT/KL)		
	During the previous	During the current		
	financial year	financial year		
1. Used Oil / Spent Oil	Nil	4.84 KL		
2. Waste or Residue Containing Oil (cotton Waste)	0.32 Ton	0.14 Ton		
3. Discarded Empty barrels/ containers/ liners	Nil	Nil		
contaminated with hazardous chemicals / wastes	INII	INII		
D-2 : Generation from Pollution Control Facilities				
Name	Name Total Quantity (MT/KL)			
	During the previous	During the current		
	financial year	financial year		
	N/A	N/A		

PART – E					
Solid Wastes	Solid Wastes				
E-1 : Generation from Process					
Name Total Quantity (MT)					
During the previous During the current					
	financial year	financial year			
Mill Scale 717.34 1745					
Reutilized and reuse, sold and disposal: Mill scale is being used in-house at sinter plant and partially					
sold to outside vendors.					

PART – F						
Please specify the characterizations (in terms of composition in quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both this categories of wastes						
F-1 : Hazardous Wastes						
Description	Description Composition Method of disposal					
Used Oil	Poly aromatic hydrocarbon	Disposal to Authorized Recycler approved by JSPCB				

PART – G Impact of pollution control measure taken on conservation of natural resources and cost of production

Water sprinkles are installed to control the fugitive emission during vehicle movement

PART – H Additional measures/investment proposal (future plan) for environmental protection including abatement of pollution, prevention of pollution

None

PART – I

Any other particulars undertaken for improving the quality of environment

Enhancing green coverage by creating gardens and undertaking mass tree plantation in and around the plant.

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V. Karthikeyan Head - Environment & Sustainability For Tata Steel Limited