



Ref. No. – TSG/EC/SBWM-1/2025-26/May-26/01

19/05/2026

**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 Oct 2025 to March 2026

**Reference:**

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

Sir,

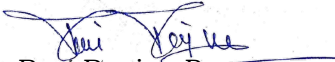
We are herewith submitting half yearly compliance report of Straight Bar & Wire Mill Division-1 of Tata Steel Limited at Adityapur Industrial Area, Village: Bara Gamharia, Tehsil: Gamharia, District: Saraikela-Kharsawan. The compliance report is for the period from Oct 2025 to March 2026,

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 Prasoan  
Head -Environment TSG

Cc:

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

**TATA STEEL LIMITED**

Tata Steel Gamharia Seraikela Kharsawan Jamshedpur 832 108 India  
Tel 065771 02349

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India

Tel 91 22 6665 8282 Website [www.tatasteel.com](http://www.tatasteel.com)

Corporate Identity Number L27100MH1907PLC000260

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

**COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE**

SI No	Conditions	Compliance status
<b>A. Specific conditions</b>		
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.	<b>Agreed and being followed.</b>
<b>II. Statutory compliance</b>		
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.	<b>Complied.</b> Not applicable since it falls under approved industrial area.
03	II. The project proponent shall obtain clearance from the national board for wildlife, if applicable.	<b>Complied.</b> 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)	<b>Complied.</b> 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.	<b>Complied.</b> The Consent to Establish and Consent to Operate were obtained from Jharkhand State Pollution Control Board vide letter No. JSPCB/HO/RNC/CTE-13774242/2022/465 dt. 24/10/2022 and JSPCB/HO/RNC/CTO-20606861/2025/1712 dt. 24/06/2025  CTE and CTO copies is attached as <b>Annexure-6</b>

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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.	<b>Complied.</b> 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.	<b>Complied.</b> 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 <b>Annexure-7</b>
<b>III. Air quality monitoring and preservation</b>		
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.	<b>Complied.</b> The unit does not have an induction furnace of Electric Arc Furnace and is only a stand-alone mill and does not 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.	<b>Complied.</b> 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 directions. (case to case	<b>Complied.</b> The project falls under small category (reheating furnace). As per the condition, manual monitoring is applicable for small plants on case-to-case basis. Accordingly, installation of Continuous Ambient Air Quality Monitoring Station (CAAQMS) is not considered necessary. Manual ambient air quality monitoring is carried out by NABL-accredited agency.

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

	basis small plants: Manual; Large plants: Continuous)	Ambient Air Quality Monitoring Report is attached as <b>Annexure-1</b> .
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	<b>Complied.</b> Monthly monitoring is done regularly through NABL accredited laboratory. And report is submitted to board (JSPCB, MoEFCC) along with six monthly monitoring report.
12	V. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> Noted and all required safeguards will be incorporated in new construction.
<b>IV. Water quality monitoring and preservation</b>		

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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)	<b>Being Complied.</b> 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.	<b>Complied.</b> Ground Water Quality Monitoring is carried out through NABL / JSPCB accredited laboratory and report submitted.  Ground Water Quality Analysis Report attached as <b>annexure-3</b>
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.	<b>Complied.</b> 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.	<b>Being complied.</b>
24	V. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	<b>Complied.</b> 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) 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.	<b>Being Complied.</b> 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	<b>Complied.</b> This is not applicable, there is no raw material stock piles applicable because this is just a small finishing mill.

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

27	VIII. The project proponent shall practice rainwater harvesting to maximum possible extent.	<b>Complied.</b> Rainwater harvesting structures are created within the premises to harvest rainwater.  Photographs of RH and Green Belt development is attached as <b>Annexure-4</b>
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.	<b>Being Complied.</b> Noted and effort shall be made to minimize total water consumption.
<b>V. Noise monitoring and prevention</b>		
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.	<b>Complied.</b> Ambient noise level is maintained within the norms specified under the Environment Protection Act, 1986.  Ambient Noise monitoring report attached as <b>Annexure-1</b>
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.	<b>Complied.</b> Ambient noise level is maintained within the norms specified under the Environment Protection Act, 1986.  Ambient Noise monitoring report attached as <b>Annexure-1</b>
<b>VI. Energy Conservation Measures</b>		
31	I. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	<b>Complied.</b> Recuperator is already installed for recovery of heat from waste gases.
32	II. Practice hot charging of slabs and billets/blooms as far as possible.	<b>Complied.</b> 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	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied</b>
<b>VII. Waste Management</b>		

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

36	I. Used refractories shall be recycled as far as possible.	<b>Complied.</b> Used refractories are recycled through 3 <sup>rd</sup> 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	<b>Complied.</b> The quantum of metallic waste (mill scale) is very negligible whereby briquetting will not be feasible. However, the collected mill scale, and other waste are reused in the process or disposed of through authorized recyclers.
38	III. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry Regional Office.	<b>Complied.</b> 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.	<b>Complied.</b> 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 basis depending on type and size of plant).	<b>Complied.</b> There is no kitchen facility in the premises.
<b>viii. Green Belt</b>		
41	I. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter area cover the entire periphery of the plant.	<b>Complied.</b> The area is planted with over saplings and all open areas are covered with plantation. We have achieved 33 Percent 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 <b>Annexure-4</b>

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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.	<b>Being Complied.</b> Our goal is to ensure sustainable and environmentally responsible operations.
<b>IX. Public hearing and human health issues</b>		
43	I. Emergency Preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> No construction work is envisaged.
<b>X. Corporate Environment Responsibility</b>		
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.	<b>Being complied.</b> 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 <b>Annexure-9</b>

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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.	<b>Complied</b> , the Company has a well-established environmental policy duly approved by CEO & MD.  Environment Policy is attached as <b>Annexure-8</b>
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.	<b>Complied.</b> 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.	<b>Being complied.</b> 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.	<b>Complied.</b> 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.	<b>Complied.</b> Recommendations made in Corporate Responsibility for Environment Conservation (CREP) is regularly reviewed and implemented.  CREP Compliance Report is attached as <b>Annexure-10</b>

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

52	VII. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<b>Complied.</b> Health check-up for workers is done at periodic intervals and records maintained as per the Factories Act.
<b>XI. Miscellaneous</b>		
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.	<b>Complied.</b>
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.	<b>Complied.</b>
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.	<b>Complied.</b> 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.	<b>Complied.</b> Criteria pollutants level are displayed at Plant Gate and EC Compliance report, along with monitoring report, is uploaded on the company's website.
57	V. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of the Environment, Forest and Climate Change at environment clearance portal.	<b>Complied.</b> Compliance and monitoring reports are submitted in PARIVESH portal once in every six months as stipulated.  Acknowledgement copy is attached as <b>Annexure-11</b>

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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.	<b>Complied.</b> Environmental Statement for each financial year is submitted regularly to JSPCB before 30th of September every year.  Last Environment Statement copy is attached as <b>Annexure-13</b>
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.	<b>Complied.</b>
60	VIII. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<b>Being complied.</b>
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.	<b>Being complied.</b>
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).	<b>Complied.</b> 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.	<b>Agreed</b>
64	XII. The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	<b>Agreed</b>
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.	<b>Agreed</b>

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**

<b>Half yearly Environment Clearance Compliance Status (From Oct'25 to Mar'26)</b>	EC Accord No: F. No: EC/SEIAA/2015-16/872/2015/262
	Issue date: 05.11.2018

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.	<b>Agreed</b>
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.	<b>Agreed</b>
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.	<b>Agreed</b>
<b>B. Other conditions :</b>		
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.	<b>Agreed</b>
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.	<b>Agreed</b>
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	<b>Agreed</b>

**Tata Steel Limited**

**Address: Adityapur Industrial Area, Gamharia, District: Saraikela- Kharsawan, Jharkhand**



## 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

	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 & operate water 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 be any spillage of coolant/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**

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

Dated : 2022-10-24

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

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



## JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

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

Dated : 2025-06-24

### 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 , P S -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:

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> , µg/m <sup>3</sup>	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> , µg/m <sup>3</sup>	Annual 24 hours	40 60	40 60
5.	Ozone(O <sub>3</sub> ), µg/m <sup>3</sup>	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m <sup>3</sup>	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual 24 hours	100 400	100 400
9.	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m <sup>3</sup>	Annual	01	01
11.	Arsenic (As) ng/m <sup>3</sup>	Annual	06	06
12.	Nickel (Ni) ng/m <sup>3</sup>	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/ Nm <sup>3</sup>

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

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	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 time-being in force, rests with the industry/ unit/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
4. **That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.**
6. **The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.**
7. **The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.**

**This is issued with the approval of the Competent authority**

**(Rajeev Lochan Bakshi)**  
Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-  
20606861/2025/1712

Dated : 2025-06-24

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

**Details of Authorisation**

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

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

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

**A General conditions of authorisation:**

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

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

**B Specific conditions:**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or 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.

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

Memo No:JSPCB/HO/RNC/HWM-  
18666808/2024/47  
Date: 30/05/2024

(Sanjay K. Srivastava)  
Section Head, Jamshedpur

**Copy To:**

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

(Sanjay K. Srivastava)  
Section Head, Jamshedpur

# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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 Sohral Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com Annexure - 1



TC-16135

## TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	5	0	0	0	0	1	8	6	2
Discipline: Chemical					Group: Atmospheric Pollution					Sub-Group: Ambient Air							
Report Issue Date: 24-12-2025									Test Report No.: RN-250303003A01								
Sample ID: 251222AP16001									Sample Description: Ambient Air								
Challan No./P.O. No.: 3000179897/J02									Challan No./ P.No. Date: 03-03-2025								
Name and Contact Details of Customer: M/s Tata Steel Limited, Gamaharia Phase-V, Adityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108 E-mail Id- kishor.pramanik1@tatasteel.com Kishor Pramanik (9905340012)																	
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: 19-12-2025 to 20-12-2025								
Protocol: CPCB Guideline (NAAQMS/36/2012-13) & IS Method 5182 Series																	
Sampling Location: SBM NEAR QA BUILDING UNIT - 1																	
Field Meteorological Information			A. Temp. (°C): 19			R.H. (%): 54			W.C.: Sunny			W.D.: SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																	
Sample Receiving Date: 22-12-2025						Testing Started: 22-12-2025						Testing Ended: 24-12-2025					

### ----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23:2006	µg/m <sup>3</sup>	100	65.1
2.	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	60	30.6
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 Part-02	µg/m <sup>3</sup>	80	22.4
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 Part-06	µg/m <sup>3</sup>	80	40.3
5.	Ammonia (NH <sub>3</sub> )	IS 5182 Part 25	µg/m <sup>3</sup>	400	29.1
6.	Ozone (O <sub>3</sub> )	IS 5182 Part 09	µg/m <sup>3</sup>	180	20.2
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m <sup>3</sup>	----	BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m <sup>3</sup>	1.0	0.3
9.	Nickel (Ni)	IS 5182 Part 26	ng/m <sup>3</sup>	----	BDL (MDL-4)

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	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	<ul style="list-style-type: none"> <li>The results relate only to the item tested, calibrated or sampled.</li> <li>Additions to, deviations, or exclusions from the method is not practiced if not mentioned.</li> <li>Results from external providers are not used if not specified.</li> </ul>

#### 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 is issued by the Director of the Organization.

Reviewed by Authorized Signatory

(Tauqeer Ahmad)      (Dr. S. C. Jain)

Technical Manager      Director

---End of Report---

# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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 Sohral Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com

## TEST REPORT

<b>Discipline:</b> Chemical	<b>Group:</b> Atmospheric Pollution	<b>Sub-Group:</b> Ambient Air
<b>Report Issue Date:</b> 24-12-2025	<b>Test Report No.:</b> RN-250303003A01	
<b>Sample ID:</b> 251222AP16001	<b>Sample Description:</b> Ambient Air	
<b>Challan No./P.O. No.:</b> 3000179897/J02	<b>Challan No./ P.No. Date:</b> 03-03-2025	
<b>Name and Contact Details of Customer:</b> M/s Tata Steel Limited, Gamaharia Phase-V, Adityapur Industrial Area, Scraikela-Kharsawan, Jharkhand-832108 E-mail Id- kishor.pramanik1@tatasteel.com Kishor Pramanik (9905340012)		
<b>Information obtained from customer (if any):</b> N/A		
<b>Type of Industry:</b> Iron & Steel	<b>Condition of Sample:</b> Fit for Test	
<b>Sampling Protocol:</b> I.S 5182	<b>Sampling Date:</b> 19-12-2025 to 20-12-2025	
<b>Protocol:</b> CPCB Guideline (NAAQMS/36/2012-13) & IS Method 5182 Series		
<b>Sampling Location:</b> SBM NEAR QA BUILDING UNIT - I		
<b>Field Meteorological Information</b>	<b>A. Temp. (°C):</b> 19	<b>R.H. (%):</b> 54
	<b>W.C.:</b> Sunny	<b>W.D.:</b> SW to NE
<b>Location of performance of the Laboratory Activity:</b> IEM Laboratory, Ranchi		
<b>Sample Receiving Date:</b> 22-12-2025	<b>Testing Started:</b> 22-12-2025	<b>Testing Ended:</b> 24-12-2025

### ----Test Results----

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

<b>Env. Condition of Lab.</b>	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
<b>Abbreviation</b>	MDL: Minimum Detection Limit, BDL: Below Detection Limit
<b>Norms** is Specified</b>	National Ambient Air Quality Standards (NAAQS), 2009.
<b>Remark</b>	Sample Comply with prescribed specification.
<b>Opinion &amp; Interpretation</b>	Not Practiced.
<b>Tested by</b>	Akanksha Sourabh
<b>Sample Drawn by</b>	Rahul Singh & Team
<b>Disclaimers</b>	<ul style="list-style-type: none"><li>The results relate only to the item tested, calibrated or sampled.</li><li>Additions to, deviations, or exclusions from the method is not practiced if not mentioned.</li><li>Results from external providers are not used if not specified.</li></ul>

#### Specific Contractual Notes: -

- The laboratory accepts responsibility for content of this report.
- 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.
- Any complaint about this report should be communicated in writing within 7 days of its issue
- 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.lemeco@gmail.com

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

Reviewed by \_\_\_\_\_ Authorized Signatory

T. Ahmad \_\_\_\_\_

(Tauqeer Ahmad) \_\_\_\_\_ (Dr. S. C. Jain)

Technical Manager

Director

—End of Report—

# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TC-16135

## TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	5	0	0	0	0	0	1	8	6	8	
Discipline: Chemical			Group: Atmospheric Pollution						Sub-Group: Ambient Noise Level (Excluding Vibrations)										
Report Issue Date: 24-12-2025									Test Report No.: RN-250303003N1										
Sample ID: 251222API7001									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: M/s Tata Steel Limited, Gamaharia Phase-V, Adityapur Industrial Area, Seraikela-Kharsawan, Jharkhand-832108 E-mail Id- kishor.pramanik1@tatasteel.com Kishor Pramanik (9905340012)																			
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: 19-12-2025 to 20-12-2025										
Protocol: CPCB Guideline & IS Method 9989:1981																			
Sampling Location: SBM NEAR QA BUILDING UNIT-1																			
Field Meteorological Information			A. Temp. (°C): 19			R.H. (%): 54			W.C.: Sunny			W.D.: SW to NE							
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																			
Sample Receiving Date: 22-12-2025						Testing Started: 22-12-2025						Testing Ended: 24-12-2025							

----Test Results----

Sl. No.	Parameters	Test Method No.	Unit	Results		Norms**
				Day Time	Night Time	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	67.9	58.1	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 % 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	<ul style="list-style-type: none"> <li>The results relate only to the item tested, calibrated or sampled.</li> <li>Additions to, deviations, or exclusions from the method is not practiced if not mentioned.</li> <li>Results from external providers are not used if not specified.</li> </ul>

**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 is issued by the Director of the Organization.

Reviewed by	Authorized Signatory
(Tauqeer Ahmad)	(Dr. S. C. Jain)
Technical Manager	Director

----End of Report----



Form No. - TSJ/EMDLAB/F/090  
Effective Date: 10-01-2022



ULR NO. : TC83632600000002F

### TEST REPORT

**Report No** : TSJ/EMDLAB/WWWQMTR/2026/0002  
**Date of Report** : 06-01-2026  
**Customer Name** : Tata Steel Gamharia  
**Discipline of Monitoring & Testing** : 1.1.28. Water  
**Sub Discipline** : Ground Water/Surface Water  
**Sample Description** : Ground Water  
**Sampling Location** : BAGANPARA VILLAGE  
**Sample Collection Date** : 19-12-2025  
**Sample Collected By** : DEPARTMENT  
**Sampling Procedure** : Grab Sample  
**Sample Registration Date** : 19-12-2025  
**Sample Receipt Condition** : Plastic Bottle, 1 Litre  
**Sample Analysis Start Date** : 19-12-2025  
**Sample Analysis End Date** : 30-12-2025  
**Subcontract Test** : N/A  
**Registration Number** : TSJ/EMDLAB/WWWQM/25-26/09-611  
**Report Issued by** : J. Nagarjuna Reddy, Sr. Mgr. Env. Monitoring & Analysis  
**Environmental Conditions Maintained** : ¥ as per IS:196-1966

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
1	pH	APHA 24th Edition 4500 H+ B: 2023	-	6.5-8.5	6.97
2	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µs/cm)	-	1942
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	< 500	952
4	Nitrogen (Ammonia) as N	APHA 24th Edition 4500 NH3- B, D: 2023	mg/L	-	< 1.0
5	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	-	2.13
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	-	< 10
7	Phenolic Compounds as Phenols	APHA 24th Edition 5530 B, D: 2023	mg/L	< 0.001	< 0.10
8	Chlorides as Cl-	APHA 24th Edition 4500 Cl- B: 2023	mg/L	< 250	330
9	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	< 200	274
10	Nitrite Nitrogen (NO2-N)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.02
11	Nitrite (NO2)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.07
12	Phosphates as P	APHA 24th Edition 4500 P D: 2023	mg/L	-	< 0.07
13	Sulphates as SO4 2-	APHA 24th Edition 4500 SO4 2- D: 2023	mg/L	< 200	199
14	Sulphide (as H2S)	APHA 24th Edition 4500 S2- D: 2023	mg/L	< 0.05	< 0.10
15	Hexavalent Chromium as Cr+6	APHA 24th Edition 3500 Cr B: 2023	mg/L	< 0.05	< 0.05
16	Iron as Fe	APHA 24th Edition 3120 B: 2023	mg/L	< 0.3	0.08

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000002F

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
17	Zinc as Zn	APHA 24th Edition 3120 B: 2023	mg/L	< 5	0.01
18	Total Chromium	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
19	Manganese as Mn	APHA 24th Edition 3120 B: 2023	mg/L	-	0.01
20	Nickel as Ni	APHA 24th Edition 3120 B: 2023	mg/L	< 0.02	0.01
21	Lead as Pb	APHA 24th Edition 3120 B: 2023	mg/L	< 0.01	0.01
22	Cadmium as Cd	APHA 24th Edition 3120 B: 2023	mg/L	< 0.005	< 0.005
23	Copper as Cu	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
24	Aluminium as Al	APHA 24th Edition 3120 B: 2023	mg/L	< 0.03	< 0.01
25	Cyanide	APHA 24th Edition 4500 CN- C, F: 2023	mg/L	-	< 0.1

**Opinion and interpretation: Nil**

**Note:**

\*Norms applicable as per IS 2296:1982 Surface Water Quality Standards.

# Standard Methods for The Examination of Water and Wastewater, 24th Edition, 2023, American Public Health association, American Water Works Association, Water Environment Federation.

¥ Indian Standard for Atmospheric Conditions for testing.

. ULR - Unique Laboratory Report (ULR) No

. **Disclaimer: The test results relate only to the items tested.**

-: End of the report: -



Authorized Signatory  
Designation: Sr. Manager  
Name: Janga Nagarjuna Reddy

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000004F

### TEST REPORT

**Report No** : TSJ/EMDLAB/WWWQMTR/2026/0004  
**Date of Report** : 06-01-2026  
**Customer Name** : Tata Steel Gamharia  
**Discipline of Monitoring & Testing** : 1.1.28. Water  
**Sub Discipline** : Ground Water/Surface Water  
**Sample Description** : Ground Water  
**Sampling Location** : JHAR GOVINDPUR VILLAGE  
**Sample Collection Date** : 19-12-2025  
**Sample Collected By** : DEPARTMENT  
**Sampling Procedure** : Grab Sample  
**Sample Registration Date** : 19-12-2025  
**Sample Receipt Condition** : Plastic Bottle, 1 Litre  
**Sample Analysis Start Date** : 19-12-2025  
**Sample Analysis End Date** : 30-12-2025  
**Subcontract Test** : N/A  
**Registration Number** : TSJ/EMDLAB/WWWQM/25-26/09-613  
**Report Issued by** : J. Nagarjuna Reddy, Sr. Mgr. Env. Monitoring & Analysis  
**Environmental Conditions Maintained** : ¥ as per IS:196-1966

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
1	pH	APHA 24th Edition 4500 H+ B: 2023	-	6.5-8.5	6.91
2	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µs/cm)	-	982
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	< 500	481
4	Nitrogen (Ammonia) as N	APHA 24th Edition 4500 NH3- B, D: 2023	mg/L	-	< 1.0
5	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	-	2.55
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	-	< 10
7	Phenolic Compounds as Phenols	APHA 24th Edition 5530 B, D: 2023	mg/L	< 0.001	< 0.10
8	Chlorides as Cl-	APHA 24th Edition 4500 Cl- B: 2023	mg/L	< 250	110
9	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	< 200	207
10	Nitrite Nitrogen (NO2-N)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.02
11	Nitrite (NO2)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.07
12	Phosphates as P	APHA 24th Edition 4500 P D: 2023	mg/L	-	< 0.07
13	Sulphates as SO4 2-	APHA 24th Edition 4500 SO4 2- D: 2023	mg/L	< 200	140
14	Sulphide (as H2S)	APHA 24th Edition 4500 S2- D: 2023	mg/L	< 0.05	< 0.10
15	Hexavalent Chromium as Cr+6	APHA 24th Edition 3500 Cr B: 2023	mg/L	< 0.05	< 0.05
16	Iron as Fe	APHA 24th Edition 3120 B: 2023	mg/L	< 0.3	0.07

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000004F

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
17	Zinc as Zn	APHA 24th Edition 3120 B: 2023	mg/L	< 5	0.13
18	Total Chromium	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
19	Manganese as Mn	APHA 24th Edition 3120 B: 2023	mg/L	-	0.04
20	Nickel as Ni	APHA 24th Edition 3120 B: 2023	mg/L	< 0.02	< 0.01
21	Lead as Pb	APHA 24th Edition 3120 B: 2023	mg/L	< 0.01	0.03
22	Cadmium as Cd	APHA 24th Edition 3120 B: 2023	mg/L	< 0.005	< 0.005
23	Copper as Cu	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
24	Aluminium as Al	APHA 24th Edition 3120 B: 2023	mg/L	< 0.03	< 0.01
25	Cyanide	APHA 24th Edition 4500 CN- C, F: 2023	mg/L	-	< 0.1

**Opinion and interpretation: Nil**

**Note:**

\*Norms applicable as per IS 2296:1982 Surface Water Quality Standards.

# Standard Methods for The Examination of Water and Wastewater, 24th Edition, 2023, American Public Health association, American Water Works Association, Water Environment Federation.

¥ Indian Standard for Atmospheric Conditions for testing.

. ULR - Unique Laboratory Report (ULR) No

. **Disclaimer: The test results relate only to the items tested.**

—: End of the report: —



Authorized Signatory  
Designation: Sr. Manager  
Name: Janga Nagarjuna Reddy

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000003F

### TEST REPORT

**Report No** : TSJ/EMDLAB/WWWQMTR/2026/0003  
**Date of Report** : 06-01-2026  
**Customer Name** : Tata Steel Gamharia  
**Discipline of Monitoring & Testing** : 1.1.28. Water  
**Sub Discipline** : Ground Water/Surface Water  
**Sample Description** : Ground Water  
**Sampling Location** : JHARKULI VILLAGE  
**Sample Collection Date** : 19-12-2025  
**Sample Collected By** : DEPARTMENT  
**Sampling Procedure** : Grab Sample  
**Sample Registration Date** : 19-12-2025  
**Sample Receipt Condition** : Plastic Bottle, 1 Litre  
**Sample Analysis Start Date** : 19-12-2025  
**Sample Analysis End Date** : 30-12-2025  
**Subcontract Test** : N/A  
**Registration Number** : TSJ/EMDLAB/WWWQM/25-26/09-612  
**Report Issued by** : J. Nagarjuna Reddy, Sr. Mgr. Env. Monitoring & Analysis  
**Environmental Conditions Maintained** : ¥ as per IS:196-1966

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
1	pH	APHA 24th Edition 4500 H+ B: 2023	-	6.5-8.5	6.99
2	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µs/cm)	-	329
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	< 500	161
4	Nitrogen (Ammonia) as N	APHA 24th Edition 4500 NH3- B, D: 2023	mg/L	-	< 1.0
5	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	-	6.45
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	-	< 10
7	Phenolic Compounds as Phenols	APHA 24th Edition 5530 B, D: 2023	mg/L	< 0.001	< 0.10
8	Chlorides as Cl-	APHA 24th Edition 4500 Cl- B: 2023	mg/L	< 250	21
9	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	< 200	81
10	Nitrite Nitrogen (NO2-N)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.02
11	Nitrite (NO2)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.07
12	Phosphates as P	APHA 24th Edition 4500 P D: 2023	mg/L	-	< 0.07
13	Sulphates as SO4 2-	APHA 24th Edition 4500 SO4 2- D: 2023	mg/L	< 200	48
14	Sulphide (as H2S)	APHA 24th Edition 4500 S2- D: 2023	mg/L	< 0.05	< 0.10
15	Hexavalent Chromium as Cr+6	APHA 24th Edition 3500 Cr B: 2023	mg/L	< 0.05	< 0.05
16	Iron as Fe	APHA 24th Edition 3120 B: 2023	mg/L	< 0.3	0.22

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000003F

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
17	Zinc as Zn	APHA 24th Edition 3120 B: 2023	mg/L	< 5	0.01
18	Total Chromium	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
19	Manganese as Mn	APHA 24th Edition 3120 B: 2023	mg/L	-	0.05
20	Nickel as Ni	APHA 24th Edition 3120 B: 2023	mg/L	< 0.02	< 0.01
21	Lead as Pb	APHA 24th Edition 3120 B: 2023	mg/L	< 0.01	0.03
22	Cadmium as Cd	APHA 24th Edition 3120 B: 2023	mg/L	< 0.005	< 0.005
23	Copper as Cu	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
24	Aluminium as Al	APHA 24th Edition 3120 B: 2023	mg/L	< 0.03	< 0.01
25	Cyanide	APHA 24th Edition 4500 CN- C, F: 2023	mg/L	-	< 0.1

**Opinion and interpretation: Nil**

**Note:**

\*Norms applicable as per IS 2296:1982 Surface Water Quality Standards.

# Standard Methods for The Examination of Water and Wastewater, 24th Edition, 2023, American Public Health association, American Water Works Association, Water Environment Federation.

¥ Indian Standard for Atmospheric Conditions for testing.

. ULR - Unique Laboratory Report (ULR) No

. **Disclaimer: The test results relate only to the items tested.**

—: End of the report: —



Authorized Signatory  
Designation: Sr. Manager  
Name: Janga Nagarjuna Reddy

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000005F

### TEST REPORT

**Report No** : TSJ/EMDLAB/WWWQMTR/2026/0005  
**Date of Report** : 06-01-2026  
**Customer Name** : Tata Steel Gamharia  
**Discipline of Monitoring & Testing** : 1.1.28. Water  
**Sub Discipline** : Ground Water/Surface Water  
**Sample Description** : Ground Water  
**Sampling Location** : NIMPARA VILLAGE  
**Sample Collection Date** : 19-12-2025  
**Sample Collected By** : DEPARTMENT  
**Sampling Procedure** : Grab Sample  
**Sample Registration Date** : 19-12-2025  
**Sample Receipt Condition** : Plastic Bottle, 1 Litre  
**Sample Analysis Start Date** : 19-12-2025  
**Sample Analysis End Date** : 30-12-2025  
**Subcontract Test** : N/A  
**Registration Number** : TSJ/EMDLAB/WWWQM/25-26/09-614  
**Report Issued by** : J. Nagarjuna Reddy, Sr. Mgr. Env. Monitoring & Analysis  
**Environmental Conditions Maintained** : ¥ as per IS:196-1966

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
1	pH	APHA 24th Edition 4500 H+ B: 2023	-	6.5-8.5	7.15
2	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µs/cm)	-	396
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	< 500	194
4	Nitrogen (Ammonia) as N	APHA 24th Edition 4500 NH3- B, D: 2023	mg/L	-	< 1.0
5	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	-	1.45
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	-	< 10
7	Phenolic Compounds as Phenols	APHA 24th Edition 5530 B, D: 2023	mg/L	< 0.001	< 0.10
8	Chlorides as Cl-	APHA 24th Edition 4500 Cl- B: 2023	mg/L	< 250	13
9	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	< 200	187
10	Nitrite Nitrogen (NO2-N)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.02
11	Nitrite (NO2)	APHA 24th Edition 4500 NO2- B: 2023	mg/L	-	< 0.07
12	Phosphates as P	APHA 24th Edition 4500 P D: 2023	mg/L	-	< 0.07
13	Sulphates as SO4 2-	APHA 24th Edition 4500 SO4 2- D: 2023	mg/L	< 200	7.9
14	Sulphide (as H2S)	APHA 24th Edition 4500 S2- D: 2023	mg/L	< 0.05	< 0.10
15	Hexavalent Chromium as Cr+6	APHA 24th Edition 3500 Cr B: 2023	mg/L	< 0.05	< 0.05
16	Iron as Fe	APHA 24th Edition 3120 B: 2023	mg/L	< 0.3	0.02

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA



ULR NO. : TC83632600000005F

S.No.	Parameters	Method of Analysis#	Units	Norms*	Result
17	Zinc as Zn	APHA 24th Edition 3120 B: 2023	mg/L	< 5	0.01
18	Total Chromium	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
19	Manganese as Mn	APHA 24th Edition 3120 B: 2023	mg/L	-	< 0.01
20	Nickel as Ni	APHA 24th Edition 3120 B: 2023	mg/L	< 0.02	< 0.01
21	Lead as Pb	APHA 24th Edition 3120 B: 2023	mg/L	< 0.01	< 0.01
22	Cadmium as Cd	APHA 24th Edition 3120 B: 2023	mg/L	< 0.005	< 0.005
23	Copper as Cu	APHA 24th Edition 3120 B: 2023	mg/L	< 0.05	< 0.01
24	Aluminium as Al	APHA 24th Edition 3120 B: 2023	mg/L	< 0.03	< 0.01
25	Cyanide	APHA 24th Edition 4500 CN- C, F: 2023	mg/L	-	< 1.0

**Opinion and interpretation: Nil**

**Note:**

\*Norms applicable as per IS 2296:1982 Surface Water Quality Standards.

# Standard Methods for The Examination of Water and Wastewater, 24th Edition, 2023, American Public Health association, American Water Works Association, Water Environment Federation.

¥ Indian Standard for Atmospheric Conditions for testing.

. ULR - Unique Laboratory Report (ULR) No

. **Disclaimer: The test results relate only to the items tested.**

-: End of the report: -



Authorized Signatory  
Designation: Sr. Manager  
Name: Janga Nagarjuna Reddy

**TATA STEEL LIMITED**  
**JAMSHEDPUR WORKS**

**ENVIRONMENT MANAGEMENT DEPARTMENT LABORATORY**

2ND FLOOR, FMD BUILDING, JAMSHEDPUR, EAST SINGHBHUM, JHARKHAND, INDIA

Rainwater Harvesting Structure and Green Belt Development at SBWM - 1



# Half Yearly (H2) update of key sensitive locations

TSL Gamharia



## Education : Functional Digital Literacy Convocation



Functional Digital Literacy Convocation was organized at Sarna Ummul, Gamharia. In this programme, around 350 women participants received their certificates after successfully completing the Functional Digital Literacy course. The programme was graced by the presence of Abhinav Prakash, SDO of Saraikela, Sharad Sharma, General Manager, Tata Growth Shop; Pramod Kumar, Head Employee Services, TSG/TGS; and Ravinandan Thakur, Head CSI, Pellet Plant. The event was also attended by the Mukhiya of Rapcha, Burudih, and Chota Gamharia Panchayats. During his address, Abhinav Prakash shared his personal journey and inspired the participants. He mentioned that his parents were not highly educated, but they always believed in the importance of education and supported him to pursue higher studies in Delhi. With dedication and hard work, he became the first IAS officer from his city. He encouraged the women to continue learning and use digital knowledge to improve their lives and support their families. Many women participants came on stage for the first time and confidently performed cultural dances, a skit, and shared their experiences from the programme. Overall, the programme was vibrant and inspiring, celebrating the confidence and achievements of the women participants.



## Convocation ceremony for the first batch of the IT and Spoken English Programme



On 13th March 2026, the convocation ceremony for the first batch of the IT and Spoken English Programme was organized at Sarna Ummul, Gamharia. In this programme, 50 students were awarded certificates for successfully completing the course. The Chief Guest of the event was Mr. Rituraj, District Education Officer of Seraikela. Other distinguished guests included Mr. Ranjan Kumar Singh, Chief of TSG; Mr. Sanjeev Poddar, CFO; and Mr. Sudhir Singh, CHRO. The programme was organized in collaboration with NIIT Foundation. During the event, some students shared their learning experiences from the programme, and a few parents also expressed their views and appreciation. Overall, the programme was successful and well appreciated by the participants and guests.



Digital Literacy Program initiative addresses the growing need to build digital capacities among rural and marginalized women. Implemented by the Gender & Community Enterprise (G&CE) vertical, the program enables women to access a wide range of digital services and entitlements, thereby bridging the digital divide and enhancing participation in governance and welfare mechanisms. In Gamharia this training started, in FY26 total 1288 female get benefited from digital literacy session in different village of gamharia block. programme enhanced their basic computer knowledge, digital awareness, online safety understanding, and confidence in accessing government schemes and digital financial services independently



38 farmers (18 men, 20 women) from Gamarhia villages attended an exposure visit to agriculture project sites of Noamundi ecosystem. They observed modern techniques like drip irrigation and integrated farming, discussed TSF interventions, and gained motivation for income generation and self-reliant farming practices. All share their experiences and learn from their expertise in agriculture.



A nine-day cataract screening and operation camp was organized in Gamharia in collaboration with Sankara Nethralaya. During the camp, a total of **558 people** were screened, out of which **131 were selected**, and **113 successful surgeries** were conducted.

This programme was the result of an intensive **one-month mobilization drive**, which included a variety of outreach activities such as **nukkad natak, miking, door-to-door mobilization**, and calling individuals who had been screened and identified in the previous year. These combined efforts helped in reaching a wider community and ensuring maximum participation.

The camp also received supportive visits from the **Drishti team of Tata Steel Foundation** and **ophthalmology students from Arka Jain University**, who attended along with their professor for an exposure visit.

The event was inaugurated by **Mr. Ranjan Singh (Chief, TSG)**, and the formal ceremony was led by **Mr. Pancham, GM, TGS**. Their presence added motivation and encouragement to the entire initiative. Overall, the camp was a significant success, providing essential eye-care services and contributing to better vision health for the community.



## Silver in National Game

13-year-old Baha Besra, talented archer from the Grassroot Archery Training Centre, Pindrabera (Gamharia), run by the Tata Steel Foundation, Baha Besra delivered an outstanding performance at National level competition, **NTPC Cherukuri Lenin Volga Memorial Under-13 National Archery Championship in the girls' category. She won Two Silver medal, (a silver medal in the ranking round and another silver medal in the elimination round)**

The tournament was held from 26th March to 28th March 2026 in Guntur, Andhra Pradesh, where young archers from across the country showcased their talent.




## ENVIRONMENTAL POLICY

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

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

**Date :** November 1, 2017



**T V Narendran**  
CEO & Managing Director



**Compliance status report for the conditions prescribed in the  
Corporate Responsibility for Environmental Protection (CREP) of TSG**

SN.	Condition	Compliance status/Action taken
1	<p><b>Coke Oven Plant:</b> 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.</p>	<p>Our Coke Oven Plant is non-recovery type coke oven and this requirement is not applicable.</p>
2	<p><b>Steel Melting Shop:</b> Steel Melting Shop Fugitive Emission Status To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).</p>	<p>Dedicated secondary Fume Extractive System are installed in EAF &amp; 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 &amp; CPCB Server on real time basis.</p>
3	<p><b>Blast Furnace</b> - Direct inject of reducing agents in blast furnace</p>	<p>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.</p>
4	<p><b>Solid Waste / Hazardous Waste Management:</b> Utilization of Steel Melting Shop (SMS) / Blast Furnace (BF) slag as per the following.</p> <ul style="list-style-type: none"> <li>• By 2004 – 70%</li> <li>• By 2006 – 80% and</li> <li>• By 2007 – 100%</li> </ul> <p><b>Hazardous Waste:</b> - Charge of tar sludge / ETP sludge to coke oven by June 2003. - Inventorization of Hazardous waste as per Hazardous waste (M &amp; 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).</p>	<p>Solid waste generated within the plant are segregated and most of the waste are recycled back in process.</p> <ul style="list-style-type: none"> <li>(i) Rolling mill scrap is partially recycled as steel scrap in SMS and partially sold as scrap to outside vendor.</li> <li>(ii) Mill scale is used in sinter making process at Sinter Plant.</li> <li>(iii) FES Dust from SMS is being used in sinter plant.</li> <li>(iv) Flue Dust from blast furnace, Bag Filter Dust and wet GCP dust is also used in Sinter plant.</li> <li>(v) 100% Blast furnace slag is sold to open market. (Used by major cement industry).</li> <li>(vi) Metal is recovered from slag of arc furnace and recycled.</li> <li>(vii) Used Oil / Waste Oil / Spent oil is collected and stored in designated place and sold to authorized recycler.</li> </ul>

**Compliance status report for the conditions prescribed in the  
Corporate Responsibility for Environmental Protection (CREP) of TSG**

		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	<b>Water Conservation / Water Pollution</b> - To reduce specific water consumption to 5 m <sup>3</sup> / t for long products and 8 m <sup>3</sup> / 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, SO <sub>2</sub> & NO <sub>x</sub> 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

**Compliance status report for the conditions prescribed in the Corporate Responsibility for Environmental Protection (CREP) of TSG**

<p>9</p>	<p>The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and environment.</p> <ul style="list-style-type: none"> <li>• Energy recovery of top Blast Furnace (BF) gas.</li> <li>• Use of Tar- free runner linings.</li> <li>• De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points.</li> <li>• Suppression of fugitive emissions using nitrogen gas or other inert gas</li> <li>• 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.</li> <li>• Processing of the waste containing flux &amp; ferrous wastes through waste recycling plant.</li> <li>• To implement rainwater harvesting</li> <li>• Reduction Green House Gases by:             <ol style="list-style-type: none"> <li>1. Reduction in power consumption</li> <li>2. Use of by –products gases for power generation</li> <li>3. Promotion of Energy Optimisation technology including energy/ audit</li> </ol> </li> <li>• To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.</li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Our BF gas pressure (plant capacity is 0.65 MTPA only) is not adequate to install TRT.</li> <li>• Our coke oven plant is non-recovery type and hence not applicable.</li> <li>• The de-dusting system commissioned at MBF-I &amp; II cast house covering tap holes, runners, skimmers ladles and charging points.</li> <li>• Water sprinkling system, Dry &amp; Wet fog systems and the compressed air are used for suppression of fugitive emissions at RMHs area.</li> <li>• Since we are purchasing raw materials from outside sources, it is not applicable.</li> <li>• The waste containing flux &amp; ferrous waste is utilized to the maximum extent possible in the Pellet &amp; Sinter plant. 100 % of waste containing flux and ferrous is utilized in the pellet &amp; Sinter plant.</li> <li>• 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.</li> <li>• Various initiatives and measures are being taken to reduce the GHG emissions and present level of GHG emission is 4.44 tCO<sub>2</sub>e/tcs. Major focus are being given to maximise the waste heat utilisation, Reduction of Coal / Coke rate in BF &amp; 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 to conserve power. By product BF gas is being used as fuel in Power Plant, Mills, Sinter Production Process.</li> </ul>
----------	---	---

**Compliance status report for the conditions prescribed in the Corporate Responsibility for Environmental Protection (CREP) of TSG**

	<ul style="list-style-type: none"><li>• To Improve overall housekeeping.</li></ul>	<ul style="list-style-type: none"><li>• A separate Environment cell is already available and need based training is being imparted to the monitoring personnels as and when required.</li><li>• Mechanized housekeeping is introduced to done within the plant. Fixed and mobile sprinklers are deployed at required locations for suppression of fugitive dust.</li></ul>
--	--	--

**Your (Half Yearly Compliance Report) has been Submitted with following details**

<b>Proposal No</b>	SIA/JH/IND1/472307/2024
<b>Compliance ID</b>	432474378
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/432474378/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	19-11-2025
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	JHARKHAND
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Ranchi
<b>Note:-</b> 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 31<sup>st</sup> March 2025.**

<b>PART – A</b>		
<b>General Information</b>		
1.	Name & Address of the owner/occupier of the industry, operation or process	TV Narendran CEO & MD <b>Tata Steel Limited, Gamharia</b> 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), Secondary (STC Code)	Orange
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

<b>PART – B</b>			
<b>Water &amp; Raw material Consumption</b>			
<b>B-1 : Total Water Consumption (m<sup>3</sup>/d)</b>			
		<b>Total Water Consumption (m<sup>3</sup>/d)</b>	
<b>Category</b>		<b>During the current financial year</b>	
Process (m <sup>3</sup> /d)		44	
Cooling (m <sup>3</sup> /d)			
Domestic (m <sup>3</sup> /d)			
<b>B-2 : Water Consumption per unit of the product (m<sup>3</sup>/MT)</b>			
<b>Name of the Products</b>		<b>Process Water Consumption per unit of product (m<sup>3</sup>/MT)</b>	
		<b>During the previous financial year</b>	<b>During the current financial year</b>
Straight Bar of SBWM – 1		0.215	0.127
Wire of SBWM - 2		0.376	0.250
<b>B-3 : Raw Material Consumption</b>			
<b>Name of Raw materials</b>	<b>Name of Products</b>	<b>Raw material Consumption per unit of product (MT/MT)</b>	
		<b>During the previous financial year</b>	<b>During the current financial year</b>
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				
Pollutant Parameter	Quantity discharge	Concentration discharge (mg/l)	Percentage of variation from prescribed standards with reasons	
	(kg/d)			
-	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	Concentration discharge (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed standards with reasons	
	(kg/d)			
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 financial year	During the current financial year
Used Oil / Spent Oil (Schedule – 1; Cat. - 5.1)	4.48 MT	1.38 MT
Waste or Residue Containing Oil (cotton Waste) (Schedule - 1; Cat. - 5.2)	0.143 MT	0.165 MT
Waste cutting oils (Schedule – 1; Cat. - 5.3)	-	Nil
Acidic and alkaline residues (Schedule – 1; Cat.: 12.1)	2150.14 MT	2192.25 MT
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	During the current financial year
-	N/A	N/A

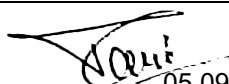
PART – E		
Solid Wastes		
E-1 : Generation from Process		
Name	Total Quantity (MT)	
	During the previous financial year	During the current financial year
Mill Scale	1745	1911
<b>Reutilized and reuse, sold and disposal:</b> Mill scale is being used in-house at sinter plant and partially sold to outside vendors.		

PART – F		
Please specify the characterizations (in terms of composition in quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both this categories of wastes		
F-1 : Hazardous Wastes		
Description	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)	HCl	Disposal to Authorized Recycler approved by JSPCB
Spent pickling liquor (Schedule – 1; Cat. - 13.1)	HCl	

PART – G
<b>Impact of pollution control measure taken on conservation of natural resources and cost of production</b>
Water sprinkles are installed to control the fugitive emission during vehicle movement

PART – H
<b>Additional measures/investment proposal (future plan) for environmental protection including abatement of pollution, prevention of pollution</b>
None

PART – I
<b>Any other particulars undertaken for improving the quality of environment</b>
Enhancing green coverage by creating gardens and undertaking mass tree plantation in and around the plant.

  
 05.09.2025  
 Ravi Ranjan Prasoon  
 Head - Environment

**For Tata Steel Limited, Gamharia**