



E&P/LDH/00131/2026
26th May 2026

To,
The Deputy Director-General of Forests (Central),
Directorate of Environment, Forest & Climate Change,
Integrated Regional office, Bays No.24-25,
Sector 31-A, Dakshin Marg, Chandigarh- 160 030

Subject: - Submission of half-yearly compliance report on the stipulated environmental clearance terms and conditions in respect of 0.75 million tons per annum (MTPA) of crude Steel Production through EAF at Industrial Plot A-1, Kadiana Khurd Village (Adjacent to Hi-Tech Cycle Valley), Ludhiana East Tehsil, Ludhiana District, Punjab by M/s Tata Steel Limited for Oct'25 to March 2026

Reference: - Environment Clearance Identification No. EC23B008PB183863, issue on dated 10/08/2023.

Sir,
Kindly find enclosed Six-Monthly Compliance Report for the period from Oct'25 to March 2026, for the conditions stipulated in Environmental Clearance of 0.75 million Tonnes Per Annum (MTPA) of Crude Steel Production Through EAF at Industrial Plot A-1, Kadiana Khurd Village (Adjacent to Hi-Tech Cycle Valley), Ludhiana East Tehsil, Ludhiana District, Punjab by M/s Tata Steel Limited for your kind considerations.

The copy of above compliance report also being sent in soft format through e-mail (seacpb2017@gmail.com) & (seiaapb2017@gmail.com) for kind perusal. Also copy of compliance report being uploaded on MOEF&CC Parivesh Portal.

We trust the information furnished is in line with your requirement.

Thanking you,
Yours sincerely,

David William Augustine
Chief, Ludhiana Project
Email - da.william@tatasteel.com
Mob - +91 620 790 1838

Encl: As above

Copy To:

- 1) The Member Secretary, State Pollution Control Board,
- 2) The Regional Officer, Ludhiana-I, State Pollution Control Board. Ludhiana.

TATA STEEL LIMITED

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Corporate Identity Number L27100MH1907PLC000260

S.no	Terms & Conditions	Compliance Status
1	Statutory compliance-	
a	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	Not applicable , as no forest land is part of the project.
b	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable , as area covered under the wildlife (Protection) Act 1972 is not involved in the project.
c	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)	Not applicable , as there is no schedule-I species present in the study area.
d	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board	Complied. Consent to Establish has been obtained from Punjab State Pollution Control Board via letter number – PBIP/PPCB/E-3/63111/2023/1, dated 30.10.2023. Copy of same attached as Annexure 1.
e	The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of groundwater and also in case of drawl of surface water required for the project. In case of non-grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent authority.	Complied. 1. Groundwater NOC has been obtained from Punjab Water Resource Development Authority vide permission number – PWRDA/1/06/2023/L3/67, Dated 20.06.23. Copy of NOC attached as annexure 2. 2. We had also made agreement with PSIEC to supply surface water from reservoir which is developed in Hi Tech valley. Copy attached as annexure 3.
f	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied. Authorization under Hazardous and other waste management rule has been obtained from Punjab Pollution control board via permission number – HWA/Auth/PBIP/LDH-1/2026/2511523847 on dated 27.04.26. Copy attached as annexure 4.
g	The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.	Being complied.

h.	The project proponent shall comply with the CLU conditions imposed by the competent authority, if any.	Complied. Industrial land plot no-A-1 have been obtained from Punjab Small Industries & Export Corporation who already complied CLU conditions.
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S.no	Conditions	Compliance Status
2	Air quality monitoring and preservation	
A	The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EM) 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 systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories	Shall be Complied. 1. Continuous Emission Monitoring System (CEMS) has been installed at inlet as well as outlet of stack attached with APCD. 2. Connectivity with CPCB and SPCB portal is under progress. 3. We will ensure that equipment will be calibrated through recognised NABL accredited laboratory.
B	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Fugitive emissions in plant premises is being monitored each month through NABL approved third party laboratory. Report attached as annexure 5.
C	The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for 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 emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Complied. Ambient air quality monitoring within and outside the plant premises is being done as recommended by board. Report attached as annexure 5.
D	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 emissions to the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Being Complied. 1. Continuous stack monitoring and manual Monitoring of process stack shall be initiated once plant get operational. 2. fugitive emissions are being monitored on monthly basis. Latest report attached as annexure 6.

E	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources	Complied. Air Pollution control device i.e. baghouse has been installed and connected with Electric arc furnace, Laddle furnace, Raw material handling area and Tundish area.
D	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags	Complied. Bag filter has been installed with broken bag detection system to identify any leakage and plus jet system for cleaning of bags.
E	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly	Complied. We have deployed one Vacuum cleaner, and 3 water sprinklers to contain and reduce fugitive dust emissions.
F	Recycle and reuse of 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 should be ensured.	Shall be Complied. We will dispose off through co-processing/ recycler/ TSDf facilities.
G	The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Shall be Complied.
H	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	Being Complied. We have made arrangement to store the raw materials i.e., Ferroalloys, lime, dolomite in plant premises under cover shed.
I	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Complied. Primary & secondary suction has been provided at melting furnaces.
J	Design and implementation of the ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.	Shall be Complied. We have provision to provide good air circulation facility in our plant to maintain the good working condition.
3	Water quality monitoring and preservation	
A	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied. We have started the ground water monitoring through third party NABL approved laboratory in plant as well as nearby village area. We have installed piezometer in plant area to monitor ground water table. Report attached as annexure 5.
B	Garland drains and collection pits shall be provided for each stockpile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	Shall be Complied. We will consider making garland drain and collection pit around stockpile area.
C	The project proponent shall practice rainwater harvesting to the maximum possible extent. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the	Being Complied. 1. We have started development work of Rainwater harvesting system to arrest run off water.

	technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields	2.We have constructed a STP through seechewal method in Khasi khurd and Kadiana Khurd village to treat the waste water generated from household. Treated water is being used in irrigation purpose.
D	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.	Complied. CETP, STP & Wastewater treatment plant has been installed to recycle and reuse of water to minimize the water intake.
4	Noise monitoring and prevention	
A	Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report	Complied. Noise survey has been conducted through third party. Report attached as annexure 7.
B	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during daytime and 70 dB(A) during night time.	Complied. We have conducted ambient noise level monitoring in plant area. And Noise level is being maintained under defined standards. Report attached as annexure 5.
5	Energy Conservation measures	
A	The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.	Complied. We had opted endless casting and rolling technology, hot billets will be directly fed to rolling process.
B	The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, streetlights, parking around project area and maintain the same regularly	Shall be Complied. Work is under progress to install solar streetlights & Rooftop solar
C	The project proponent shall provide LED lights in their offices and residential areas	Complied. We had installed LED lights in our office area.
6	Waste management	
A	Used refractories shall be recycled as far as possible	Shall be Complied. We will make arrangement to recycle the used refractory through approved vendor.
B	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's Regional Office	Not Applicable. Fly ash shall not be generated by industries.
C	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016	Being Complied. All hazardous waste shall be disposed off through authorised recycler and coprocessor.

D	Kitchen waste shall be composted or converted to biogas for further use.	Complied. Compost machine has been installed to convert organic waste to compost.
7	Green Belt	
A	Green belt shall be developed in an area of 15.36 ha (equal to 33% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 24000 tall saplings (minimum 6 feet height) of indigenous species such as Tun, Amaltas, Mulberry, Arjun, Jamun, Uttranjeeva, Kachnar etc. will be planted by September, 2025.	Being Complied. We have planted 27000 three-layer saplings along with plant boundary as per SEIAA guidelines and balance plantation activities will be carried out in upcoming monsoon. Photograph of greenbelt is attached as annexure 8. We have obtained 02 years extension (till Sept 2027) from SEIAA Punjab for completing remaining saplings plantation. Letter attached as annexure 9.
8	Public hearing and Human health issues	
A	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied. Emergency response plan has been prepared and implemented.
B	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act	Shall be Complied. Agreed and will be conducted as per identified heat stress area and mitigation measures shall be implemented as suggested in analysis report.
C	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Not applicable. There are no housing facilities to be constructed inside of plant boundary.
D	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied. We are monitoring the health condition of workers who are involved in project construction and record is being maintained.
E	The project proponent shall carry out the activities apart from CER activities and spent an amount as commuted during the public hearing as per the public hearing action plan	Being complied. We have started the work as per public hearing action plan which was submitted during EC process to SEIAA. Report attached annexure 10.
9	Environment Management Plan	
A	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe 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 / conditions to all / or shareholders / stake holders. The copy of	Complied. Environmental Policy of Tata Steel Limited is applicable for all location. Copy attached as annexure 11.

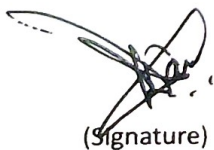
Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour Tata Steel limited at Industrial Plot A-1, adjacent to Hi-Tech Valley, village Kadian Khurd, Tehsil-Ludhiana (East), Distt. - Ludhiana, Punjab, for Oct'24 to March'2025. Environment Clearance Identification No. EC23B008PB183863. Issue on dated 10th Aug 2023.

	the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
B	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 report to the head of the organization	Complied. An Environmental Management Cell (EMC) has been formed, which is responsible for monitoring EMP and its implementation. Sr. Manager Environment is looking after environmental management at project site who reports to project in-charge (Ludhiana Project) and Head (Environment) at corporate level.
C	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 will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs 138.56 Crore towards the capital cost and Rs 5.48 Crores/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in application proposal	Shall be Complied. We will adhere the EMP budget incorporated in EIA report and fund will not get diverted to any other purpose.
D	Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report	Shall be Complied.
E	Self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.	Shall be Complied. We will conduct environmental audit after plant operation, and report shall be submitted along with compliance report.
F	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented	Being Complied. Applicable recommendations of CREP are being implemented in project.
10	Validity	
A	This environmental clearance will be valid for a period of ten years from the date of its issue or till the completion of the project, whichever is earlier	Agreed.
11	Miscellaneous	
A	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently	Complied. Environmental Clearance along with configuration & environmental safeguard has been published on 18 th August 2023 in Hindustan times in English and Punjabi Jagran in Punjabi language. And displayed on company website.
B	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Environmental Clearance copy has been submitted at all concern Government office with our letter no – E&P/LDH/27/2023 dated 6 th September 2023.

C	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis	Complied. We have uploaded the half yearly EC compliance on company website https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/ . Screenshot attached as annexure 12.
D	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	Shall be Complied. We have installed AAQMS and CEMS. Data will be displayed at convenient location for disclosure to the public and put on the website of the company after plant get operational.
E	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 Environment, Forest and Climate Change at environment clearance portal.	Complied. Compliance condition uploaded on Ministry of Environment, Forest, and Climate Change website Parivesh portal on dated 28.11.2025 with Compliance No. - EC/COMPLIANCE/580856778/2025
F	The project proponent shall submit the environmental 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.	Shall be Complied. We will submit after plant get operational.
G	The project proponent shall inform the Regional Office of the Ministry and PPCB, 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.	Shall be Complied. We have obtained CTO (Air & water) from Punjab Pollution control board on 11.03.26. And we will intimate regional office of the ministry and PPCB before start of production.
H	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Agreed & complied.
I	The project 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 SEAC and SEIAA	Shall be Complied.
J	No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	Agreed.

Monthly Compliance Report to the Terms of Conditions of Environmental Clearance granted in favour Tata Steel limited at Industrial Plot A-1,
 adjacent to Haryana valley village Kadian Khurd, Tehsil Ludhiana (East), Distt. Ludhiana, Punjab, for Oct'24 to March'2025.
 Environment Clearance Identification No. EC23R008PB183863, issue on dated 10th Aug 2023.

K	The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports	Agreed.
12	Additional Conditions	
A	The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report	Being Complied. We are submitting the tree plantation progress report along with compliance report. Attached as annexure 8.
B	The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM	Complied. Continuous Emission Monitoring System (CEMS) has been installed at inlet as well as outlet of stack attached with APCD.
C	The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal	Being Complied. Report attached as Annexure 13.
D	The project proponent will submit the revised EIA report incorporating the aforementioned observations of SEIAA within 60 days of grant of EC.	Complied, Revised EIA report has been submitted on dated 09.10.2023 with our letter no-E&P/LDH/0032/2023.
E	The project proponent will plant 24000 tall plants of indigenous tree species with minimum 8 feet height and at least 2 inches girth at collar height in 15.36 ha area (33% of total project area). Plantation should be completed by September 2025.	Being Complied. We have planted 27000 three-layer saplings along with plant boundary as per SEIAA guidelines and balance plantation activities will be carried out in upcoming monsoon. Planation Pics attached as annexure 8. We have obtained 02 years extension (Till Sept 2027) from SEIAA Punjab for completing remaining saplings plantation.
F	The project proponent will submit the detailed plan for implementing AEA activities at a cost of Rs 25.9 crores within 60 days of grant of EC. The details of the activities selected expenditure to be incurred thereon, and timelines of implementation (maximum 5 years) should be clearly specified in the plan	Complied. AEA cost of 25.9 crore has been submitted along with revised EIA report on dated 09.10.2023.
G	The EC granted is liable to be suspended in case of failure to comply with decisions at S. No.'s d to f above.	Complied.



(Signature)

Chief – Ludhiana Project
Tata Steel limited