

Environmental Clearance (EC)
M/s. Tata Steel Limited, Khopoli
EC Identification No. EC24B000MH163028, Dated: 05/01/2024.

Six Monthly EC Compliance Report

EC Identification No. EC24B000MH163028, Dated: 05/01/2024)

(April,24 to Sept,24)



TATA Steel Limited, Khopoli
At. Isamba Fata, Po. Savroli, Tal. Khalapur, Dist. Raigad,
Maharashtra - 410203

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SEAC Conditions

1	PP to ensure that there shall not be any increase in the capacity of rolling mill/coils/sheets/pipes & tubes etc as presently consented by the Maharashtra Pollution Control Board	Manufacturing capacity of the rolling mill/coils/sheets/pipes tubes etc. will not be increased, from present consent granted by Maharashtra Pollution Control Board. permission.
2	PP to carryout soil and ground water sampling analysis based on the identification of control site outside the premises and collect soil and ground water samples in and around the proposed site. PP to choose parameters to be analyzed based on the use of raw materials and finished products by their earlier owner of the site and all other parameters including heavy metals. PP to compare these results with the control site result and prepare and implement appropriate mitigation plan to address soil and ground water contamination issue. PP to carry out this study by the reputed credible Government Institute.	Study of soil and ground water sampling analysis based on the identification of control site, outside the premises and collect soil and ground water samples in and around the proposed site including heavy metals order placed to NEERI for detail study. (PO No. 3000176361/K05 dated 8.10.2024)
3	PP to submit certified copy of certified compliance of existing Consent to Operate to be obtained from the Maharashtra Pollution Control Board.	We have obtained a CTO compliance report. from MPCB office vide letter no. MPCB/ROR/TB/Compliance-221102-F1S-0215 dated 02.11.2022 basing on requirement of TOR of SEIAA during processing of EC (The certified CTO compliance from MPCB is attached in Annexure-I). However, in the meantime after getting EC and renewal CTO, we have requested to MPCB for the existing CTO certified compliance, which is under process at MPCB, after getting from RO, MPCB the same will be intimated to MOEF&CC
4	PP to carryout soil sampling analysis based on the identification of control site outside the premises and collect soil samples in and around the proposed site. PP to choose parameters to be analyzed based on the use of raw materials and finished products by their earlier owner of the site and all other parameters including heavy metals. PP to compare these results with the control site result and prepare and implement appropriate mitigation plan to address soil contamination issue. PP to carry out this study by the reputed credible Government Institute.	Study of soil and ground water sampling analysis based on the identification of control site, outside the premises and collect soil and ground water samples in and around the proposed site including heavy metals order placed to NEERI for detail study. (PO No. 3000176361/K05 dated 8.10.2024)
5	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to get ZLD design vetted by reputed Govt. Institution like IITs/NITs	We have installed Zero Liquid Discharge Effluent Treatment Plant. The total existing ZLD system is vetted by IIT, Mumbai during his study is attached in Annexure-II .
6	PP to obtain permission for Rainwater Harvesting bore pit from the Competent Authority.	Obtained CTO from MPCB vide letter no. Format1.0/CAC/UANNo. 0000160053/CR/2306001509 dated 21.06.2023, point no.2 under Scheduled-IV of General Condition stipulated for compliance that, "to harvest the rain water and recharge the ground water and utilize the same for different industrial application". We have developed two rainwater harvesting storage system from rooftop and utilizing the same in our process. However, we are in the process of bore pit recharging of rainwater from roof top and utilizing the

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		same. We will intimate latter after completing all rainwater bore pit recharging
7	PP to submit details of proposed solar power use envisaged in the project along with cost estimations.	Tata Steel has signed an agreement for purchasing 15MW green power (RE) for KHOPOLI Unit, from Tata Power trading company limited effective from 1 st July,24. We have started using green power(RE) from 1st July 24 at KHOPOLI unit.
8	PP to submit adequacy report of all the stacks exists on site w.r.t type of fuel , equipment design and height of stack to ensure all emission are under prescribed limits all the time.	Adequacy study of the existing stack conducted by IIT, Mumbai and found emissions are within the limit. The detail stack adequacy report of IIT, Mumbai attached in Annexure-III .
9	PP to carry out detailed Quantitative Risk Assessment and submit report along with proposed mitigation measures.	Detailed Quantitative Risk Assessment done by various departments and captured centrally in Business Risk Identification under BRISK.
10	PP to prepare and submit VOCs monitoring and control management plan	We are monitoring VOC at ambient and work zone areas with an NABL/MOEF&CC approved third party. Total VOC are within the limit.
11	PP to submit copy of MOU executed with the authorized vendors for disposal of wastes (Hazardous/Non-hazardous) generated on site.	We have taken life membership of Mumbai Waste Management Limited (MWML) and did an MOU with MWML. The certificate of MWML membership is attached in Annexure-IV
12	PP to obtain necessary tree cutting permission from the competent authority before taking any effective steps on site if any tree cutting is envisaged.	Noted and will be complied if any tree cutting is required.
13	PP to submit adequacy report of all the stacks exists on site w.r.t type of fuel, equipment design and height of stack to ensure all emission are under prescribed limits all the time.	Adequacy study of the existing stack conducted by IIT, Mumbai and found emissions are within the limit. The detail stack adequacy report of IIT, Mumbai attached in Annexure-III .
14	PP to ensure 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.	Complied.
15	PP to prepare chemical compatibility chart of all chemicals handles, stored on site and ensure its storage/handling as per compatibility.	Chemical compatibility chart of all chemicals handles, stored on site and its MSDS displayed at site.
16	PP to provide Continuous Online Monitoring System connected to the servers if CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.	We have provided 2 CAAQMS, 1CEMS, and 1EQMS and the real time data connected to MPCB server. We have included VOCs in scheduled ambient Monitoring Benzene, Benzo(a)pyrene in ambient. The Ambient air monitoring report for the month of October is attached in Annexure- V
17	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw materials and finished products. No vehicle shall be parked on the public road.	We have provided separate designated space, exclusively for parking of all types of vehicles including external vehicles carrying raw materials and finished products. No vehicles are parking in public road.
18	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.	We have On-site emergency plan approved by the director of factory and safety, Maharashtra. We are following and implementing the same

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	Required training to all employees be provided on the emergency handling plans.	at our site involving all employees to handle the emergency. Detail Onsite emergency Preparedness Plan is attached in Annexure-VI
19	PP to complete rainwater harvesting facility before the commission of the manufacturing activity.	We have developed rainwater harvesting facilities (19*10,000L) =1,90,000 lit. and 3lakhs m3 storage capacity of rain water and utilize in plant process.

SEIAA Conditions

1	PP submitted undertaking dated 31.10.2023 stating that, they have proposed green belt having area of 20.82 Ha. Which is 33% of total plot area. Planning authority to ensure the compliance of the same.	We have developed 35.56%green belt by covering 55100 nos of saplings as on date inside the plant. Total cumulative 73050 no's saplings planted as on date inside and outside of the plant covering 47.1% in 29.75hect. of land area. We will get certificate from MPCB authority. Detail cumulative plantation (Green Belt) is attached in an Annexure-VII
2	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 25 th June 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts/arborist.	We have planted native and indigenous plants.
3	PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.	Noted
4	PP to strictly observe the Hazardous and Other wastes (Management and Trans Boundary Movement) Rules, 2016 as amended time to time.	We are strictly following the Hazardous and Other wastes (Management and Transboundary Movement) Rule , 2016 as amended time to time.
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.	We have identified the fugitive air pollution site and monitoring through a NABL accredited lab and meeting the standard.
6	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.	We are strictly following the 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)	Complied as applicable
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.	Complied as per applicable.

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9	PP to provide solar energy for illumination of Administrative Building, Street Lights, and parking area.	We have provided a natural exposure path to sunlight directly through transparency sheet in middle of the administrative building. Rest streetlight and parking area will comply after RE agreement.
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.	At present we are not operating reheating furnace. We have not utilized any solid fuel such as coal, only RLNG is used as a fuel in process.
11	PP to provide roof top rainwater harvesting facility.	We have provided rooftop rainwater harvesting and utilization facility at LDP and NCRM.
12	PP to ensure that, proposed project is ZLD unit.	Complied, online EQMS installed and data transmitting to MPCB

General Conditions

1	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 issue of this letter, informing that the project has 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.nic.in	We have advertised two local newspapers on 9.1.2024, which is widely circulated in Maharashtra region within 7 days of issued EC letter on 9.1.2024. one is in Marathi and the other one is in English. Copy of the advertisement is attached in Annexure-VIII (a)(English-Indian Express) and Annexure-VIII (b)(Marathi-Loksatta)
2	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 and 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 the Regional Office off MoEF&CC at Nagpur on 1 st June & 1 st December of each calendar year.	We will upload the status of compliance of EC letter including monitoring data in our website and the half yearly compliance report submitted to the Maharashtra Pollution Control Board, SEIAA and the Regional Office of MOEF&CC at Nagpur.
3	Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific timeline for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year –wise expenditure should be reported to the MPCB and SEIAA.	Noted and will be comply.
4	A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.	Complied.
5	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.	Noted and Agreed.
6	PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.	Noted and Agreed
7	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.	We have separate drain for storm water and effluents. Our effluents are collected separately through pipeline directly to ETP. No way the trade effluents are mixed with storm water drain.

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8	Periodic monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Periodic monitoring of ground water is carried out and the result is submitting to Maharashtra Pollution Control Board. The last ground water monitoring is attached in Annexure-IX
9	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 earmuff and ear plug etc.	We have provided adequate noise control measures and protective equipment's like earmuff and ear plug etc. Noise monitoring in and around the plant premises monitored and the latest third-party ambient noise monitoring report is attached in Annexure-X
10	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.	We have provided safety measures to mitigate the identified risk. As required, we have provided the possible leak detection system at some emergency areas for mitigation purposes.
11	PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.	Agreed and following
12	The Environmental Statement for each financial year ending on 31 st March in Form-V as is amended to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the 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 of the conditions stipulated in the Environmental Clearance letter.	Complied, We have regularly submitting the Environmental Statement in Form-V to Maharashtra Pollution Control Board (MPCB) . Copy of of the last year Environmental Statement is attached in Annexure-XI