

TS/TP/ADMIN/771

Nov 31,2024

The Director,
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines, Nagpur-440001

Dear Sir,

Sub: <u>Submission of half-yearly compliance status report of Environmental Clearance conditions for the period</u> "1<sup>st</sup> Apr 2024 to 30<sup>th</sup> Sep 2024" in respect of M/s. Tata Steel Limited, Cold Rolling Complex (West)

Ref: EC Letter File No. SIA/MH/IND1/421400/2023 dt. 15/12/2023

Dear Sir,

We are submitting here with Six-Monthly Compliance of Environmental Clearance for the above referred period for "Proposed expansion of existing production facilities for cold rolled coils & sheets (from 210000 TPA to 300000 TPA), hot rolled pickled skin pass coils (from 90000 TPA to 150000 TPA) and addition of new facility for hot rolled pickled galvanized coils (820000 TPA) located at plot no. S-76, MIDC, Tarapur Industrial Area, PO.- Boisar, Tehsil — Palghar, District - Palghar, Maharashtra-401506 by M/s. Tata Steel Limited CRC West" for your perusal and record.

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which shall certainly help us in our endeavor for further improve upon our Environmental management practices.

Thanking you,

Yours faithfully,

for Tata Steel Limited Cold Rolling Complex (West)

U. V. Mhatre

Sr. Area Manager, Safety & Env.

Encl. As above

CC: Sub Regional Officer, MPCB Tarapur 1.

#### **TATA STEEL LIMITED**

Cold Rolling Complex West

S 76 & F7/1 Tarapur Industrial Area P Box 22 Tarapur Industrial Estate Post Office District Palghar Maharashtra 401 506 India Tel 91 2525 295000

# HALF YEARLY COMPLIANCE REPORT

against the EC No: SIA/MH/IND1/421300/2023 Dated: 15-12-2023

# **Report Submitted By:**

# TATA STEEL LTD.

**COLD ROLLING COMPLEX – WEST** 

At: Plot No S 76, Tarapur Industrial Area, PO. Boisar, Tehsil & District Palghar, Maharashtra State.

Pin No - 401506

# Production status up to 30<sup>th</sup> Sep 2024.

SI. No	Product Name	Units	Valid up to	EC /CTE	Production	Capacity as
				Capacity	in H1 Fy 25	per CTO
1	Cold Rolled Coils & Sheets	TPA	28/02/2024	300000	114615	210000
2	Hot Rolled Pickled Skin Passed Coils	TPA	28/02/2024	150000	72197	90000
3	Hot Rolled Pickled Galvanized Coils	TPA	N.A.	820000		

# Specific Conditions: Condition wise Compliance is maintained as per described below

# **SEAC Conditions**

1. It was observed that, PP proposing the new buildings on the open area available within the plot area and proposes to provide only 21.3 % (2.15 Ha) green belt within plot boundary out of mandatory 40% Green belt (4.10 Ha) and deficit 22.4 % (2.26 Ha) is proposed in their residential colony area which is about 5.4 km from proposed project site. In view of significant impact the PP is creating at its current plot, adoption of Nature Based Solutions for green belt area should be kept as a principle of development and ecology preservation.

## **Compliance Status:**

- There are nearly 2500 no of sapling existing Inside TSL CRC West Plant, plot no S -76.
- 6000 no. of saplings are planted at TSL housing Colony In May 2024.
- 200 Trees are planted in Kolwade village. (plant surrounding area)
- 250 trees are planted adjacent to boundary wall. of plant for which MIDC approval has already being achieved.(enclosed as **Annexure I)**
- Total 7350 no. of saplings will be planted in 2024.
- Tree plantation is being done on the Nature Based solutions. (MIYAKAI Method) of tree plantation is adapted In Housing colony area.
- 2. The proposed site is in principle adequate however, the PP should set up Nature Based Solution Demonstration Centre along with Tinkering Lab, where students, researchers, farmers and others can come and learn the tools and techniques. This Should be undertaken in partnership with institutions such as IITs and NGOs.

#### **Compliance Status:**

The detail project report preparation is in progress under the guidance from experts from IIT and NGO to set up Nature Based Solution Demonstration Centre along with Tinkering Lab till Dec 2026.

3. PP to use CER to support within its own plot also, the concept of green nature based solution for the environmental issues on site where it should be shown to the students people the role of trees in air/noise pollution management, role of soil nature, water as per response of 7th September by CRC on this subject, tarapur..

## **Compliance Status:**

Will be complied after the implementation of Nature based solution Lab.

4. PP to relook into the plan to conserve the trees; if Not possible PP to obtain the tree cutting permission from the competent authority before starting any work on site.

#### **Compliance Status:**

450 No of trees are replanted out of which 65 % are success rate.

However necessary tree cutting permission from competent authority is obtained. Before start of any work on site. Attached as **Annexure – III.** 

5. PP to ensure compliance to all conditions stipulated in the CEPI guidelines.

## **Compliance Status:**

Compliance to CEPI guidelines are already submitted to SEAC. And will be implemented during the expansion project. The status of same is attached here as **Annexure - IV** 

6. PP proposses to provide Zero Liquid Discharge Effluent Treatment plant. PP to get the design of ETP vetted by the reputed Govt. institute like IIT/NIT etc. before commissioning of the proposed expansion activity.

# **Compliance Status:**

- TSL CRC West is a ZLD unit since last 6 Years. 340 KLD industrial wastewater is generated through process such as rinsing water from cleaning, pickling which is being treated in ETP of 350 KLD followed by RO Plant. The treated water has been used for industrial cooling purpose. And The solid waste of RO rejects and generated sludge is send to Mumbai waste management plant for disposal.
- During Expansion project it is proposed to enhance the capacity of ETP & RO plant. The design & engineering is in progress, once it is finalised it will be vetted by reputed Govt. institute like IIT/NIT etc.
- 7. PP to submit details of proposed solar power use envisaged in the project along with cost estimations..

## **Compliance Status:**

Tata Steel purchases solar power through open access which replaces the conventional usage of power.

In FY24 total 7149260 KWH power has been used from Solar power.

In FY25 there is a target in increasing the usage of solar power by 15% considering the cost of power.

Provision of lighting arrangements operating on Solar energy will be done as per CER Budget plan. (enclosed as **Annexure – II** 

8. PP to carry out detailed Quantitative Risk Assessment and submit report along with proposed mitigation measures and include it in the Disaster Management Plan.

#### **Compliance Status:**

- Quantitative Risk Assessment has been carried out for existing plant operations. The proposed mitigation measures
  are included it in the Disaster Management Plan. Both reports are submitted to DISH office. Copy enclosed as
  Annexure V
- It will be ensured for proposed expansion project as well.
- 9. PP to provide sewage treatment plant for the treatment of domestic sewage generated on site.

#### **Compliance Status:**

Existing Sewage Treatment Plant is adequate for treatment of current domestic waste water generation (20 KLD). Treated water STP is used for maintaining the green belt in the plant. ZLD condition is being maintained.

The proposed expansion of sewage treatment plant (35 KLD) will be done simultaneously with proposed expansion project.

10. PP to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.

#### **Compliance Status:**

- At the start of proposed project it will be ensured that skilled company employees will be deployed. On all critical / hazardous operations and storages of hazardous chemicals instead of contract workers.
- Necessary training before employment and regular safety training on SOPs is given.
- Existing employees training and refresher training records are attached in Annexure VI
- 11. PP to prepare chemical compatibility chart of all chemicals handled, Stored on site and ensure its storage / handling as per compatibility.

#### **Compliance Status:**

- The Chemical compatibility chart of all chemicals handled at site is enclosed as Annexure VII
- 12. PP to provide continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.

#### **Compliance Status:**

- Continuous online monitoring systems (CEMS) are provided to the stacks and data connected with MPCB and CPCB servers. Likewise, adequate facilities will also be provided at proposed expansion project.
- Environment monitoring test reports are enclosed in **Annexure VIII.**
- Presently VOCs are not used, stored, or Handled in the TSL CRC west.
- However VOC's monitoring has been scheduled in quarterly AAQ monitoring plan.
- 13. PP proposes parking outside the plot boundary on another plot a distance of 600 meters from the proposed project site. PP to ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicles shall be parked on the public road.

# **Compliance Status:**

- The Traffic management Plan is being followed to ensure smooth traffic movement of trucks carrying raw material and finished products.
- It is being ensured that no vehicle is parked on public road.
- To ensure smooth traffic due to proposed expansion project, TSL CRC West has proposed the provision for parking of 95 trucks in our TSL own plant which is away from the existing plant in MIDC at plot no. F 7/1. This facility will be used exclusively as Buffer parking place. layout enclosed as **Annexure IX**
- 14. PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with the District Administration, A proper CER plan to be prepared and shared with the committee / authority.

**Compliance Status:** The CER which was presented to SEAC for recommendation for EC is in place. The same is in implementation stage . few highlights of CER are listed below.

- The CER expenditure will be started simultaneously along with the start of implementation of the project on ground.
- We herewith undertake to complete the CER works within 3 years from the date of start of implementation of proposed expansion project.
- The details timeline with physical works is provided in CER action plan as Annexure II.

15. PP to ensure to prepare and implement On-site and Off-Site emergency handling plan. The plan shall be prepared based in the Job Safety Analysis, Risk Assessment etc. Required training to all employees be provided on the emergency handling plans.

#### **Compliance Status:**

- Onsite and Offsite Emergency Handling plan has been prepared based on the Job safety analysis and Risk assessment and submitted to DISH office on Feb 2024 enclosed as **Annexure-V**
- Regular training is provided to emergency response teams and other employees as well.
- Necessary compliances to this plan are being maintained.
- Regular mock drills are conducted and reports are submitted as per guidelines.
- 16. PP to complete rain water harvesting facility before the commission of the manufacturing activity.

## **Compliance Status:**

Rainwater harvesting provisions are made for existing plant sheds, the collected water is used as industrial cooling,
 Firefighting etc. However necessary arrangement will be done for rain water harvesting in proposed expansion project plant.

# **SEIAA Conditions:**

1. PP has obtained plan approval from MIDC dated 17.06.2023 and as per the plan their plot area is 10.09 Ha and they have proposed green belt 2.845 ha i.e. 28.14% of total plot area. PP further undertaking dated 02.08.2023 stating that , they will develop green belt of 2.26 Ha on their land i.e. TSL Housing Colony. Total green will be 5.10Ha. i.e., 50.54 % of total area. MIDC to ensure the compliance of the same.

#### **Compliance Status:**

- The copy of the Affidavit is on Green coverage declaration is enclosed as **Annexure X**.
- Compliance to this is achieved as, per details of tree plantation given in compliance to SEAC Condition no 1
- 6000 no. of saplings are planted at TSL housing Colony In May 2024.
- 250 trees are planted inside plant
- PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt Of Maharashtra circular no Sa VaVi-2019/C.R.3/F-11, dated 25th June 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts/arborist.

## **Compliance Status:**

- The species being planted are as per suggested in the condition. (Examples are: Karanj, Arica Palm, Mahagoney, Conocarpus, Juniperious, Kanel, Hibicus, Tecoma, Bottel brush, Arjun, Putranjiva, Ashoka, Juniperus, Baniyan, Neem. etc.
- The said plantation is being completed, under the guidance of Miyawaki technique Expert.
- 3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.

# **Compliance Status:**

- All the CTO conditions related to solid waste Management are complied. CTO copy enclosed as Annexure XI
- The solid wastes such as metal scrap and wooden scrap generated within plant are disposed through auction process to authorised party.
- · HDPE Plastic packing material is sold to authorised recyclers. Form V is enclosed as Annexure XII

4. PP to strictly observe the Hazardous and Other wastes (Management and Trans Boundary Movement) Rules, 2016 as amended time to time.

#### **Compliance Status:**

- Trans boundary Movement of hazardous waste is not applicable as no such activity is done by TSL CRC west.
- The Hazardous Waste generation, disposal and maintenance being done as per HZW and other Waste Management Rule 2016. All the CTO conditions are complied.
- Quantity of Hazardous waste is given in Form V. Enclosed as Annexure XII
- 5. PP to identify all sources of Fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air ( Prevention and Control of Pollution) Act, 1981 amended time to time.

## **Compliance Status:**

- Noted and is being complied.
- All the roads inside plant are paved. To prevent dust generation.
- All the necessary provisions will be done to prevent dust generation during construction phase of proposed expansion project.
- PP to ensure storage of chemicals as per the Manufacturer, Storage and Import of Hazardous Chemical Rules,
   1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.

# **Compliance Status:**

- TSL CRC west has achieved is accident free 11 Years. (Zero Reportable Accidents)
- All the requirements related to storage & Handling of chemicals are compiled as per Manufacture, Storage and Import of Hazardous Chemical Rules 1989.
- 7. PP to ensure transport, storage, handling and use of the flammable /toxic chemicals as per conditions stipulated in License/Approval of the Petroleum & Explosive Safety Organization (PESO)

## **Compliance Status:**

- Necessary approvals are obtained for storage of LIQUID Nitrogen storage License no S/WC/MH/03/671(S106361), and Hydrogen Gas (H<sub>2</sub>) License No S/HO/MH/03/988(S26540). Copy of both licenses is enclosed as Annexure XIII.
- 8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all conditions stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendations of the Audit.

# **Compliance Status:**

- The Proposed Plant layout is Approved by Joint Director. DISH, document Reference no 129000000024860 dated 29/06/2021 is enclosed as **Annexure XIV**
- and factory license no :10032457 Regd. number 12900241050T-00 issued by DISH dated 14/11/2023 has been issued valid up to 31st December 2028. enclosed as **Annexure XV**
- The safety audit conducted by competent party in July 2023 and compliance report submitted to DISH is enclosed as **Annexure XVI.**
- 9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking area...

#### **Compliance Status:**

- The project purchase solar power of 7149260 KWH in FY 24 as TSL CRC West, Tarapur which is being used for illumination of Administrative Buildings, streetlights, parking areas along with other purposes.
- Solar energy operated lights will be provided for illumination of Admin Building. Streetlights etc. during expansion project.

10. PP to ensure use of briquette/bio-coal/pellets/or and such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste, not less than 50% of the total fuel requirement to the boiler.

## **Compliance Status:**

- This condition is not applicable to TSL CRC west because only PNG is used as a fuel in the factory as per Process requirements. (Except HSD is used as fuel for The DG set which is used in case for emergency lighting only.)
- 11. PP to provide roof top rain water harvesting facility.

## **Compliance Status:**

- Rainwater harvesting provisions are made for existing plant sheds, The rain water from roof is collected in artificial tanks, and the collected water is used as industrial cooling, Firefighting etc.
- Similar arrangement for roof water collection will be done in proposed expansion project plant also.
- 12. PP to ensure that, proposed project is ZLD unit.

#### **Compliance Status:**

- TSL CRC West unit is ZLD since last 6 years. ZLD conditions has been maintained.
- TSL CRC West is a ZLD unit since last 6 Years. 340 KLD industrial wastewater is generated through process such as rinsing water from cleaning, pickling which is being treated in ETP of 350 KLD followed by RO Plant.
- The treated water has been used for industrial cooling purpose. And The solid waste of RO rejects and generated sludge is send to Mumbai waste management plant for disposal.
- ZLD conditions will maintained in proposed expansion project also.

# **General Conditions:**

I. The Project Proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of the issue of this letter, informing that the project had been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board website of the company and may also be seen at Website at http://parivesh.nis.in

#### **Compliance Status:**

- EC published in 2 newspaper on 15 January 2024 : i) Marathi Lok Shakta : Mumbai edition and ii) English Indian Express : Mumbai Edition. enclosed as **Annexure XVIII.**
- Communicated the EC copies to MPCB in online portal, screen shot enclosed as **Annexure XVIII.**
- The EC published in the company website vide Link 4-ec crc-west.pdf (tatasteel.com)
- II. The Project Proponent shall upload the status of compliance (Soft copies) of the conditions stipulated Environmental clearance letter including monitoring data of air, water, soil noise etc on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Control Board, SEIAA and Regional office of MOEF&CC at Nagpur, on 1st June and 1st December of each calendar year.

# **Compliance Status:**

- The Environment clearance for TSL CRC West has been received EC Identification No EC23B008MH178573 on 15 December 2023. The compliance for the period of January 2024 to March 2024 will be submitted to the Parivesh Portal by 1st Dec 2024.
- The copy of the compliance report will be available at company's website <a href="www.tatasteel.com">www.tatasteel.com</a> (Home-Sustainability-Environment-Environment Management-Compliance)
- III. A separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The fund earmarked for the environmental protection measures shall not be diverted for other purpose and year wise expenditure should be reported to the MPCB and the SEIAA.

## **Compliance Status:**

The Environment Management plan is in place. The same is being followed. Enclosed as Annexure -XVII

IV. A separate Environment Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards

**Compliance Status:** 

- Environment Management Cell has been formed with suitable hierarchy. The same is enclosed as Annexure XIX.
- V. In the event of failure of any pollution control equipment the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained

**Compliance Status:** 

- Will ensure and comply the same whenever the event occurs.
- VI. PP to strictly follow conditions stipulated in the Consent of Establish / Operate issued by the Maharashtra Pollution Control Board

**Compliance Status:** 

- All the conditions stipulated in the CTE/CTO are being complied. and regular submit the compliance reports to MPCB.
- VII. PP to Provide separate drains for storm water and effluent and ensure that the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain

**Compliance Status:** 

- TSL CRC West is ZLD unit. Separate rain water drains are provided. Complied as per the conditions.
- VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the MPCB.

**Compliance Status:** 

- TO carry out the ground water monitoring by credible Government institute, Tata Steel is seeking the permission from MIDC.
- Post receiving the permission from MIDC, Monitoring and analysis will be done by government approved agency and the report will be submitted to MPCB.
- IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc

**Compliance Status:** 

- Overall noise levels are within the limit. Regular noise monitoring is being done by 3<sup>rd</sup> party. Adequate noise control measure like noise Acoustic Enclosure for DG set, Providing proper PPEs like ear plug / muff etc being provided to the employees who are exposed to high noise level.
- X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.

**Compliance Status:** 

The plant is cold Rolling process and is operating with PNG. No gas / highly flammable liquid is being used or stored within the plant premises for any purpose.

Regular safety training, awareness programs, safety line walks, audits etc. being carried out by all employees including contractual employees.

XI. PP to scrupulously follow the requirement of Maharashtra Factories Act 1948 and rules 1963 as amended from time to time

**Compliance Status:** 

- · Complied as per the conditions.
- On line compliance monitoring system is followed. 100 % compliances achieved to applicable tasks related to The Factory Act & Maharashtra Factories Reules.

XII. The Environmental Statement for each financial year ending on 31<sup>st</sup> March in form V as is mandated to be submitted by the PP to the concerned Pollution Control Board as prescribed under Environment Protection Rule 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance conditions stipulated in the Environment Clearance letter.

**Compliance Status:** 

- The latest Environment Statement (form V) for FY'23 has been submitted to MPCB on 6 September 2023. The same has been uploaded in the company website also.
- The copy of the latest Environment Statement is enclosed as Annexure XII.

**Enclosed Documents: Below are the Annexures List.** 

SI. No	Annexure List		
I	MIDC Approval for tree plantation surrounding the plant boundary		
II	CER budget plan		
III	Tree cutting permission from Forest Office		
IV	Compliance to CEPI guidelines		
V	Submission of Risk Assessment & On Site Disaster Control Plan.		
VI	Safety Training records		
VII	Chemicals Compatibility Chart		
VIII	Environment Monitoring Report		
IX	Provision of vehicles Parking Place at Plot no F - 7/1		
X	The Declaration on Green coverage		
XI	Copy of existing CTO & Application for CTO Renewal.		
XII	copy of Form V		
XIII	PESO Approvals - License for H2 & N2		
XIV	Factory Plant Layout Approval from DISH		
XV	Factory License from DISH		
XVI	Third Party Safety Audit Report & Compliance		
XVII	Environment Management plan		
XVIII	EC Communication in News Paper Notice & Mail to MPCB.		
XIX	Environment Management Cell		

**END OF THE SELF AUDIT REPORT**