

Ref. No. - TSG/EC/SBWM-1/2025-26/Nov-25/01

18/11/2025

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 April 2025 to September 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 April 2025 to September 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

Ravi Ranjan Prasoon Head -Environment TSG

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Cc:

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

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

Issue date: 05.11.2018

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.	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.	Consent to Operate were obtained from Jharkhand State Pollution Control Boar vide letter No. JSPCB/HO/RNC/CTF 13774242/2022/465 dt. 24/10/2022 and 13774242/2022/465 dt.					

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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.					
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					

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

	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.						
IV. Wa	ter quality monitoring and preservation						

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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.	Complied. The quantity of sewage generation is too low for establishing STP. Therefore, domestic wastewater is treated through septic tank - soak pit arrangement.
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) 31st 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.

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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. Noi	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. En	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.	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. W	aste Management					
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EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

36	I. Used refractories shall be recycled as far as possible.	Complied. Used refractories are recycled through 3 rd Party vendor on regular basis.					
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 was (mill scale) is very negligible whereby briquetting will not be feasible. However, the collected mill scale, and other waste as 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. G	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.					

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

IX. Pu	blic hearing and human health issues						
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					

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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 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.	Complied, the Company has a well-established environmental policy duly approved by CEO & MD. Environment Policy is attached as Annexure-8						
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.	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						

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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.					
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 sixmonthly 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-11					

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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 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

EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262

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

Amibent Air Quality Monitoring

SN.	Sampling Location	Report No.	Sampling on	SO2 (μg/m3)	NO2 (μg/m3)	PM10 (μg/m3)	PM2.5 (μg/m3)	CO (mg/m3)	Ozone (µg/m3)	Lead (µg/m3)	Ammonia (µg/m3)	Benzene (µg/m3)	Benzo(a)pyrene (ng/m3)	Arsenic (ng/m3)	Nickel (ng/m3)
1	SBWM Near QA Building	RN-240715001A05	04-04-2025	26.5	51.8	77.7	49.5	BDL(MDL 0.1)	26.6	0.4	38.2	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
2	SBWM Near QA Building	RN-240715001A11	17-04-2025	27.8	48.1	93.2	40.2	BDL(MDL 0.1)	29.2	0.4	46.7	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
3	SBWM Unit-2 (Near Main Gate)	RN-240715001A06	04-04-2025	29.1	40.8	78.1	43.9	BDL(MDL 0.1)	30.5	0.6	42.3	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
4	SBWM Unit-2 (Near Main Gate)	RN-240715001A12	17-04-2025	28.4	42.1	85.6	45.7	BDL(MDL 0.1)	28.4	0.5	44.8	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
5	SBWM Near QA Building	RN-240715001A05	31-05-2025	28.9	56.4	73.0	47.4	BDL(MDL 0.1)	29.1	0.3	41.5	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
6	SBWM Unit-2 (Near Main Gate)	RN-240715001A06	31-05-2025	31.5	47.2	73.4	41.8	BDL(MDL 0.1)	33.0	0.5	45.6	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
7	SBWM Near QA Building	RN-240715001A05	10.06.2025	24.7	50.0	64.5	40.5	BDL(MDL 0.1)	16.6	0.3	34.0	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
8	SBWM Unit-2 (Near Main Gate)	RN-240715001A06	10.06.2025	26.7	40.6	66.5	34.4	BDL(MDL 0.1)	20.1	0.4	38.4	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
9	SBWM Near QA Building	RN-240715001A05	29.07.2025	22.5	46.7	61.1	28.7	BDL(MDL 0.1)	18.1	0.4	31.6	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
10	SBWM Unit-2 (Near Main Gate)	RN-240715001A06	29.07.2025	24.1	37.0	62.9	29.6	BDL(MDL 0.1)	22.0	0.5	35.6	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
11	SBWM Near QA Building	RN-250303003A01	18.08.2025	20.7	44.3	57.9	26.6	BDL(MDL 0.1)	17.2	0.4	28.9	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
12	SBWM Unit-2 (Near Main Gate)	RN-250303003A02	18.08.2025	22.3	34.6	59.1	27.2	BDL(MDL 0.1)	21.1	0.5	32.9	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
13	SBWM Near QA Building	RN-250303003A05	19.09.2025	23.1	48.5	62.7	28.8	BDL(MDL 0.1)	19.8	0.4	31.5	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)
14	SBWM Unit-2 (Near Main Gate)	RN-250303003A06	19.09.2025	25.4	53.3	64.7	29.8	BDL(MDL 0.1)	23.3	0.5	34.7	BDL (MDL- 0.5)	BDL (MDL- 0.01)	BDL (MDL- 2)	BDL (MDL- 4)



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

4001

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TC-16135

TEST REPORT

ULR No.:	Т	C	1	6	1	3	5	2	5	0	0	0	0	0	0	9	9	0
Discipline: Chemical Group: Atmosphe								z hor										
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Report Issue Date: 23-09-2025									Test R)			
Sample ID: 250920AP12001									Sampl	e Desc	criptio	n: Ar	nbient	Air				
Challan No./P.O	. No.:	30001	79897	7/J02					Challa	n No.	P.No.	Date	e: 03-0	3-2025	5			
Name and Conta	act De	tails o	f Cust	tomer:	Kish	or Pra	manik	(9905	534001	2)								
			E-mail	Id- kis	shor.p	raman	ik1@ta	tastee	l.com									
]	M/s Ta	ata Stee	el Lin	nited,												
			amah	aria Ph	ase-V	, Adit	yapur I	ndustr	ial Are	a, Sera	aikela-	Khars	awan,	Jharkh	and-83	32108		
Information obt	ained	from	custor	ner (if	any):	N/A												
Type of Industry	y: Iron	& Ste	el						Condition of Sample: Fit for Test									
Sampling Protoc	col: I.S	5 5 1 8 2							Sampling Date: 19-09-2025 to 20-09-2025									
Protocol: CPCB	Guide	line (N	IAAQ	MS/36	/2012	2-13) &	IS Me	thod :	5182 Se	eries								
Sampling Locat	Sampling Location: SBM NEAR QA BUILDING UNIT – 1																	
Field Meteorological Information A. Temp. (°C): 28 R.I								R.H	. (%):	74	W.C	: Sei	mi-Clo	udy	W.D.:	SW to	o NE	
Location of perf								Labo	ratory,	Ranch	i						15	18
Sample Receiving Date: 20-09-2025 Testing Started:							ted: 2	20-09-2	025		Te	sting l	Ended	: 23-09	9-2025	;		
Took Doculto																		

----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	$\mu g/m^3$	100	62.7
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	μg/m ³	60	28.8
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	$\mu g/m^3$	80	23.1
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	$\mu g/m^3$	80	48.5
5.	Ammonia (NH ₃)	IS 5182 Part 25	$\mu g/m^3$	400	31.5
6.	Ozone (O ₃)	IS 5182 Part 09	$\mu g/m^3$	180	19.8
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m ³	10	BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	μg/m ³	1.0	0.4
9.	Nickel (Ni)	IS 5182 Part 26	ng/m ³		BDL (MDL-4)

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	National Ambient Air Quality Standards (NAAQS), 2009.						
Remark	Sample Comply with prescribed specification.						
Opinion & Interpretation	Not Practiced.						
Tested by	Akanksha Sourabh						
Sample Drawn by	Rahul Singh & Team						
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 						

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In case of feedback/ complaints, please send an email at sm.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	Tachrical Manage & Director
is issued by the Director of the Organization.	Technical Manager Parchi Director



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Ranchi-834002, Jharkhand, India

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





Discipline: Chemical	Group: Atmosp		Sub-Group: Ambient Air				
Report Issue Date: 23-09-2025		Test Report	No.: RN-250303003A05				
Sample ID: 250920AP12001		Sample Desc	cription: Ambient Air				
Challan No./P.O. No.: 3000179897/J02		Challan No.	/ P.No. Date: 03-03-2025				
Name and Contact Details of Customer: Kis	hor Pramanik (9	9905340012)					
E-mail Id- kishor.		steel.com					
M/s Tata Steel Li							
Gamaharia Phase-V, Adityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108							
Information obtained from customer (if any): N/A							
Type of Industry: Iron & Steel			Condition of Sample: Fit for Test				
Sampling Protocol: I.S 5182	=		Sampling Date: 19-09-2025 to 20-09-2025				
Protocol: CPCB Guideline (NAAQMS/36/201	2-13) & IS Meth	od 5182 Series					
Sampling Location: SBM NEAR QA BUILD	ING UNIT – 1						
Field Meteorological Information A. Temp	. (°C): 28	R.H. (%): 74	W.C.: Semi-Cloudy W.D.: SW to NE				
Location of performance of the Laboratory	Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi						
Sample Receiving Date: 20-09-2025	Testing Starte	d: 20-09-2025	Testing Ended: 23-09-2025				
Test Results							

Sl. No.	Parameters	Test Method	Unit	Limits	Result
10.	Benzene (C ₆ H ₆)	IS 5182 Part 11: 2006	$\mu g/m^3$		BDL (MDL- 0.5)
11.	Benzo (a) Pyrene (Bap) Particulate Phase Only	IS 5182 Part 12: 2004	ng/m³		BDL (MDL0.01)
12.	Carbon Monoxide	IEM/SOP/Air-01:2022	mg/m ³		BDL (MDL 0.1)

Env. Condition of Lab.	Laboratory is maintaining Temperature $27\pm2^{\circ}C$ 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	National Ambient Air Quality Standards (NAAQS), 2009.						
Remark	Sample Comply with prescribed specification.						
Opinion & Interpretation	Not Practiced.						
Tested by	Akanksha Sourabh						
Sample Drawn by	Rahul Singh & Team						
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 						

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6. In case of feedback/ complaints, please send an email at sm.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 is issued by the Director of the Organization.	Technical Manager	Director



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4001

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

TC-16135

TEST REPORT

ULR No.:	T	С	1	6	1	3	5	2	5	0	0	0	0	0	0	9	9	1
Discipline: Chemical Group: Atmosph													Sub-C			ient Ai	r	
Report Issue Da	te: 23-	09-202	25						Test Report No.: RN-250303003A0									
Sample ID: 250920AP12002									Sampl	e Desc	riptio	n: Ar	nbient	Air				
Challan No./P.O	. No.:	30001	79897	/J02					Challa	n No.	P.No	Date	e: 03-03	3-2025	5			
Name and Conta	act De	tails of	Cust	omer:	Kish	or Prai	mani	k (990	534001	2)								
		E	E-mail	Id- kis	shor.p	ramani	k1@1	tatastee	el.com									
				ta Stee		,												
		C	amah	aria Pł	nase-V	/, Adity	apur	Indust	trial Ar	ea, Ser	aikela	-Khar	sawan,	Jhark	hand-8	32108		
Information obta	ained	from c	uston	ner (if	any):	N/A												
Type of Industry	: Iron	& Ste	el						Condition of Sample: Fit for Test									
Sampling Protoc	col: I.S	5182							Sampling Date: 19-09-2025 to 20-09-2025									
Protocol: CPCB	Guide	line (N	AAQ	MS/36	/2012	(-13) &	IS M	lethod	5182 S	eries								
Sampling Locati	Sampling Location: SBWM NEAR MAIN GATE UNIT-2																	
Field Meteorolog	Field Meteorological Information A. Temp. (°C): 28 R.H. (%): 74 W.C.: Semi-Cloudy W.D.: SW to NE																	
Location of perf	Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																	
Sample Receiving Date: 20-09-2025 Testing Started:							arted:	20-09-2	2025		Te	esting F	Ended	: 23-09	9-2025			

----Test Results----

		2000 2000 4110			
Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	μg/m ³	100	64.7
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	μg/m ³	60	29.8
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	μg/m ³	80	25.4
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	μg/m ³	80	53.3
5.	Ammonia (NH ₃)	IS 5182 Part 25	μg/m ³	400	34.7
6.	Ozone (O ₃)	IS 5182 Part 09	μg/m ³	180	23.3
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m ³		BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	μg/ m ³	1.0	0.5
9.	Nickel (Ni)	IS 5182 Part 26	ng/m³		BDL (MDL-4)

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	National Ambient Air Quality Standards (NAAQS), 2009.							
Remark	Sample Comply with prescribed specification.							
Opinion & Interpretation	Not Practiced.							
Tested by	Akanksha Sourabh							
Sample Drawn by	Rahul Singh & Team							
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 							

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1	4. Any complaint about this report should be communicated in writing within 7 days of its issue	1 0 1VVI 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
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1	On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report	Technical Manager Agricult Director						
	is issued by the Director of the Organization.	Technical Manager American Director						



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

TEST REPORT

Discipline: Chemical	Group: Atmosph		Sub-Group: Ambient Air			
Report Issue Date: 23-09-2025		Test Report No.: RN-250303003A0				
Sample ID: 250920AP12002		Sample Des	cription: Ambient Air			
Challan No./P.O. No.: 3000179897/J02		Challan No.	/ P.No. Date: 03-03-2025			
Name and Contact Details of Customer:	Kishor Pramanik (99	05340012)				
E-mail Id- kish	or.pramanik1@tataste	eel.com				
M/s Tata Steel	Limited,					
Gamaharia Pha	se-V, Adityapur Indu	strial Area, Ser	raikela-Kharsawan, Jharkhand-832108			
Information obtained from customer (if a	ny): N/A					
Type of Industry: Iron & Steel		Condition of Sample: Fit for Test				
Sampling Protocol: I.S 5182		Sampling Date: 19-09-2025 to 20-09-2025				
Protocol: CPCB Guideline (NAAQMS/36/2	012-13) & IS Method	15182 Series				
Sampling Location: SBWM NEAR MAIN	GATE UNIT-2		Assume the second secon			
Field Meteorological Information A. Ter	np. (°C): 28 R.H	I. (%): 74	W.C.: Semi-Cloudy W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi						
Sample Receiving Date: 20-09-2025	Testing Started	d: 20-09-2025 Testing Ended: 23-09-2025				
	T-4 D					

----Test Results----

Sl. No.	Parameters	Test Method	Unit	Limits	Result
10.	Benzene (C ₆ H ₆)	IS 5182 Part 11: 2006	$\mu g/m^3$		BDL (MDL- 0.5)
11.	Benzo (a) Pyrene (Bap) Particulate Phase Only	IS 5182 Part 12: 2004	ng/m³		BDL (MDL0.01)
12.	Carbon Monoxide	IEM/SOP/Air-01:2022	mg/m ³		BDL (MDL 0.1)

Env. Cond <mark>itio</mark> n 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	National Ambient Air Quality Standards (NAAQS), 2009.						
Remark	Sample Comply with prescribed specification.						
Opinion & Interpretation	Not Practiced.						
Tested by	Akanksha Sourabh						
Sample Drawn by	Rahul Singh & Team						
 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if no mentioned. Results from external providers are not used if not specified. 							

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Reviewed by

Authorized Signatory

(Taugeer Ahmad)

(pr. S. C. Jain)

Technical Manager Ranch

Director

Ambient Noise Monitoring Report

Sampling on	Plant North Side Boundary		Plant South Side Boundary		Plant East Side Boundary		Plant West Side Boundary		SBWM Near QA Building.		SBWM Unit-2 (Near Main Gate)	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Apr'25	74.1	63.2	72.4	62.4	71.9	65.3	69.6	67.7	70.5	63.9	73.1	66.8
May'25	73.4	62.4	70.4	64.7	73.5	62.2	68.8	60.8	72.2	60.5	69.9	61.2
Jun'25	71.1	59.8	67.9	61.9	71.2	59.6	66.3	58.0	69.4	57.2	67.5	58.4
July'25	69.3	58.0	66.1	60.1	66.1	60.1	64.5	56.2	67.6	55.4	65.7	56.6
Apr'26	67.5	56.2	64.3	58.3	67.6	56.0	62.7	54.4	65.8	53.6	63.9	54.8
May'26	70.9	59.0	67.6	60.7	71.2	58.8	66.0	56.8	69.2	56.4	67.4	57.2



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

TEST REPORT

ULR No.: T C 1 6 1 3	5 5 2 5 0 0 0 0 0 0 9 9	6				
Discipline: Chemical Group: Atmospheric	Pollution Sub-Group: Ambient Noise Level (Excluding Vibration	ons)				
Report Issue Date: 23-09-2025	Test Report No.: RN-250303003N5					
Sample ID: 250920AP13001	Sample Description: Ambient Noise Level					
Challan No./P.O. No.: 3000179897/J02	Challan No./ P.No. Date: 03-03-2025					
Name and Contact Details of Customer: Kishor P	ramanik (9905340012)					
E-mail Id- kishor.prama	anik1@tatasteel.com					
M/s Tata Steel Limited,	,					
Gamaharia Phase-V, Ad	lityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108					
Information obtained from customer (if any): N/A	4					
Type of Industry: Iron & Steel	Condition of Sample: Fit for Test					
Sampling Protocol: I.S 5182	Sampling Date: 19-09-2025 to 20-09-2025					
Protocol: CPCB Guideline & IS Method 9989:1981						
Sampling Location: SBM NEAR QA BUILDING U	JNIT-1					
Field Meteorological Information A. Temp. (°C)	28 R.H. (%): 74 W.C. : Semi-Cloudy W.D. : SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi						
Sample Receiving Date: 20-09-2025 Tes	sting Started: 20-09-2025 Testing Ended: 23-09-2025					

----Test Results----

Sl.	Parameters	Test Method	Unit	Res	ults	Norms**
No.	rarameters	No.	Onit	Day Time	Night Time	Norms
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	69.2	56.4	Day - 75 Night - 70

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- 5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- 6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab. Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 9 testing area as per IS 196:1966(C).				
Abbreviation MDL: Minimum Detection Limit, BDL: Below Detection Limit				
Norms** is Specified National Ambient Air Quality Standards (NAAQS), 2009.				
Remark Sample Comply with prescribed specification.				
Opinion & Interpretation Not Practiced.				
Tested by	Akanksha Sourabh			
Sample Drawn by	Rahul Singh & Team			
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 			

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

(Tauqeer Ahmad) Technical Manager

Reviewed by

Jain)

me Authorized Signatory

Director



III D No.

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TEST REPORT

TC-16135

ULR No.:	1 6 1	3	5 2	5	0	0	0 0	0	0	9	9	7
Discipline: Chemical Group: Atmospheric Pollution					Groui	: Amb	ient Noise	Level	(Exclud	ling Vi	ibratic	ins)
Report Issue Date: 23-09-2025					Sub-Group: Ambient Noise Level (Excluding Vibrations) Test Report No.: RN-250303003N6							
Sample ID: 250920AP13002							: Ambien					
Challan No./P.O. No.: 30001798	397/J02						Date: 03-					
Name and Contact Details of C	ustomer: Kish	or Pram	anik (990	534001	2)	-				***************************************		
E-m	ail Id- kishor.	oramanik	1@tatastee	el.com	-)							
	Tata Steel Lin											
Gam	aharia Phase-V	V, Aditya	pur Indust	rial Are	a, Sera	ikela-K	Charsawan	. Jharkl	hand-83	32108		
Information obtained from cust	omer (if any)	: N/A						,		2100		
Type of Industry: Iron & Steel				Condition of Sample: Fit for Test								
Sampling Protocol: I.S 5182		12		Sampling Date: 19-09-2025 to 20-09-2025								
Protocol: CPCB Guideline & IS	Method 9989:	1981	36-25									
Sampling Location: SBWM NE.	AR MAIN GA	TE UNIT	T-2									
Field Meteorological Information	on A. Temp.	(°C): 28	R.H.	(%): 74	4	W.C.:	Semi-Clo	oudy	W.D.:	SW to	NE	
Location of performance of the	Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi											
Sample Receiving Date: 20-09-2	Sample Receiving Date: 20-09-2025 Testing Started:						Testing	Ended	: 23-09	-2025		
The Paris of the P												

----Test Results----

SI.	Parameters	Test Method	Unit	Re	sults	Norms**
No.		No.	Cinc	Day Time	Night Time	Norms
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	67.4	57.2	Day - 75 Night - 70

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

 5. A "decibel" is a unit in which reise is recovered "A" in dB(A) Let the scale A which is relatable to human hearing.
- 5. A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- 6. Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab. Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % testing area as per IS 196:1966(C).				
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit			
Norms** is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000			
Remark Sample Comply with prescribed specification.				
Opinion & Interpretation	Not Practiced.			
Tested by	Akanksha Sourabh			
Sample Drawn by	Rahul Singh & Team			
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 			

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Stack Emission Monitoring Report

S.No	Unit	Stack Attached to	Report No.	Sampling on	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	Reheating Furnace	RN-240715001 S16	21.04.2025	319	8.9	27761	22.3	62.7	124.6
2	SBWM	Reheating Furnace	RN-240715001S 21	31.05.2025	360	9.5	27625	21.6	68.6	131.0
3	SBWM	Reheating Furnace	RN-240715001 S04	10.06.2025	356	8.9	26128	19.2	65.5	124.3
4	SBWM	Reheating Furnace	RN-240715001 S26	29.07.2025	358	9.4	27281	21.2	60.8	129.1
5	SBWM	Reheating Furnace	RN-240715001 S02	18.08.2025	340	12.1	36331	23.1	54.1	112.4
6	SBWM	Reheating Furnace	RN-250303003 S14	19.09.2025	360	8.9	25879	22.6	58.7	122.2



Sample Receiving Date: 30-07-2025

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



TC-16135

Testing Ended: 01-08-2025

TEST REPORT

ULR No.: T C 1 6 1 3 5 2	5 0 0 0 0 0 0 6 4 6							
Discipline: Chemical Group: Atmosph	eric Pollution Sub-Group: Stack Emission							
Report Issue Date: 01-08-2025	Test Report No.: RN-240715001S26							
Sample ID: 250730AP10001	Sample Description: Stack Emission							
Challan No./P.O. No.: 3000173714/J02	Challan No./P.No. Date: 15-07-2024							
Name and Contact Details of Customer: Kishor Pramanik (9905340012)								
E-mail Id- kishor.pramanik1@tatast	eel.com							
M/s Tata Steel Limited,								
(Formerly Tata Steel Long Products	Limited),							
Gamaharia Phase-V, Adityapur Indu	strial Area, Seraikela-Kharsawan, Jharkhand-832108							
Type of Industry: Iron & Steel	Condition of Sample: Fit For Test							
Sampling Protocol: IS:11255; 2009	Sampling Date: 29-07-2025(10:00 am - 10:56 am)							
Protocol: CPCB Guideline (LATS/80/2013-14) & Description (LATS/80/2013-14) & Description (LATS/80/2013-14)	d 11255 Series							
Sampling Location: SBWM (Unit-1)								
Field Meteorological Information A. Temp. (°C): 32 R.H	I. (%): 58 W.C.: Partly Sunny W.D.: SE to NW							
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi								

Testing Started: 30-07-2025 Information obtained from Customer

Stack Identification	Single	Stack Height from Ground Level (m)	34
Emission Due to	Reheating Furnace	Port Hole Height from Ground Level (m)	8.9
Plat Form	Available	Inner Dimension of Stack (m)	1.5
Stack Description	SBWM (Unit-1)	Type of Fuel Used	LDO
Shape of Stack	Circular	Production Capacity	
Sampling Port	Yes	Pollution Control Device (if any)	N/A

Flue Gas Temperature (°C): 358 | Flue Gas Velocity (m/s):9.4 | Flue Gas Volumetric Flow Rate (Nm³/hr): 27281

----Test Result----

SI. NO.	Parameters	Test Methods	Unit	Norms**	Result
1.	Particulates Matter (PM)	IS 11255 (Part-1)	mg/Nm ³		21.2
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	mg/Nm ³		60.8
3.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	mg/Nm ³	-	129.1
4.	Carbon Dioxide (CO ₂)	IS 13270:1992	% v/v		16
5.	Carbon Monoxide (CO)	IS 13270:1992	ppm		356
6.	Oxygen (O ₂)	IS 13270:1992	% v/v		20

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°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	As per the IS Method 11255 Series.							
Remark	Sample Comply with prescribed specification.							
Opinion & Interpretation	Not Practiced.							
Tested by	Akanksha Sourabh							
Sample Drawn by	Rahul Singh & Team							
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 							

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5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	1/8/
6. In case of feedback/ complaints, please send an email at sm.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 is issued by the Director of the Organization.	Technical Manager Director

Annexure - 3

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT



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



TEST REPORT

TC-16135

ULR No.:	T	C	1	6	1	3	5	2	5	0	0	0	0	0	0	6	1	1
Discipline: Chem	Discipline: Chemical Group: Water												Sub-C	Group	: Grou	nd wat	er	
Report Issue Dat	Report Issue Date: 16-07-2025										Test Report No.: RN-230714001GW1							
Sample ID: 250712WA01001									Sampl	e Desc	riptio	n: Gr	ound \	Water	(Bore	well)		
Challan No./P.O	Challan No./P.O. No.: 3000173714/J02								Challa	n No./	P.No	. Date	e: 15-0'	7-2024	1			
Name and Contact Details of Customer: Kishor Pramanik (9905340012)																		
E-mail Id- kishor.pramanik1@tatasteel.com																		
M/s Tata Steel Limited,																		
				erly Tat						5.75								
		(Gamal	aria Ph	ase-V	, Adit	yapur	Indust	rial Ar	ea, Sei	raikela	-Khai	rsawan,	Jhark	hand-8	332108	3	
Information obta	ained	from (custon	ner (if a	iny):	N/A												
Type of Industry	: Iron	& Ste	el						Condition of Sample: Fit for Test									
Sampling Protoc									Sampling Date: 12-07-2025									
Protocol: CPCB	Guide	line &	IS Me	ethod 30)25 S	eries &	API	HA										
Sampling Locati	on: B	AGAN	IPDD	4								e july						
Field Meteorolog	gical I	nform	ation	A. Te	mp.	(°C): 3	0	R.H.	(%):	70	W.C	:: Se	mi-Clo	udy	W.D.:	SE to	NW	
Location of perfe	orman	ice of	the La	borato	ry A	ctivity	: IEN	1 Labo	ratory,	Ranch	ni							
Sample Receivin	g Date	e: 12-0	07-202	.5		Testin	g Sta	rted:	12-07-2	2025		Te	esting I	Inded	: 16-07	7-2025		

----Test Result---

SI.	Tosted Dayamatays	Unit	Method No.	No	rms**	Results	
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible	Results	
1.	PH Value		IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	7.1	
2.	Conductivity	μs/cm	IS 3025 (Part – 14)			503	
3.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable	
4.	Turbidity	NTU	IS 3025 (Part - 10)	1	5	<1	
5.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5	
6.	Odour		IS 3025 (Part - 05)	Agreeable	Agreeable	Agreeable	
7.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	355	
8.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	52.1	
9.	Total Alkalinity (as CaCO3)	mg/l	IS 3025 (Part - 23)	200	600	144	
10.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part -21)	200	600	192	
11.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	56	
12.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	45.1	
13.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2023	30	100	15.1	
14.	Copper	mg/l	APHA 3111 B.2023	0.05	1.5	BDL (MDL – 0.2)	
15.	Chromium	mg/l	APHA 3111 B.2023	0.05	No Relaxation	BDL (MDL – 0.2)	
16.	Zinc	mg/l	APHA 3111 B.2023	5	15	0.98	

Reviewed by Authorized Signatory
1. Htmag 121
18/
(Tauqeer Ahman) (Dr/S. C. Jain)
Technical Manager Panum Director
Technical Manager Director



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



TC-16135

TEST REPORT

----Test Result----

SI.	Tested Parameters	Unit	Method No.	No	orms**	Results	
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible		
17.	Nickel	mg/l	APHA 3111 B.2023	0.3	No Relaxation	BDL (MDL- 0.2)	
18.	Mercury	mg/l	APHA 3112 C.2023	0.001	No Relaxation	BDL (MDL - 0.05)	
19.	Arsenic	mg/l	APHA 3114 C.2023	0.01	No Relaxation	BDL (MDL – 0.02)	
20	Manganese	mg/l	APHA 3111 B.2023	0.1	No Relaxation	BDL (MDL – 0.2)	
21	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL – 0.1)	
22	Fluoride (as F ⁻)	mg/l	APHA 4500 F D. 2023	1.0	1.5	0.48	
23	Iron	mg/l	APHA 3111 B.2023	1.0	No Relaxation	0.35	
24	Lead	mg/l	APHA 3111 B.2023	0.01	No Relaxation	BDL (MDL – 0.2)	

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°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.
Opinion & Interpretation	Not Practiced.
Tested by	Mahendranath Mahto
Sample Drawn by	Rahul Singh & Team
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified.

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(Taugeer Ahmad Technical Manager Panchi (Dr. S. C. Jain)

Director



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



TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	5	0	0	0	0	0	0	6	1	2
Discipline: Chemical Group: Water													Sub-C	Froup	: Grou	nd wa	ter	
Report Issue Date: 16-07-2025									Test R	eport	No.: F	RN-23	071400)1GW	2			
Sample ID: 250712WA01002 Sample Description: Ground Water (Bore well)																		
Challan No./P.O. No.: 3000173714/J02																		
Name and Cont	Name and Contact Details of Customer: Kishor Pramanik (9905340012)																	
		I	E-mail	Id- ki	shor.p	ramani	k1@t	atastee	el.com									
		1	M/s Ta	ta Stee	el Lin	nited,												
		(Forme	rly Ta	ta Ste	el Long	g Proc	lucts L	_imited]),								
	Gamaharia Phase-V, Adityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108																	
Information obt	Information obtained from customer (if any): N/A																	
Type of Industr	Type of Industry: Iron & Steel									tion of	Sami	ole: Fi	t for Te	est				

Type of Industry: Iron & Steel

Sampling Protocol: I.S 17614 (Part-1):2025 **Sampling Date: 12-07-2025**

Protocol: CPCB Guideline & IS Method 3025 Series & APHA

Sampling Location: JHARGOVINDPUR

Field Meteorological Information | A. Temp. (°C): 30 R.H. (%): 70 W.C.: Semi-Cloudy W.D.: SE to NW

Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi

Sample Receiving Date: 12-07-2025 Testing Started: 12-07-2025 **Testing Ended: 16-07-2025**

-- Test Result----

SI.	Tested Parameters	Unit	Method No.	No	rms**	Results	
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible	Results	
1.	PH Value		IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	7.2	
2.	Conductivity	μs/cm	IS 3025 (Part – 14)			418	
3.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable	
4.	Turbidity	NTU	IS 3025 (Part - 10)	1	5	<1	
5.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5	
6.	Odour		IS 3025 (Part - 05)	Agreeable	Agreeable	Agreeable	
7.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	291	
8.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	41.7	
9.	Total Alkalinity (as CaCO3)	mg/l	IS 3025 (Part - 23)	200	600	104	
10.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part -21)	200	600	164	
11.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	38	
12.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	34	
13.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2023	30	100	14.6	
14.	Copper	mg/l	APHA 3111 B.2023	0.05	1.5	BDL (MDL – 0.2)	
15.	Chromium	mg/l	APHA 3111 B.2023	0.05	No Relaxation	BDL (MDL – 0.2)	
16.	Zinc	mg/l	APHA 3111 B.2023	5	15	0.91	

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uthorized Signatory Reviewed by

(Taugeer Ahmad Technical Manager

Dr/S. C. Jain) Ranchi

Director

----End of Report----



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



TC-16135

TEST REPORT

----Test Result----

Sl.	Tested Parameters	Unit	Method No.	No	orms**	Results	
No.	Tested Parameters	Omt Wiethod No.		Acceptable	Permissible	Results	
17.	Nickel	mg/l	APHA 3111 B.2023	0.3	No Relaxation	BDL (MDL- 0.2)	
18.	Mercury	mg/l	APHA 3112 C.2023	0.001	No Relaxation	BDL (MDL – 0.05)	
19.	Arsenic	mg/l	APHA 3114 C.2023	0.01	No Relaxation	BDL (MDL – 0.02)	
20	Manganese	mg/l	APHA 3111 B.2023	0.1	No Relaxation	BDL (MDL – 0.2)	
21	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL – 0.1)	
22	Fluoride (as F ⁻)	mg/l	APHA 4500 F D. 2023	1.0	1.5	0.39	
23	Iron	mg/l	APHA 3111 B.2023	1.0	No Relaxation	0.31	
24	Lead	mg/l	APHA 3111 B.2023	0.01	No Relaxation	BDL (MDL – 0.2)	

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							
emark Sample Comply with prescribed specification.								
Opinion & Interpretation	Not Practiced.							
Tested by	Mahendranath Mahto							
Sample Drawn by	Rahul Singh & Team							
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 							

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6. In case of feedback/ complaints, please send an email at sm.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 is issued by the Director of the Organization.	Technical Manager Panent Director



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



TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	5	0	0	0	0	0	0	6	1	3
Discipline: Chemical Group: Water							er					Sub-C	Grouj	p: Gro	and wa	ter		
Report Issue Date: 16-07-2025								Test R	eport	No.: I	RN-23	3071400	01GV	V3				
Sample ID: 250712WA01003								Sample	e Desc	criptio	n: Gi	round '	Wate	r (Bor	e well)			
Challan No./P.O.	No.:	30001	73714	J/J02					Challa	n No.	P.No	. Date	e: 15-0	7-202	24			
Name and Contact Details of Customer: Kishor Pramanik (9905340012)																		
	E-mail Id- kishor.pramanik1@tatasteel.com																	
	M/s Tata Steel Limited,																	
	(Formerly Tata Steel Long Products Limited),																	
		(Gamal	naria F	Phase-	V, Adit	yapur	Indus	trial Ar	ea, Se	raikela	-Kha	rsawan	, Jhar	khand-	83210	8	
Information obta	ined	from (custor	ner (i	f any)	: N/A												
Type of Industry	: Iron	& Ste	el						Condit	ion o	f Samj	ple: F	it for T	est				
Sampling Protoc	ol: I.S	1761	4 (Par	t-1):20	025				Sampling Date: 12-07-2025									
Protocol: CPCB	Guide	line &	IS Me	ethod	3025	Series &	API	IA				i anno anno anno anno anno anno anno ann						
Sampling Location: NEEMDIH																		
	Field Meteorological Information A. Temp. (°C): 30 R.H. (%): 70 W.C.: Semi-Cloudy W.D.: SE to NW																	
Location of perfo	Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																	
Sample Receiving	Sample Receiving Date: 12-07-2025 Testing Starte							rted:	12-07-2	.025		Te	esting I	Ende	d: 16-0	7-202	5	

----Test Result----

Sl.	To de I Deservation	TI-:4	Madhad Na	No	orms**	Dagulta
No.	Tested Parameters	I A		Acceptable	Permissible	Results
1.	PH Value		IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	7.4
2.	Conductivity	μs/cm	IS 3025 (Part – 14)			559
3.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable
4.	Turbidity	NTU	IS 3025 (Part - 10)	1	5	<1
5.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
6.	Odour		IS 3025 (Part - 05)	Agreeable	Agreeable	Agreeable
7.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	397
8.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	59.3
9.	Total Alkalinity (as CaCO3)	mg/l	IS 3025 (Part - 23)	200	600	164
10.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part -21)	200	600	216
11.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	68
12.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	55.1
13.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2023	30	100	16.5
14.	Copper	mg/l	APHA 3111 B.2023	0.05	1.5	BDL (MDL – 0.2)
15.	Chromium	mg/l	APHA 3111 B.2023	0.05	No Relaxation	BDL (MDL – 0.2)
16.	Zinc	mg/l	APHA 3111 B.2023	5	15	0.88

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enAuthorized Signatory Reviewed by

(Taugeer Ahmad Technical Manager

(Dr. S. C. Jain)

Director



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



TEST REPORT

----Test Result----

SI.	Total Domonotons	Unit	Method No.	No	orms**	Results	
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible	Results	
17.	Nickel	mg/l	APHA 3111 B.2023	0.3	No Relaxation	BDL (MDL- 0.2)	
18.	Mercury	mg/l	APHA 3112 C.2023	0.001	No Relaxation	BDL (MDL – 0.05)	
19.	Arsenic	mg/l	APHA 3114 C.2023	0.01	No Relaxation	BDL (MDL – 0.02)	
20	Manganese	mg/l	APHA 3111 B.2023	0.1	No Relaxation	BDL (MDL - 0.2)	
21	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL – 0.1)	
22	Fluoride (as F ⁻)	mg/l	APHA 4500 F D. 2023	1.0	1.5	0.59	
23	Iron	mg/l	APHA 3111 B.2023	1.0	No Relaxation	0.25	
24	Lead	mg/l	APHA 3111 B.2023	0.01	No Relaxation	BDL (MDL – 0.2)	

Env. Condition of Lab.	Laboratory is maintaining Temperature $27\pm2^{\circ}C$ 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	mark Sample Comply with prescribed specification.						
Opinion & Interpretation	Not Practiced.						
Tested by	Mahendranath Mahto						
Sample Drawn by	Rahul Singh & Team						
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 						

Specific Contractual Notes: -	Reviewed by Ruthorized Signatory
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6. In case of feedback/ complaints, please send an email at sm.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 is issued by the Director of the Organization.	Technical Manager Director



is issued by the Director of the Organization.

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

Ranchi-834002, Jharkhand, India Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



TEST REPORT

TC-16135

ULR No.: T C 1 6 1 3 5 2	5 0 0 0 0 0 0 6 1 4						
Discipline: Chemical Group: Water	Sub-Group: Ground water						
Report Issue Date: 16-07-2025	Test Report No.: RN-230714001GW4						
Sample ID: 250712WA01004	Sample Description: Ground Water (Bore well)						
Challan No./P.O. No.: 3000173714/J02	Challan No./ P.No. Date: 15-07-2024						
Name and Contact Details of Customer: Kishor Pramanik (9905340012)							
E-mail Id- kishor.pramanik1@tatast	E-mail Id- kishor.pramanik1@tatasteel.com						
M/s Tata Steel Limited,							
(Formerly Tata Steel Long Products	Limited),						
Gamaharia Phase-V, Adityapur Indu	strial Area, Seraikela-Kharsawan, Jharkhand-832108						
Information obtained from customer (if any): N/A							
Type of Industry: Iron & Steel	Condition of Sample: Fit for Test						
Sampling Protocol: I.S 17614 (Part-1):2025	Sampling Date: 12-07-2025						
Protocol: CPCB Guideline & IS Method 3025 Series & APHA							
Sampling Location: JHARKHULI							
Field Meteorological Information A. Temp. (°C): 30 R.H. (%): 70 W.C.: Semi-Cloudy W.D.: SE to NW							
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi							
Sample Receiving Date: 12-07-2025 Testing Started	: 12-07-2025 Testing Ended: 16-07-2025						

----Test Result---

SI.	Tosted Danameters		Mathed No.	No	orms**	Results
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible	Results
1.	PH Value		IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.9
2.	Conductivity	μs/cm	IS 3025 (Part – 14)			470
3.	Taste		IS 3025 (Part - 07)	Agreeable	Agreeable	Agreeable
4.	Turbidity	NTU	IS 3025 (Part - 10)	1	5	<1
5.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
6.	Odour		IS 3025 (Part - 05)	Agreeable	Agreeable	Agreeable
7.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	330
8.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	48.1
9.	Total Alkalinity (as CaCO3)	mg/l	IS 3025 (Part - 23)	200	600	124
10.	Total Hardness (as CaCO3)	mg/l	IS 3025 (Part -21)	200	600	178
11.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	52
12.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	41.1
13.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2023	30	100	14.1
14.	Copper	mg/l	APHA 3111 B.2023	0.05	1.5	BDL (MDL – 0.2)
15.	Chromium	mg/l	APHA 3111 B.2023	0.05	No Relaxation	BDL (MDL – 0.2)
16.	Zinc	mg/l	APHA 3111 B.2023	5	15	0.93

Specific Contractual Notes: 1. The laboratory accepts responsibility for content of this report. 2. This report shall not be reproduced except in full, without approval of the MD. 3. This report is intended for only guidance and not for legal purpose or for advertisement. 4. Any complaint about this report should be communicated in writing within 7 days of its issue 5. Total liability of Institute for Environmental Management will be limited to invoiced amount only. 6. In case of feedback/ complaints, please send an email at sm.iemeco@gmail.com On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report Technical Manage Director

---End of Report----



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



TEST REPORT

----Test Result----

SI.	T-4-1 D4	Unit Method No.		No	orms**	Results
No.	Tested Parameters	Unit	Method No.	Acceptable	Permissible	Results
17.	Nickel	mg/l	APHA 3111 B.2023	0.3	No Relaxation	BDL (MDL- 0.2)
18.	Mercury	mg/l	APHA 3112 C.2023	0.001	No Relaxation	BDL (MDL - 0.05)
19.	Arsenic	mg/l	APHA 3114 C.2023	0.01	No Relaxation	BDL (MDL – 0.02)
20	Manganese	mg/l	APHA 3111 B.2023	0.1	No Relaxation	BDL (MDL - 0.2)
21	Nitrite Nitrogen	mg/l	IS 3025 (Part - 34)			BDL (MDL - 0.1)
22	Fluoride (as F ⁻)	mg/l	APHA 4500 F D. 2023	1.0	1.5	0.43
23	Iron	mg/l	APHA 3111 B.2023	1.0	No Relaxation	0.29
24	Lead	mg/l	APHA 3111 B.2023	0.01	No Relaxation	BDL (MDL – 0.2)

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.							
Opinion & Interpretation	Not Practiced.							
Tested by	Mahendranath Mahto							
Sample Drawn by	Rahul Singh & Team							
Disclaimers	 The results relate only to the item tested, calibrated or sampled. Additions to, deviations, or exclusions from the method is not practiced if not mentioned. Results from external providers are not used if not specified. 							

Specific Contractual Notes: -	Reviewed by ironAuthorized Signatory
The laboratory accepts responsibility for content of this report. This report shall get be grand used assert in full without approprial of the MD.	66
 This report shall not be reproduced except in full, without approval of the MD. This report is intended for only guidance and not for legal purpose or for advertisement. 	T. A hadel of
Any complaint about this report should be communicated in writing within 7 days of its issue	-13
5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.	
In case of feedback/ complaints, please send an email at sm.iemeco@gmail.com	(Taugeer Ahmad) (Dr. 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

Rainwater Harvesting Structure and Green Belt Development at SBWM - 1











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.
- 6. This order shall be valid subject to compliance of all other legal requirements applicable to the 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

Dated: 2025-06-24

Ref No. JSPCB/HO/RNC/CTO-20606861/2025/1712

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 2025-02-18 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 Consent to operate (CTO) CTO via Ref No. JSPCB/HO/RNC/CTO-17527598/2024/624 Dated: 2024-04-05 At- Plot NO. 38 & 42, 4th Phase, AIA, Gamahria, 8.1 acres 3589 Lakh Round straight bar, RCS, Flat, Hex-12750 MT/m valid till 31.03.2025 with compliance report;
- (d) The content of Authorization vide JSPCB/ HO/ RNC/ HWM-9206683/2021/10 dated 01/03/2021 for 05 years;
- (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 Unit's letter via Ref. No.: TSG/EMD/CTO/SBWM-1/Feb'25 Date: 17/02/2025;
- (g) The content of Inspection report via Ref. 38 dated 08.01.2025 of the Regional Officer, Regional Office-Cum-Laboratory, J.S.P.C. Board, Jamshedpur
- 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, PS -Bara Gamharia, District -SERAIKELA KHARSAWAN, as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To

Before Expansion	38 & 42, 4th Phase, AIA, Gamahria,	8.1 acres	4118 lakhs	Round straight bar, RCS, Flat, Hex-12750 MT/m	31/03/2026

(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 ambient air, noise, stack and effluent monitoring report from the JSPCB empaneled laboratories by applying online on the Lab management portal of 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. 31.03.2026 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
SN	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 mg/ 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:

SN	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	BOD	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 timebeing 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.
- 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

(Rajeev Lochan Bakshi)

Member Secretary

Dated: 2025-06-24

Memo No.: JSPCB/HO/RNC/CTO-

20606861/2025/1712

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 of Jharkhand, Ranchi/ Deputy Commissioner, Saraikela Kharsawan/ Regional Officer, Regional OfficeCumLaboratory, Jamshedpur for information & necessary action.

(Rajeev Lochan Bakshi)

Member Secretary

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.
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- 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.

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.

- 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.
- We will truly succeed when we sustain our environmental achievement and are valued by the communities in which we work.

Date: November 1, 2017

T V Narendran
CEO & Managing Director



Half Yearly update of key sensitive locations (till Sept'26)

TSL Gamharia

TATA STEEL FOUNDATION

Education

Scaling Up NRBC...

After Successful household survey Completion in the remaining bastis adjacent to TSG to identify out-of-school children and assess their educational needs. Large Number of Out of School /Drop out student identified. **Twenty Non-Residential Bridge Course** centres in different vulnerable locations of Gamharia. The teacher/volunteer also identified from local area aswell to sustain the centre and improve education level of students. currently 767 Students is enrolled in which 368 are girls.

PLC: Primary learning center (PLC) of Bara Gamharia and Dugdha is in continue in which 75 students is enroll. New center of Chhota Gamharia start operation after assessment and interview of teacher. Currently 30 Students enroll in this center.

Super 20 Promotion Drive

Publicity, propaganda, door to door campaign and covering nearby colleges for SUPER20 program is on to identify and encourage talented girls for giving them wings to their career. The drive focused on outreach and motivation for underprivileged youth.



Disaster Response - Flood

"Emergency Support Services'



Flash floods coupled with huge discharges of rain waters from all sides affected the low-lying areas and non-concrete houses. Tree uprooted, tilting of electric posts, obstructed main pathways, heavy wind in some areas in and around plant especially Jhurkuli village disrupted the normal life. Villagers had to remain without power for more than 40 hours and waterlogging all around. Villagers approached TSF for immediate help, with help of the environment department, removed the fallen trees making the road fully accessible for the household. Another 200 households of municipality slums and villages were supported with necessary food essentials and tarpaulin to devasted houses. Residents of that area share their gratitude through a thankful letter.











Livelihood – Skill Development



Kaushalyaan Convocation Ceremony

The Kaushalyan programme was organized in Amdih village with the objective of enhancing digital literacy and computer skills among rural students. A total of 98 students from Kuchideh, Dugdha, and Barkatand actively participated in the training sessions.

Mr. Ranjan Kumar Singh, Chief Tata Steel Limited Gamharia felicitated certificates to the students in the graduation ceremony. The Deputy Mukhiya appreciated the trainer, volunteer and TSF staff present during the event for guiding the students to share the knowledge with their friends and colleagues.





Drinking Water



May is typically one of the hottest months in many parts of India, including Jharkhand, where TSG located. This intense heat has several direct and indirect implications for water scarcity

Dugdha village which are part of Dugdha Panchayat in Gamharia ward having population about 1600, which are facing Shortage of portable drinking water especially in summer season.

The water is having high TDS with iron contains beyond acceptable limit. The entire population of the village depends on few water outlets for drinking purposes for which they have to cover a long patch to fetch the water.

After continuous demand from community member for availability of drinking water in peak summer and health concern. An alternative and temporary solution to supply portable drinking water through TSUISL is supplied for 45 days in dugdha village.







On the eve of 121st birthday of Sir JRD Tata, a plantation drive of 50 different fruit bearing plants were undertaken inside Utkramit Madhya Vidyalaya, Jhargovindpur. Mr.Ranjan Singh, Chief TSG and Mr. BK Dinda, Gen. Secy. TKU along with other dignitaries involved school students in this plantation programme. M/s. Maa Construction voluntarily committed school authorities for bush cutting and cleaning of school premises and do further plantation. The students were gifted pen & pencils. Mr. Prasana Pradhan Mr. Ashutosh & Mr. Jagannath were among the team who helped Tata.





Health - mPHU

TATA

mPHU (mobile Public Health Unit) is continuous running on weekly basis in Four location i.e Jhurkuli,Namo Pra,Bagan Para and Gorai Para. It is mobile clinics — offer a wide range of benefits that significantly improve healthcare access and outcomes, particularly for underserved populations of sensitive areas.

By being present in the community, mobile clinics foster trust between healthcare providers and residents, and it improve community engagement.55 people got benefited from these regular camp.







Nukkad Natak

A Street Skit was organized at Nimpada Basti by Youth Leadership Programme (YLP) students of Gamharia to spread awareness about dengue among the locals. The play conveyed key messages on it's symptoms, how dengue spreads, and prevention. These twentytwo youngsters focussed on behaviour change component, seeking timely medical attention in case of fever or other symptoms. Post the fifteen minutes play, the YLP students conducted small group session & one-to-one interaction with the residents of Basti to address their minor queries & confusions, further reinforcing the message of health & hygiene. Nearly 100 spectators connected the performance with their daily living and urged such awareness as an effective medium for generating awareness in a simple and engaging manner. They liked the SING BAJA drums & beats to gather the mass for the Nukkad Natak, the team was happy to get a platform to do contribute for their locals. .







Public Entitlement

TSF is creating path for remote citizens of Saraikela district who often don't avail benefits of social security measures of government. Mukhyamantri Abua Swasthya Yojana, is one such state-government schemes of Jharkhand that provides health coverage to marginalized communities up to 15 lakhs during hospitalisation & further treatment. Upperbera village is just near to Tata Growth Shop. These residents due to lack of awareness, incomplete information regarding eligibility, complex application processes, administrative barriers were not availing its benefits. As Mrs. Sabita Hansda mentioned that she visit twice a week in block but doesn't listen about Abua Helath insurence, TSF team only know about it to mePublic Entitlement through Health initiative are in continue in different villages. Till 24th September 2025 TSF Gamharia team unlock **Rs.** 31.92 crore for the wellbeing of community.

SL No	Village/Panchayat	Potential Leverage (in Lakh)
1	Jhurkuli	317.5
2	Dugdha	490.00
3	Chhota Gamharia	185.00
3	Tetuldanga	80.00
4	Bada Gamharia	1770.00
5	Saharbera	15
6	Upperbera	330.00
7	Sapra	5
	Total	3192.5



TATA STEEL FOUNDATION

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 dedusting 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	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.	Being Complied

- 9 The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and environment.
 - Energy recovery of top Blast Furnace (BF) gas.
 - Use of Tar- free runner linings.
 - De-dusting of Cast house at tap holes, runners, skimmers ladle and charging points.
 - Suppression of fugitive emissions using nitrogen gas or other inert gas
 - To study the possibility of slag and fly ash transportation back to the abandoned mines, to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.
 - Processing of the waste containing flux & ferrous wastes through waste recycling plant.
 - To implement rainwater harvesting
 - Reduction Green House Gases by:
 - 1. Reduction in power consumption
 - 2. Use of by -products gases for power generation
 - 3. Promotion of Energy Optimisation technology including energy/ audit
 - To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.
 - Up-gradation in the monitoring and analysis facilities for air and water pollution. Also, to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.

- Our BF gas pressure (plant capacity is 0.65 MTPA only) is not adequate to install TRT.
- Our coke oven plant is nonrecovery type and hence not applicable.
- The de-dusting system commissioned at MBF-I & II cast house covering tap holes, runners, skimmers ladles and charging points.
- Water sprinkling system, Dry & Wet fog systems and the compressed air are used for suppression of fugitive emissions at RMHs area.
- Since we are purchasing raw materials from outside sources, it is not applicable.
- The waste containing flux & ferrous waste is utilized to the maximum extent possible in the Pellet & Sinter plant. 100 % of waste containing flux and ferrous is utilized in the pellet & Sinter plant.
- Rainwater harvesting structures are created within the premises to harvest rainwater. Open reservoirs within the plant also act as sink for rainwater during rainy season the water of which is used in the plant.
 - Various initiatives and measures are being taken to reduce the GHG emissions and present level of GHG emission is 4.44 tCO2e/tcs. Major focus are being given to maximise the waste heat utilisation, Reduction of Coal / Coke rate in BF & DRI Process, Maximum utilization of Char, resource conservation. To reduce the power consumption VFDs are being installed wherever possible. LED lights are installed to replace the sodium vapor lamps and many Kaizens are implemented conserve power. By product BF gas is being used as fuel in Power Plant, Mills, Sinter Production Process.

	• To house	Improve keeping.	overall	 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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5/20/25, 5:59 PM Home Page Annexure - 11

Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	SIA/JH/IND1/472307/2024	
Compliance ID	127281969	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127281969/2025	
Reporting Year	2024	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	20-05-2025	
RO/SRO Name	Shri Senthil Kumar Sampath	
RO/SRO Email	agmu156@ifs.nic.in	
State	JHARKHAND	
RO/SRO Office Address	Integrated Regional Offices, Ranchi	

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, 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 2025.

	PART – A		
	General Information		
1.	Name & Address of the owner/occupier of the	TV Narendran	
	industry, operation or process	CEO & MD	
		Tata Steel Limited, Gamharia	
		Straight Bar & Wire Mill Division,	
		Unit-1 & 2	
		Phase-IV, Adityapur industrial Area,	
		Gamharia, Dist- Saraikela Kharsawan,	
		Jharkhand, India	
2.	Industry Category Primary (STC Code),	Orange	
	Secondary (STC Code)		
3.	Production capacity-Units	SBWM – I : 425 MT/Day &	
		SBWM – II : 2400 MT/month	
4.	Year of establishment	SBWM – I : 1978 & SBWM – II : 1982	
5.	Date of last statement	24.09.2024	

PART – B				
Water & Raw material Consumption				
B-1: Total Water Consumption (m	n³/d)			
		Total Water Cons	umption (m³/d)	
Category		During the curre	nt financial year	
Process (m³/d)				
Cooling (m ³ /d)		44	1	
Domestic (m³/d)				
B-2: Water Consumption per unit	of the product (m ³ ,	/MT)		
Name of the Products	Process Water Consumption per unit of product (m³/MT)			
Name of the Floducts		During the previous	During the current	
		financial year	financial year	
Straight Bar of SBWM – 1		0.215 0.127		
Wire of SBWM - 2		0.376 0.250		
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 for SBWM – 1	Straight Bar	1.04 1.04		
Steel Wire Rod for SBWM – 2	Wires	1.01 1.01		

PART – C

Pollution discharged to Environment per unit of Output

(Parameters as specified in the Consent issued)

C-1: Water Pollution

	Quantity discharge	Concentration	Percentage of variation from
Pollutant Parameter	(kg/d)	discharge (mg/l)	prescribed standards with reasons
-	Nil	Nil	_

It is to be noted that since we are maintaining Zero Effluent Discharge (ZED) of hence the above discharge load is also zero.

Pollutant Parameter	Quantity discharge (kg/d)	Concentration discharge (mg/Nm³)	Percentage of variation from prescribed standards with reasons	
Stack emission	17.24	21.9	-78.1	The result is negative, it means the measured value is within the prescribed standard.

PART - D

Hazardous Wastes

(As specified under The Hazardous Waste Management, Handling & Transboundary Movement Rules, 2016)

D-1: Generation from Process

Name	Total Quantity (MT/KL)	
	During the previous During the current	
	financial year	financial year
Used Oil / Spent Oil (Schedule – 1; Cat 5.1)	4.48 MT	1.38 MT
Waste or Residue Containing Oil (cotton Waste)	0.143 MT	0.165 MT
(Schedule - 1; Cat 5.2)	0.143 WII 0.103 WII	
Waste cutting oils (Schedule – 1; Cat 5.3)	-	Nil
Acidic and alkaline residues	2150.14 MT	2192.25 MT
(Schedule – 1; Cat.: 12.1)	2150.14 IVII	Z13Z.Z3 IVI I
Spent pickling liquor (Schedule – 1; Cat 13.1)	135.07 MT	188.33 MT

D-2: Generation from Pollution Control Facilities

Name	Total Quantity (MT/KL)	
	During the previous	
	financial year financial year	
-	N/A	N/A

E		
stes		
E-1 : Generation from Process		
Name Total Quantity (MT)		
During the previous During the curre		
financial year financial year		
1745	1911	
	Total Quar During the previous financial year	

Reutilized and reuse, sold and disposal: Mill scale is being used in-house at sinter plant and partially sold to outside vendors.

	PART – F tions (in terms of composition in qu e disposal practice adopted for both	-
Description	Composition	Method of disposal
Used Oil / Spent Oil (Schedule – 1; Cat 5.1)	Poly aromatic hydrocarbon	Recycled or reprocessed through authorized recycler approved by JSPCB.
Acidic and alkaline residues (Schedule – 1; Cat.: 12.1)	HCI	Disposal to Authorized
Spent pickling liquor (Schedule – 1: Cat 13.1)	HCI	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.

Ravi Ranjan Prasoon Head - Environment

For Tata Steel Limited, Gamharia