



TSL/FAMD/FAPG/FY26/2569

Dt.29/05/2025

To,  
Deputy Director General of Forests (Central)  
Ministry of Environment, Forest & Climate Change,  
Regional Office, A/3, Chandrasekharpur,  
Bhubaneswar-751023

Sub: Submission of Half Yearly EC & CRZ Compliance for the period Oct'24 to Mar'25.

Ref: Letter No. J-11011/55/2011-1A-II(I) Dated 14.08.12 & 11-63/2012 Dated 18/3/13

Respected Sir,

We are enclosing the herewith half yearly Compliance return on Environment Clearance & CRZ Clearance for 55000 TPA High Carbon Ferro-Chrome plant for the period of Oct'24 to Mar'25.

This is for your kind information.

Thanking You,

Yours Truly,

For Tata Steel Limited

Factory Manager

(Atla Rambabu)

Plant Head & Factory Manager

Ferro Chrome Plant, Gopalpur

Copy to:

1. The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012)
2. Regional Officer, State Pollution Control Board, Berhampur

**TATA STEEL LIMITED**

Project Gopalpur Gajapati Nagar Main lane Berhampur 760010 Dist. Ganjam odisha India

Tel +91 680 2290212 2290046

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

Tel 91 22 66658282 Fax 91 22 66657724

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

<b>Proposal No</b>	IA/OR/IND/5586/2011
<b>Compliance ID</b>	128539960
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/128539960/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	31-05-2025
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	ODISHA
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Bhubaneswar
<b>Note:-</b> SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, ODISHA with Notification to Project Proponent.	

<p align="center"><b>Half Yearly Compliance Report</b>  <b>2025</b>  <b>01 Jun(01 Oct - 31 Mar)</b></p> <p align="center"><b>Acknowledgement</b></p>						
<b>Proposal Name</b>		Proposed 55000 TPA High Carbon Ferro-Chrome Plant, 400000 TPA Rebar Mill and Desalination Plant at Gopalpur, Villages Chamkhandi, Sindhigaon Jagannathpur, Tehsil Chatrapur, District Ganjam, Odisha by M/s Tata Steel Limited				
<b>Name of Entity / Corporate Office</b>		Tata Steel Ltd				
<b>Village(s)</b>		N/A				
<b>District</b>		GANJAM				
<b>Proposal No.</b>	IA/OR/IND/5586/2011	<b>Category</b>	Industrial Projects - 1			
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A			
<b>State</b>	ODISHA	<b>Entity's PAN</b>	*****2803M			
<b>MoEF File No.</b>	J-11011/55/2011-IA.II(I)	<b>Entity name as per PAN</b>	UTSAV KASHYAP			
<b>Compliance Reporting Details</b>						
<b>Reporting Year</b>	2025					
<b>Remarks (if any)</b>						
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)					
<b>Details of Production and Project Area</b>						
<b>Name of Entity / Corporate Office</b>	Tata Steel Ltd					
	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>				
Private	140.426	140.426				
Revenue Land	0	0				
Forest	0	0				
Others	0	0				
Total	140.426	140.426				
<b>Production Capacity</b>						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	High Carbon Ferro Chrome	Tons per Annum (TPA)	31/03/2026	55000	38504	55000
<b>Conditions</b>						

## Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The proponent shall obtain necessary CRZ clearance under the provision of CRZ Notification, 2010
<b>PPs Submission:</b> Complied We have been granted CRZ Clearance under the provision of CRZ Notification, 2011 on 18.03.2013 vide letter no. F No. 11-63/2012-IA.III from MoEFCC (IA Division).		Date: 31/05/2025
2	WASTE MANAGEMENT	No Charcoal shall be used as fuel. Pet Coal should be used as fuel instead of charcoal from unknown sources.
<b>PPs Submission:</b> Complied No Charcoal is used as fuel for plant operations.		Date: 29/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	Continuous monitoring facilities for all the stacks and sufficient air pollution control equipment viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emission below 50 mg/Nm <sup>3</sup>
<b>PPs Submission:</b> Complied Continuous monitoring of PM for process stack is in place in SAF-1, SAF-2 and BQT Plant and Monthly report is being submitted to SPCB. Fume Extraction System with bag filters and ID fan has been installed to control emission. Adequate stack height is maintained in submerged arc furnace. Dust extraction and DFDS system is installed to check dust emissions.		Date: 31/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009 shall be followed.
<b>PPs Submission:</b> Complied NAAQ-2009 Standards have been referred for air quality monitoring and is being complied.		Date: 31/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
<b>PPs Submission:</b> Complied A mobile Water sprinkler is being used on roads on a regular basis to control the fugitive emissions. In addition to this Permanent Road sprinkler is also installed to suppress the Dust.		Date: 31/05/2025
6	WATER QUALITY MONITORING AND PRESERVATION	The total water requirement shall not exceed 5.5 MLD. "Zero" effluent discharge shall be strictly followed, and no wastewater should be discharged outside the premises.
<b>PPs Submission:</b> Complied The maximum water requirement for the 55,000 TPA of Ferro Chrome Plant is 500 KLD approx. The ETP and STP has been installed and is in running condition and no wastewater is discharged outside the premises.		Date: 31/05/2025
7	WATER QUALITY MONITORING AND PRESERVATION	Efforts shall be made to make use of rainwater harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.



<b>PPs Submission:</b> Complied The existing water reservoir of 6.5 lakhs KL capacity is also used to store the rainwater during the monsoon. Rainwater post treatment is used to meet the water requirement.		Date: 29/05/2025
8	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry' Regional Office at Bhubaneswar, SPCB and CPCB.
<b>PPs Submission:</b> Complied Monthly Monitoring of Upstream and Downstream Surface water quality is carried out regularly around the project site by third party registered and NABL accredited labs.		Date: 31/05/2025
9	Statutory compliance	All the Ferro chrome slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) Test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.
<b>PPs Submission:</b> Complied Ferro Chrome Slag testing for Toxic Chemical Leachability Potential (TCLP) has been done from IMMT. No hazardous substances were found. The same can be used for landfilling in low lying areas.		Date: 31/05/2025
10	Risk Mitigation and Disaster Management	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
<b>PPs Submission:</b> Complied Risk and Disaster Management Plan along with the mitigation measures have been submitted to the MoEF vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012 along with a copy to Eastern Regional Office, MoEF and Odisha State Pollution Control Board, Bhubaneswar. Additionally, an onsite emergency plan approved by Directorate of Factories and Boilers is also in place.		Date: 29/05/2025
11	Corporate Environmental Responsibility	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 20th September 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.
<b>PPs Submission:</b> Complied Commitments made to the public during public hearing are being regularly implemented and monitored by Tata Steel Foundation (TSF) within the allocated budget.		Date: 29/05/2025
12	GREENBELT	As proposed green belt should be developed in at least 33 percent of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
<b>PPs Submission:</b> Complied Green belt development has been taken up in phase wise manner. Till date, over 54718 saplings have been planted with an average survival rate greater than 95 percentage.		Date: 31/05/2025
13	Corporate Environmental Responsibility	At least 5 percent of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Office

		at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.
<b>PPs Submission:</b> Complied Separate budget has been earmarked for the CSR activities, community as well as peripheral development activities such as Health, drinking water, Education, Environment etc. and is being done by our Tata Steel Foundation wing. Rupees 629.01 lacs were spent towards the above-mentioned activities in October 2023 to March 2024.		Date: 31/05/2025
14	MISCELLANEOUS	The Company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
<b>PPs Submission:</b> Complied Necessary infrastructure and facilities for the construction labors were provided during the construction phase.		Date: 31/05/2025
15	Corporate Environmental Responsibility	The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process / procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or administrative order of the Company to deal with environmental issues and ensuring compliance to environmental clearance conditions and (iii) System of reporting of noncompliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
<b>PPs Submission:</b> Complied The Corporate Environment Policy is in place and has been submitted to the MoEFCC vide letter no. OP-Env /C-04/52/2012 dated 12.11.2012 with a copy to Regional Office, OSPCB.		Date: 31/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.
<b>PPs Submission:</b> Complied Stipulations made by the State and Central Govt. from time to time are being adhered to.		Date: 31/05/2025
2	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
<b>PPs Submission:</b> Complied Amendment to Environmental Clearance was granted by MoEFCC vide File no. J-11011/55/2011-IA II(I) on 08.08.2014.		Date: 29/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by the Ministry on 19th May 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.

<b>PPs Submission:</b> Complied The Process units have the gaseous emissions under control and below the prescribed limits.		Date: 29/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.
<b>PPs Submission:</b> Complied Four ambient Air Quality and fugitive Emission monitoring stations installed. The ground level concentration of PM10, SO2 and NOX etc. are as per the anticipation of SPCB. The Air Quality, Fugitive emission and Stack monitoring result is attached herewith.		Date: 31/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
<b>PPs Submission:</b> Complied Industrial wastewater generated is being treated in Effluent Treatment Plant conforming to the standards and treated wastewater is recycled and re-used for green belt development, water sprinkling on roads, metal cooling activity etc.		Date: 29/05/2025
6	Statutory compliance	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
<b>PPs Submission:</b> Complied Health Records of the workers are being maintained as per Factories Act. Pre-Employment Medical check-up prior to the issue of their gate pass to work inside the site and Periodic Medical Check-up for the workers is being done.		Date: 29/05/2025
7	WATER QUALITY MONITORING AND PRESERVATION	The company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.
<b>PPs Submission:</b> Complied A water reservoir of 6.5 lakhs Liter capacity is in place to store the rainwater post monsoon which will be used for plant operation post requisite treatment.		Date: 29/05/2025
8	Corporate Environmental Responsibility	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
<b>PPs Submission:</b> Complied Environmental Protection measures as indicated in the EIA and EMP report have been implemented. Socio-economic developmental activities in Health, Education, Sports, agriculture, and infrastructure development are being carried out in the surrounding and periphery villages.		Date: 29/05/2025
9	PUBLIC HEARING	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall

		be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.
<b>PPs Submission:</b> Complied Separate budget has been earmarked towards capital and operating environment expenditure.		Date: 29/05/2025
10	Statutory compliance	A copy of clearance letter shall be sent by the proponent to concern Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
<b>PPs Submission:</b> Complied Environment Clearance copy has been submitted to the concerned Govt. /Private Bodies in Aug 2012. Environment Clearance letter has been uploaded on the Tata Steel website, www.tatasteel.com		Date: 30/05/2025
11	Statutory compliance	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent the Regional Office of the MoEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
<b>PPs Submission:</b> Complied Last six-monthly compliance reports have been uploaded to the company's website www.tatasteel.com. Electronic multi-line display board installed to display the criteria pollutant levels namely, PM10, SO2, NOX or critical sectoral parameters, indicated for the projects at main gate of the company for the public domain. The compliance reports are being sent to the Regional Office, MoEFCC and the respective zonal office of CPCB and SPCB.		Date: 30/05/2025
12	Statutory compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/ SPCB shall monitor the stipulated conditions.
<b>PPs Submission:</b> Complied Six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data will be submitted to the Ministry of Environment, Forests and Climate Change and its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board in soft copy.		Date: 31/05/2025
13	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.
<b>PPs Submission:</b> Complied The Environment Statement in Form-V is submitted before 30th Sept of every year .Copy of Environmental Statement is being sent to the State Pollution Control Board and to the Regional		Date: 31/05/2025

Office of MoEFCC by e-mail. Environmental statement is being updated/uploaded on the website (www.tatasteel.com).		
14	PUBLIC HEARING	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhubaneswar.
<b>PPs Submission:</b> Complied Complied. Paper advertisement details are as follows a. Odia: SAMBAD, Page No. 9 b. English: The New Indian Express, Page no. 5 Advertisement details have been submitted to the MoEF Eastern Regional Office at Bhubaneswar on 19.08.12.		Date: 31/05/2025
15	Statutory compliance	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
<b>PPs Submission:</b> Complied Project received final approval from Tata Steel Board in August 2010 and is being funded through internal accruals. Ground levelling activities were started on 04.05.2013 and the same was being intimated to the board vide letter no PG-Env/C-01/03/2013 and PG-Env/C-01/04/2013, dated 10th May 2013. However, frequent strikes by the local people have deferred the plant operation.		Date: 30/05/2025
16	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
<b>PPs Submission:</b> Complied Ambient Noise monitoring is continuously monitored. Plant area is maintained within the standards.		Date: 30/05/2025
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		
<p><b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

Sl. No.	Specific Conditions	Compliance/Status
1	The proponent shall obtain necessary CRZ clearance under the provision of CRZ Notification, 2010	We have been granted CRZ Clearance under the provision of CRZ Notification, 2011 on 18.03.2013 vide letter no. F No. 11-63/2012-IA.III from MoEF & CC (IA Division).
2	No Charcoal shall be used as fuel. Pet Coal should be used as fuel instead of charcoal from unknown sources.	No Charcoal is used as fuel for plant operations.
3	Continuous monitoring facilities for all the stacks and sufficient air pollution control equipment viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emission below 50 mg/Nm <sup>3</sup>	<ul style="list-style-type: none"> <li>Continuous monitoring of PM for process stack is in place in SAF-1 &amp; SAF-2, BQT. Plant and Monthly report is being submitted to SPCB.</li> <li>Fume Extraction System with bag filters and ID fan has been installed to control emission.</li> <li>Adequate stack height is maintained in submerged arc furnace.</li> <li>Dust extraction &amp; DFDS system is installed to check dust emissions.</li> </ul>
4	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November 2009 shall be followed.	NAAQ-2009 Standards have been referred for air quality monitoring and is being complied.
5	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	A mobile Water sprinkler is being used on roads on a regular basis to control the fugitive emissions. In addition to this Permanent Road sprinkler is also installed to suppress the Dust.
6	The total water requirement shall not exceed 5.5 MLD. 'Zero' effluent discharge shall be strictly followed, and no wastewater should be discharged outside the premises.	The maximum water requirement for the 55,000 TPA of Ferro Chrome Plant is 500 KLD approx. The ETP and STP has been installed and is in running condition and no wastewater is discharged outside the premises.
7	Efforts shall be made to make use of rainwater harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.	The water reservoir of 6.5 lakhs KL capacity is also used to store the rainwater during the monsoon. Rainwater post treatment is used to meet the water requirement.
8	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry' Regional Office at Bhubaneswar, SPCB and CPCB.	Monthly Monitoring of Upstream & Downstream Surface water quality is carried out regularly around the project site by third party registered and NABL accredited labs.

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

9	All the Ferro chrome slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) Test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.	Ferro Chrome Slag testing for Toxic Chemical Leachability Potential (TCLP) has been done from IMMT. No hazardous substances were found. The same can be used for landfilling in low lying areas.
10	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.	Risk and Disaster Management Plan along with the mitigation measures have been submitted to the MoEF vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012 along with a copy to Eastern Regional Office, MoEF and Odisha State Pollution Control Board, Bhubaneswar. Additionally, an onsite emergency plan approved by Directorate of Factories & Boilers is also in place.
11	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 20th September 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	Commitments made to the public during public hearing is being regularly implemented and monitored by Tata Steel Foundation (TSF) within the allocated budget.
12	As proposed green belt should be developed in at least 33% of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Green belt development has been taken up in phase wise manner. Till date, over 54718 saplings have been planted with an average survival rate greater than 95%.
13	At least 5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	Separate budget has been earmarked for the CSR activities, community as well as peripheral development activities such as Health, drinking water, Education, Environment etc. and is being done by our Tata Steel Foundation wing. Rupees 629.01 lacs were spent towards the above-mentioned activities in October 2023 to March 2024.
14	The Company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.	Necessary infrastructure & facilities for the construction labors were provided during the construction phase.

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

15	<p>The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process / procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or administrative order of the Company to deal with environmental issues and ensuring compliance to environmental clearance conditions and (iii) System of reporting of noncompliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.</p>	<p>The Corporate Environment Policy is in place and has been submitted to the MoEF &amp; CC vide letter no. OP-Env /C-04/52/2012 dated 12.11.2012 with a copy to Regional Office, OSPCB.</p>
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**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

Sl. No.	General Conditions	Compliance/Status
1	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.	Stipulations made by the State & Central Govt. from time to time are being adhered to.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Amendment to Environmental Clearance was granted by MoEF & CC vide File no. J-11011/55/2011-IA II(I) on 08.08.2014.
3	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by the Ministry on 19th May 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	The Process units have the gaseous emissions under control and below the prescribed limits.
4	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Four ambient Air Quality & fugitive Emission monitoring stations installed. The ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NOX etc. are as per the anticipation of SPCB. The Air Quality, Fugitive emission and Stack monitoring result is attached herewith.
5	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Industrial wastewater generated has been treated in Effluent Treatment Plant conforming to the standards and treated wastewater is recycled and re-used for green belt development, water sprinkling on roads, metal cooling activity etc.
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Health Records of the workers are being maintained as per Factories Act. Pre-Employment Medical check-up prior to the issue of their gate pass to work inside the site and Periodic Medical Check-up for the workers is being done.
7	The company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	A water reservoir of 6.5 lakhs liter capacity is in place to store the rainwater post monsoon which will be used for plant operation post requisite treatment.

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

8	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.</p>	<ul style="list-style-type: none"> <li>• Environmental Protection measures as indicated in the EIA and EMP report has been implemented.</li> <li>• Socio-economic developmental activities in Health, Education, Sports, agriculture, and infrastructure development are being carried out in the surrounding and periphery villages.</li> </ul>
09	<p>Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.</p>	<p>Separate budget has been earmarked towards capital and operating environment expenditure. The funds so provided are not diverted for any other purpose.</p>
10	<p>A copy of clearance letter shall be sent by the proponent to concern Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</p>	<ul style="list-style-type: none"> <li>• Environment Clearance copy has been submitted to the concerned Govt. /Private Bodies in Aug 2012.</li> <li>• Environment Clearance letter has been uploaded on the Tata Steel website, <a href="http://www.tatasteel.com">www.tatasteel.com</a></li> </ul>
11	<p>The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent the Regional Office of the MoEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<ul style="list-style-type: none"> <li>• Last six-monthly compliance reports have been uploaded to the company's website <a href="http://www.tatasteel.com">www.tatasteel.com</a>.</li> <li>• Electronic multi-line display board installed at main gate of the company to display the criteria pollutant levels namely, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> or critical sectoral parameters, indicated for the projects .</li> <li>• The compliance reports are being sent to the Regional Office, MoEF and the respective zonal office of CPCB and SPCB.</li> </ul>

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**

12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/ SPCB shall monitor the stipulated conditions.	Six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data will be submitted to the Ministry of Environment, Forests & Climate Change and it's Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board in soft copy.
13	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.	The Environment Statement in Form-V is submitted before 30th Sept of every year .Copy of Environmental Statement is being sent to the State Pollution Control Board and to the Regional Office of MoEF&CC by e-mail. Environmental statement is being updated/uploaded on the website (www.tatasteel.com).
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhubaneswar.	Complied. Paper advertisement details are as follows; a. Odia: SAMBAD, Page No. 9 b. English: The New Indian Express, Page no. 5  Advertisement details have been submitted to the MoEF Eastern Regional Office at Bhubaneswar on 19.08.12.
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Project received final approval from Tata Steel Board in August 2010 and is being funded through internal accruals. Ground leveling activities started on 04.05.2013 and the same was being intimated to the board vide letter no PG-Env/C-01/03/2013 & PG-Env/C-01/04/2013, dated 10 <sup>th</sup> May 2013. However, frequent strikes by the local people have deferred the plant operation.
16	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Ambient Noise monitoring is continuously monitored. Plant area is maintained within the standards.

**Half-Yearly Compliance Report (October 2024 to March 2025) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 from MoEF for 55,000 TPA High Carbon Ferro Chrome Plant at Tehsil Chhatrapur, Ganjam, Odisha by TATA Steel Limited**



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001:2015 & OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

Ref: CEMC32032214St1

Date: 30.5.2025

## SIX MONTHLY COMPLIANCE REPORT FROM OCTOBER-2024 TO MARCH -2025

### STATIONARY EMISSION MONITORING REPORT

Name of Industry : M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur  
Monitoring Instruments : VAYUBODHAN STACK SAMPLER VSS-2  
Stack Attached to : CGP-1

Parameters	Prescribed standard as per CTO	OCT-2024	NOV-2024	DEC-2024	JAN-2025	FEB-2025	MAR-2025	Average
Flue Gas Temp. in K	--	360	349	358	356	--	--	355.7
Average flue gas Velocity in m/sec	--	14.0	12.4	12.6	12.0	--	--	12.75
Particulate Matter (PM) in mg/Nm <sup>3</sup>	50	36.4	35.8	37.4	36.9	--	--	36.63
Sulphur Dioxide (SO <sub>2</sub> ) in mg/Nm <sup>3</sup>	---	32.1	32.4	31.2	30.6	--	--	31.58
Nitrogen Oxide (NO <sub>x</sub> ) in mg/Nm <sup>3</sup>	---	26.5	28.6	26.6	27.2	--	--	27.23

#### Notes:

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Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

Ref: CEMC32032214St2

Date: 30.5.2025

## SIX MONTHLY COMPLIANCE REPORT FROM OCTOBER-2024 TO MARCH -2025

### STATIONARY EMISSION MONITORING REPORT

Name of Industry : M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur  
Monitoring Instruments : VAYUBODHAN STACK SAMPLER VSS-2  
Stack Attached to : CGP-2

Parameters	Prescribed standard as per CTO	OCT-2024	NOV-2024	DEC-2024	JAN-2025	FEB-2025	MAR-2025	Average
Flue Gas Temp. in K	--	367	376	373	370	363	370	369.8
Average flue gas Velocity in m/sec	--	11.3	11.1	11.4	11.8	13.4	11.2	11.7
Particulate Matter (PM) in mg/Nm <sup>3</sup>	50	37.5	39.2	38.8	37.5	35.8	37.0	37.63
Sulphur Dioxide (SO <sub>2</sub> ) in mg/Nm <sup>3</sup>	--	41.5	43.4	35.6	34.7	32.6	42.8	38.43
Nitrogen Oxide (NOx) in mg/Nm <sup>3</sup>	--	34.5	33.3	31.4	30.3	26.4	32.4	31.38

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Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Ref: CEMC32032214A1

Date: 30.05.2025

## AAO MONITORING REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	MRSS Building roof
3.Monitoring Instruments	RDS ( APM 460 BL)APM 550 (Envirotech), CO Monitoring,VOC sampler
4.Sample Collected by	CEMCPL Representative

Date	PARAMETERS											
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	O <sub>3</sub> (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	As (ng/m <sup>3</sup> )
Oct-2024	70.10	36.5	13.20	16.70	0.55	<10	<20	<0.1	<0.6	<0.44	<5	<1
Nov-2024	76.58	41.3	14.35	18.45	0.66	<10	<20	<0.1	<0.6	<0.44	<5	<1
Dec-2024	73.74	38.38	13.48	17.10	0.58	<10	<20	<0.1	<0.6	<0.44	<5	<1
Jan-2025	77.68	42.29	14.22	17.85	0.49	<10	<20	<0.1	<0.6	<0.44	<5	<1
Feb-2025	72.46	36.76	12.89	17.11	0.57	<10	<20	<0.1	<0.6	<0.44	<5	<1
Mar-2025	74.76	38.57	13.91	17.87	0.50	<10	<20	<0.1	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	180	80	4	180	400	5	1	20	1	6
Six monthly Average	74.22	38.97	13.67	17.51	0.56	<10	<20	<0.1	<0.6	<0.44	<5	<1
Testing method	Gravimetric	Gravimetric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectroscopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatography analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

**BDL Values:** PM<sub>10</sub> <20 µg/m<sup>3</sup>, PM<sub>2.5</sub> <10 µg/m<sup>3</sup>, SO<sub>2</sub> < 4 µg/m<sup>3</sup>, NO<sub>x</sub> < 6 µg/m<sup>3</sup>, O<sub>3</sub> <4 µg/m<sup>3</sup>, NH<sub>3</sub> <20 µg/m<sup>3</sup>, Ni <2.5 ng/m<sup>3</sup>, As < 1 ng/m<sup>3</sup>, C<sub>6</sub>H<sub>6</sub> <4 µg/m<sup>3</sup>, BaP <0.5 ng/m<sup>3</sup>, Pb <0.02 µg/m<sup>3</sup>, CO <0.1 mg/m<sup>3</sup>

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Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

Ref: CEMC32032214A2

Date: 30.05.2025

## AAO MONITORING REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	LBSS Building roof
3.Monitoring Instruments	RDS ( APM 460 BL)APM 550 (Envirotech), CO Monitoring,VOC sampler
4.Sample Collected by	CEMCPL Representative

Date	PARAMETERS											
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	O <sub>3</sub> (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	As (ng/m <sup>3</sup> )
Oct-2024	65.40	32.70	11.20	15.5	0.53	<10	<20	<0.1	<0.6	<0.44	<5	<1
Nov-2024	64.73	36.39	12.55	16.75	0.63	<10	<20	<0.1	<0.6	<0.44	<5	<1
Dec-2024	65.50	35.79	12.73	16.20	0.54	<10	<20	<0.1	<0.6	<0.44	<5	<1
Jan-2025	68.28	38.43	11.09	16.34	0.42	<10	<20	<0.1	<0.6	<0.44	<5	<1
Feb-2025	64.71	32.43	10.80	15.52	0.51	<10	<20	<0.1	<0.6	<0.44	<5	<1
Mar-2025	67.01	34.23	11.82	16.28	0.44	<10	<20	<0.1	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	180	80	4	180	400	5	1	20	1	6
Six monthly Average	65.94	34.99	11.7	16.10	0.51	<10	<20	<0.1	<0.6	<0.44	<5	<1
Testing method	Gravimetric	Gravimetric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectroscopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatography analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

**BDL Values:** PM<sub>10</sub> <20 µg/m<sup>3</sup>, PM<sub>2.5</sub> <10 µg/m<sup>3</sup>, SO<sub>2</sub> < 4 µg/m<sup>3</sup>, NO<sub>x</sub> < 6 µg/m<sup>3</sup>, O<sub>3</sub> <4 µg/m<sup>3</sup>, NH<sub>3</sub> <20 µg/m<sup>3</sup>, Ni <2.5 ng/m<sup>3</sup>, As < 1 ng/m<sup>3</sup>, C<sub>6</sub>H<sub>6</sub> <4 µg/m<sup>3</sup>, BaP <0.5 ng/m<sup>3</sup>, Pb <0.02 µg/m<sup>3</sup>, CO <0.1 mg/m<sup>3</sup>

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Seal of Laboratory

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Ref: CEMC32032214A3

Date: 30.05.2025

## AAO MONITORING REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	Canteen Building roof
3.Monitoring Instruments	RDS ( APM 460 BL)APM 550 (Envirotech), CO Monitoring,VOC sampler
4.Sample Collected by	CEMCPL Representative

Date	PARAMETERS											
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	O <sub>3</sub> (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	As (ng/m <sup>3</sup> )
Oct-2024	65.70	33.65	11.51	14.91	0.50	<10	<20	<0.1	<0.6	<0.44	<5	<1
Nov-2024	65.63	35.70	14.66	17.05	0.54	<10	<20	<0.1	<0.6	<0.44	<5	<1
Dec-2024	63.80	33.75	10.39	12.95	0.50	<10	<20	<0.1	<0.6	<0.44	<5	<1
Jan-2025	67.70	37.65	11.13	13.70	0.44	<10	<20	<0.1	<0.6	<0.44	<5	<1
Feb-2025	66.53	33.94	10.99	14.95	0.44	<10	<20	<0.1	<0.6	<0.44	<5	<1
Mar-2025	68.83	35.74	12.01	15.71	0.37	<10	<20	<0.1	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	180	80	4	180	400	5	1	20	1	6
Six monthly Average	66.36	34.55	11.78	14.88	0.46	<10	<20	<0.1	<0.6	<0.44	<5	<1
Testing method	Gravimetric	Gravimetric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectroscopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatography analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

**BDL Values:** PM<sub>10</sub> <20 µg/m<sup>3</sup>, PM<sub>2.5</sub> <10 µg/m<sup>3</sup>, SO<sub>2</sub> < 4 µg/m<sup>3</sup>, NO<sub>x</sub> < 6 µg/m<sup>3</sup>, O<sub>3</sub> <4 µg/m<sup>3</sup>, NH<sub>3</sub> <20 µg/m<sup>3</sup>, Ni <2.5 ng/m<sup>3</sup>, As < 1 ng/m<sup>3</sup>, C<sub>6</sub>H<sub>6</sub> <4 µg/m<sup>3</sup>, BaP <0.5 ng/m<sup>3</sup>, Pb <0.02 µg/m<sup>3</sup>, CO <0.1 mg/m<sup>3</sup>

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Seal of Laboratory

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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

Ref: CEMC32032214A4

Date: 30.05.2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	ETP Building roof
3.Monitoring Instruments	RDS ( APM 460 BL)APM 550 (Envirotech), CO Monitoring,VOC sampler
4.Sample Collected by	CEMCPL Representative

Date	PARAMETERS											
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	O <sub>3</sub> (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	As (ng/m <sup>3</sup> )
Oct-2024	65.72	34.0	10.95	15.75	0.51	<10	<20	<0.1	<0.6	<0.44	<5	<1
Nov-2024	67.36	35.75	12.20	15.36	0.55	<10	<20	<0.1	<0.6	<0.44	<5	<1
Dec-2024	64.53	34.13	11.03	14.98	0.47	<10	<20	<0.1	<0.6	<0.44	<5	<1
Jan-2025	64.43	38.03	11.77	15.72	0.45	<10	<20	<0.1	<0.6	<0.44	<5	<1
Feb-2025	65.58	33.38	10.43	14.65	0.51	<10	<20	<0.1	<0.6	<0.44	<5	<1
Mar-2025	67.88	35.18	11.45	15.41	0.44	<10	<20	<0.1	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	180	80	4	180	400	5	1	20	1	6
Six monthly Average	65.91	35.08	11.3	15.31	0.49	<10	<20	<0.1	<0.6	<0.44	<5	<1
Testing method	Gravimet ric	Gravimet ric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na- Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromat ography analysis	AAS method after sampling	AAS metho d after sampli ng	AAS method after sampling

**BDL Values:** PM<sub>10</sub> <20 µg/m<sup>3</sup>, PM<sub>2.5</sub> <10 µg/m<sup>3</sup>, SO<sub>2</sub> < 4 µg/m<sup>3</sup>, NO<sub>x</sub> < 6 µg/m<sup>3</sup>, O<sub>3</sub> <4 µg/m<sup>3</sup>, NH<sub>3</sub> <20 µg/m<sup>3</sup>, Ni <2.5 ng/m<sup>3</sup>, As < 1 ng/m<sup>3</sup>, C<sub>6</sub>H<sub>6</sub> <4 µg/m<sup>3</sup>, BaP <0.5 ng/m<sup>3</sup>, Pb <0.02 µg/m<sup>3</sup>, CO <0.1 mg/m<sup>3</sup>

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*BPDal*

Athorized Signatory



Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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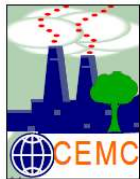
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Ref: CEMC3203221E1

Date: 30.05.2025

## **EFFLUENT WATER QUALITY REPORT FOR THE MONTH OF** **OCT-2024 TO MARCH-2025**

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	Stage-I (Collection Tank)
3.Sample Quantity	2 Lts
4.Sample Collected by	CEMCPL Representative

Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	<5	<5	<5	<5	<5	<5	<5
2	Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	Total suspended solid	35.6	36.4	68.2	42.6	28.8	29.8	40.2
4	Temperature in°C	26	28	35.3	31.2	28	28	29.2
5	pH Value @ 25°C	8.32	8.41	7.94	8.21	8.11	8.0	8.16
6	Total residual chlorine	0.2	0.2	0.2	0.1	0.6	0.4	0.28
7	Copper as Cu, Max.	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
8	Total Chromium,max	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
09	Fluoride as F, Max	0.41	0.45	0.54	0.54	0.52	0.48	0.49
10	Mercury as Hg , max	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11	Cadmium as Cd, Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	Selenium as Se, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	Arsenic as As, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
15	Lead as Pb, Max.	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
16	Zinc as Zn, Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
17	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
18	Dissolved Oxygen, Min.	5.1	5.2	5.0	5.3	5.2	5.0	5.13

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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19	Oil & Grease, Max.	<1	<1	<1	<1	<1	<1	<1
20	BOD for 3 days@ 27 <sup>0</sup> C, Max.	6.8	5.2	20.2	18.0	7.4	6.6	10.1
21	Chemical Oxygen Demand	30.8	20.4	40.0	30.0	50	40	35.2
22	Total Kjeldhal Nitrogen as N	5.0	5.4	6.3	3.28	7.0	6.2	5.36
23	Free ammonia	ND	ND	ND	ND	ND	ND	ND
24	Amonical Nitrogen	ND	ND	ND	ND	ND	ND	ND
25	Dissolved phosphates as PO <sub>4</sub>	0.21	0.28	0.32	0.12	0.38	0.32	0.27
26	Nickel as Ni	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
27	Particle size SS	<850	<850	<850	<850	<850	<850	<850
28	Bio assay Test	93%	93%	92%	93%	92%	92%	92%
29	Vanadium as V	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Nitrate as NO <sub>3</sub> , Max.	5.4	6.1	5.3	4.6	6.6	6.9	5.81
31	. Sulphide as S	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
32	Manganese as mn	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
33	Iron as Fe	0.32	0.28	0.38	0.36	0.36	0.30	0.30
34	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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**Seal of Laboratory**

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Ref: CEMC32032214E2

Date: 30.05.2025

## **EFFLUENT WATER QUALITY TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025**

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	Stage-II (Clarifier Flocculator )
3.Sample Quantity	2 Lts
4.Sample Collected by	CEMCPL Representative

Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	<5	<5	<5	<5	<5	<5	<5
2	Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	Total suspended solid	20.6	18.4	50.2	34.8	24.8	14.3	27.2
4	Temperature in °C	26.5	27	34.6	29.7	33.3	34.1	30.9
5	pH Value @ 25°C	8.41	8.37	7.81	8.32	8.42	8.55	8.31
6	Total residual chlorine	0.32	0.30	0.51	0.31	0.4	0.44	0.38
7	Copper as Cu, Max.	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
8	Total Chromium,max	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
09	Fluoride as F, Max	0.28	0.25	0.42	0.36	0.32	0.26	0.31
10	Mercury as Hg , max	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11	Cadmium as Cd, Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	Selenium as Se, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	Arsenic as As, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
15	Lead as Pb, Max.	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
16	Zinc as Zn, Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
17	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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18	Dissolved Oxygen, Min.	5.2	5.7	5.3	5.5	5.6	5.8	5.51
19	Oil & Grease, Max.	<1	<1	<1	<1	<1	<1	<1
20	BOD for 3 days@ 27 <sup>0</sup> C, Max.	6.8	7.2	10.0	8.0	6.0	5.2	7.2
21	Chemical Oxygen Demand	34.8	40.8	32.0	20.0	22.0	20.0	28.3
22	Total Kjeldhal Nitrogen as N	4.8	5.2	4.6	3.2	5.2	4.8	4.8
23	Free ammonia	ND	ND	ND	ND	ND	ND	ND
24	Amonical Nitrogen	ND	ND	ND	ND	ND	ND	ND
25	Dissolved phosphates as PO <sub>4</sub>	0.26	0.31	0.29	0.08	0.28	0.24	0.24
26	Nickel as Ni	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
27	Particle size SS	<850	<850	<850	<850	<850	<850	<850
28	Bio assay Test	93%	92%	93%	94%	94%	94%	93%
29	Vanadium as V	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Nitrate as NO <sub>3</sub> , Max.	5.7	7.6	5.9	5.2	6.2	6.0	6.1
31	. Sulphide as S	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
32	Manganese as mn	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
33	Iron as Fe	0.30	0.36	0.28	0.22	0.26	0.22	0.27
34	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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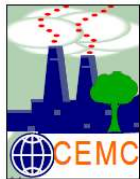
Seal of Laboratory

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Ref: CEMC32032214E3

Date: 30.05.2025

## EFFLUENT WATER QUALITY TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	Stage-III(Treated water )
3.Sample Quantity	2 Lts
4.Sample Collected by	CEMCPL Representative

Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	<5	<5	<5	<5	<5	<5	<5
2	Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	Total suspended solid	27.8	28.2	38.2	<5	12.0	10.8	23.4
4	Temperature	26.4	27.7	26.8	25.6	32.1	34.4	28.8
5	pH Value @ 25°C	8.26	8.33	7.11	8.13	7.93	8.44	8.03
6	Total residual chlorine	0.31	0.3	0.32	ND	ND	ND	0.3
7	Copper as Cu, Max.	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
8	Total Chromium,max	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
09	Fluoride as F, Max	0.25	0.24	0.36	<0.05	<0.05	<0.05	0.28
10	Mercury as Hg , max	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11	Cadmium as Cd, Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	Selenium as Se, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	Arsenic as As, Max.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
15	Lead as Pb, Max.	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
16	Zinc as Zn, Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
17	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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18	Dissolved Oxygen, Min.	5.1	5.3	5.2	5.8	5.2	5.4	5.33
19	Oil & Grease, Max.	<1	<1	<1	<1	<1	<1	<1
20	BOD for 3 days@ 27° C, Max.	6.2	10.0	7.2	14.0	10.0	3.4	8.47
21	Chemical Oxygen Demand	28.8	40.8	30.0	70.0	30.0	10.0	34.9
22	Total Kjeldhal Nitrogen as N	4.6	3.8	2.6	5.28	3.8	3.6	3.95
23	Free ammonia	ND	ND	ND	ND	ND	ND	ND
24	Amonical Nitrogen	ND	ND	ND	ND	ND	ND	ND
25	Dissolved phosphates as PO4	0.20	0.24	0.16	<0.05	<0.05	<0.05	0.2
26	Nickel as Ni	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
27	Particle size SS	<850	<850	<850	<850	<850	<850	<850
28	Bio assay Test	93%	94%	95%	95%	95%	95%	94.5%
29	Vanadium as V	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Nitrate as NO <sub>3</sub> , Max.	4.4	5.2	1.1	3.1	4.1	4.8	3.78
31	. Sulphide as S	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
32	Manganese as mn	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
33	Iron as Fe	0.20	0.16	0.19	0.28	0.18	0.12	0.19
34	Phenolic compound as C6H5OH	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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Seal of Laboratory

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Ref: CEMC32032214S1

Date: 30.05.2025

## SURFACE WATER QUALITY TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry				M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur				
2.Sampling Location				SW-(Khara Nallah Up Stream )				
3.Sample Quantity				2 Lts				
4.Sample Collected by				CEMCPL Representative				
Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	<5	<5	10	5	<5	<5	5
2	pH Value @ 25°C	8.03	8.09	7.68	8.01	7.41	8.4	7.93
3	Iron as Fe, Max	0.18	0.06	0.19	0.21	0.16	0.28	0.18
4	Chloride as Cl , max	29.9	31.2	41.9	42.9	30.9	23.9	33.1
5	Dissolved solid , max	203.8	211.2	352	364	218	250	266.5
6	Dissolved Oxygen, Min	5.4	5.8	5.9	6.1	5.1	6.0	5.71
7	BOD for 3 days@ 27 <sup>0</sup> C, Max.	2.6	2.4	2.8	2.6	2.8	<2	2.64
8	Oil & Grease, Max.	ND	ND	ND	ND	ND	ND	ND
9	Copper as Cu, Max.	005	<005	<005	<005	<005	<005	<005
10	Sulphate as SO <sub>4</sub> , Max	7.9	8.2	12.4	12.9	9.2	6.6	9.53
11	Nitrate as NO <sub>3</sub> , Max	5.3	5.4	5.6	5.1	6.0	5.4	5.47
12	Fluoride as F, Max	0.42	0.38	0.46	0.42	0.44	0.16	0.38
13	Anionic Detergent	ND	ND	ND	ND	ND	ND	ND
14	Cadmium as Cd, Max	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
15	Selenium as Se, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
16	Arsenic as As, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
17	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
18	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH	ND	ND	ND	ND	ND	ND	ND

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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20	Lead as Pb, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
21	Zinc as Zn, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
22	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
23	Total Coliform, Max.	130	154	156	140	120	31	122
24	Fecal Coliform, Max	9	21	13	9	11	2	11

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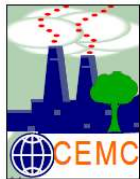
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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

Ref: CEMC32032214S2

Date: 30.05.2025

## SURFACE WATER QUALITY TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry				M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur				
2.Sampling Location				SW-1I(Khara Nallah Down Stream)				
3.Sample Quantity				2 Lts				
4.Sample Collected by				CEMCPL Representative				
Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	5	10	15	10	5	<5	9
2	pH Value @ 25°C	8.03	8.15	7.43	8.10	8.16	8.29	8.03
3	Iron as Fe, Max	0.18	0.20	0.26	0.24	0.18	0.22	0.21
4	Chloride as Cl , max	36.2	34.7	49.9	47.9	41.9	39.9	41.75
5	Dissolved solid , max	238	230.8	412	394	208	221	283.97
6	Dissolved Oxygen, Min	5.1	5.2	5.9	6.1	5.0	4.9	5.37
7	BOD for 3 days@ 27 <sup>0</sup> C, Max.	<2	<2	<2	<2	<2	<2	<2
8	Oil & Grease, Max.	ND	ND	ND	ND	ND	ND	ND
9	Copper as Cu, Max.	<005	<005	<005	<005	<005	<005	<005
10	Sulphate as SO <sub>4</sub> , Max	10.8	11.2	11.6	11.2	11.2	10.4	11.07
11	Nitrate as NO <sub>3</sub> , Max	6.6	8.1	4.9	4.1	8.0	7.4	6.52
12	Fluoride as F, Max	0.35	0.38	0.36	0.34	0.41	0.34	0.36
13	Anionic Detergent	ND	ND	ND	ND	ND	ND	ND
14	Cadmium as Cd, Max	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
15	Selenium as Se, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
16	Arsenic as As, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
17	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
18	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH	ND	ND	ND	ND	ND	ND	ND

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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20	Lead as Pb, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
21	Zinc as Zn, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
22	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
23	Total Coliform, Max.	198	219	233	220	177	210	209
24	Fecal Coliform, Max	17	38	34	26	14	21	25

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Ref: CEMC32032214S3

Date: 30.05.2025

## SURFACE WATER QUALITY TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry				M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur				
2.Sampling Location				SW-1II(Reservoir )				
3.Sample Quantity				2 Lts				
4.Sample Collected by				CEMCPL Representative				
Sl.no	Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Average
1	Colour, Max.	<5	<5	<5	<5	<5	<5	<5
2	pH Value @ 25°C	8.10	8.20	7.85	8.04	8.23	8.10	8.09
3	Iron as Fe, Max	0.22	0.26	0.22	0.24	0.31	0.28	0.25
4	Chloride as Cl , max	11.8	10.4	21.9	22.9	26.9	23.9	19.63
5	Dissolved solid , max	162.3	158.6	241	248	224	250	213.98
6	Dissolved Oxygen, Min	5.8	6.2	6.2	6.3	5.6	6.0	6.02
7	BOD for 3 days@ 27 <sup>0</sup> C, Max.	<2	<2	<2	<2	<2	<2	<2
8	Oil & Grease, Max.	ND	ND	ND	ND	ND	ND	ND
9	Copper as Cu, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10	Sulphate as SO <sub>4</sub> , Max	5.2	4.1	6.3	6.6	6.8	6.0	5.83
11	Nitrate as NO <sub>3</sub> , Max	3.4	3.8	3.6	4.1	5.4	5.4	4.28
12	Fluoride as F, Max	0.12	0.14	0.14	0.15	0.14	0.16	0.14
13	Anionic Detergent	ND	ND	ND	ND	ND	ND	ND
14	Cadmium as Cd, Max	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
15	Selenium as Se, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
16	Arsenic as As, Max.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
17	Cyanide as CN, Max	ND	ND	ND	ND	ND	ND	ND
18	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH	ND	ND	ND	ND	ND	ND	ND

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)

20	Lead as Pb, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
21	Zinc as Zn, Max.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
22	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
23	Total Coliform, Max.	23	17	44	55	25	31	32
24	Fecal Coliform, Max	4	2	6	8	2	2	4

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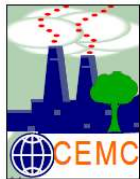
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Ref: CEMC32032214N1

Date: 30.05.2025

## NOISE LEVEL MONITORING TEST REPORT FOR THE MONTH OF OCT-2024 TO MARCH-2025

1.Name of the industry	M/s. Tata Steel Limited, Ferro Alloys Plant, Gopalpur
2.Sampling Location	N1-N4:MRSS,LBSS,CANTEEN, ETP
3.Instrument used	Noise Meter
4.Sample Collected by	CEMCPL Representative

Sl.no		Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		Average	
		Noise level in dB(A)		Noise level in dB(A)		Noise level in dB(A)		Noise level in dB(A)		Noise level in dB(A)		Noise level in dB(A)		Noise level in dB(A)	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
N1	MRSS	65.2	53.1	64.1	52.6	63.9	52.5	63.2	52.5	64.6	52.9	63.9	53.1	54.5	52.8
N2	LBSS	70.3	65.8	70.2	66.2	69.6	63.4	68.6	62.0	69.2	65.3	70.3	65.8	69.8	64.7
N2	Canteen	69.5	65.4	70.5	65.2	68.6	62.1	67.5	60.8	70.7	64.9	69.5	65.4	69.4	64.0
N4	ETP	68.4	66.2	69.5	66.1	68.7	65.8	67.8	65.0	69.1	66.0	68.4	66.2	68.4	65.9
Ambient air quality standards in respect of Noise for industrial area														75	70
No deviation from Ambient air quality standards in respect of Noise is observed and the values are within the standards prescribed															

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Athorized Signatory



Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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