Member Secretary,
State Environmental Impact Assessment Authority (SEIAA), Odisha
Bhubaneswar – 751 023, Odisha

TSK/Env/C-05/ ***10*** */2025-26*
26th May' 2025

Dear Sir,

Sub.: Six Monthly Compliance Report for Oct'24 to Mar'25, for Environmental Clearance for Residential Complex of Tata Steel at Kalinganagar Industrial Complex, Jajpur, Odisha.

Ref.: (i) EC Granted by SEIAA vide Letter No. SEIAA/ 4669 dated 17.08.2015
(ii) EC validity Extension granted by SEIAA vide File No. SIA/OR/MIS/271482/2022 dated 04.05.2023.

We enclose herewith Six-Monthly Compliance Report for the period from Oct'24 to Mar'25 for the conditions stipulated in Environmental Clearance on 17.08.2015 and subsequent validity Extension dated 04.03.2023 granted by SEIAA, Odisha for construction of Residential Complex of Tata Steel Plant located at Kalinganagar Industrial Complex, at Khurunti and Gadapur, Dist. Jajpur, Odisha for your kind considerations.

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

Thanking you,

Yours faithfully,

Raju Agrawal
Head, Environment, TSK

Encl. a/a

Copy to: The Deputy Director General of Forests (C), Integrated Regional Office, MoEF&CC, BBSR for his kind perusal.
The Member Secretary, OSPCB Bhubaneswar
The Regional Officer, OSPCB Kalinganagar

TATA STEEL LIMITED

Construction of Residential Complex
For
Tata Steel Plant located at
Kalinganagar Industrial Complex,
at Khurunti and Gadapur, Dist- Jajpur, Odisha

Environment Compliance Report
(Oct'24 to Mar'25)

Environment Department
Tata Steel Limited
Kalinganagar Industrial Complex
Duburi- 755026
Dist- Jajpur, Odisha

GENERAL CONDITIONS		STATUS AS ON 31.03.2025
1.	The Project Proponent shall comply with all the conditions stipulated in the building approval letter.	We are implementing the project in strict adherence to the conditions stipulated in the building approval letter, vide KNDA letter no: BP/115/18(Revised) 1124/KNDA dated 15.12.2018. The implemented measures include: 1. Drawing confirming to KNDA (Planning and building Standards) regulation 2017, in terms of all building parameters including parking and plantation norms. 2. The land designated for construction is accessible via an approved means of access, 35 meters in width. 3. Parking space measuring 29,016.32 sqm has been handed over for occupancy as part of the project, against the approved 40,463 sqm detailed in the KNDA plan. 4. Occupancy certificates have been obtained and submitted to KNDA for the following buildings prior to their occupancy: Building D Wing A Building E Wing A & B Building F Wing A, B, & C Building G Wing A, B, & C 5. Necessary approvals, including a No Objection Certificate (NOC) from the Airport Authority of India, have been obtained as per statutory requirements.
2.	The applicant (Project proponent) will take necessary measures for preventions, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by them in form-1, form-1A, and Environment Management plan (EMP) in compliance with the prescribed statutory norms and standards.	Measures are being undertaken to ensure the prevention, control, and mitigation of various types of pollution, as outlined in Form-1, Form-1A, and the Environmental Management Plan (EMP), adhering to the prescribed statutory norms and standards: **1. Air Pollution Control:**

GENERAL CONDITIONS		STATUS AS ON 31.03.2025
		• Regular water sprinkling is being carried out to minimize dust emissions. • Sand quarries are maintained in a covered state. • Cement for construction activities is transported to the site using closed cement bulker trucks. • A Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed at the residential complex to monitor air quality 24x7. **2. Water Pollution Control:** • Rainwater harvesting has been implemented with 60 recharge pits operational. • A sewage treatment plant (STP) of 1000 KLD capacity is functional to treat wastewater effectively. **3. Solid Waste Management:** • Solid waste generated at the site is collected, segregated, and disposed of at regular intervals. • Wet waste is processed into manure using two Organic Waste Converters (OWCs), each with an input capacity of 200 Kg/day. **4. Rainwater Harvesting and Percolation:** A rainwater harvesting cum percolation pond with a capacity of 46,000 m³ has been constructed and is operational.
3.	The applicant will take statutory clearance/ approval/ permissions from the concerned authorities in respect of the project as and when required.	Statutory clearance/ approval/ permissions from the concerned authorities have been obtained in respect of the project as and when required, which includes: 1. Approval from Kalinganagar Development Authority (KNDA). vide KNDA letter no: BP/115/18(Revised) 1124/KNDA dated 15.12.2018. 2. NOC from Director General of Civil Aviation for building height.

GENERAL CONDITIONS		STATUS AS ON 31.03.2025
		Vide AAI NOC ID No-BHUB/EAST/B/110215/213874 & BHUB/EAST/B/091424/1227852 vide dated 17.09.2024. 3. NOC from Fire Department, Odisha. Vide Certificates no-03/FPW dated 31.01.2019 15/FPW dated 30.11.2019, 03/FPW dated 12.01.2021, 19/FPW dated 18.08.2021, FIRCER1101010062024004354 dated 22.04.2024, FIRCER1101010062024005082 dated 19.09.2024 & FIRCER1101010062024005080 dated 19.09.2024 4. CTE and CTO from Odisha State Pollution Control Board. CTO: OSPCB vide Letter No. 4649 dtd.30.03.2024. CTE: OSPCB vide. letter No. 17242 dtd. 31/10/2015 5. Occupancy certificate from KNDA. Vide KNDA letter no: BP-115/18/161/KNDA Dated 14.03.2019, BP-115/18 (Part II) 244/ KNDA Dated 29.02.2020, BP-03/21-828 / KNDA Dated 26.04.2022, BP-161/21 & 91/22-(Part-IV) 1199/KNDA dated 11.07.2022, & BP161/21/91/22 & 91/22 (2) – (Part -V) 851/KNDA dated 06.09.2024.
4.	The applicant will submit half-yearly compliance report on post environmental monitoring in respect of the stipulated term and conditions in the environmental clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environmental & Forest, Odisha, on 1st June and 1st December of each calendar year.	We are adhering to the condition and diligently submitting the six-monthly compliance reports within the stipulated timeframe. The latest Six-monthly compliance report for the period April 2024 to September 2024 was submitted to MoEF&CC Regional Office / OSPCB vide letter no. TSK/Env/C-05/64/2024 dated 27.11.2024.
5.	The project proponent shall obtain periodic Occupancy Renewal Certificate from the Competent Authority at an interval of 3 to 5 years as per the provisions of National Building Code (NBC) 2005.	We have obtained the Occupancy certificate from Kalinganagar Development Authority on 14.03.2019, 29.02.2020, 26.04.2022, 11.07.2022 and 06.09.2024.

	GENERAL CONDITIONS	STATUS AS ON 31.03.2025
6.	The proponent shall comply to all the conditions stipulated by the Fire Prevention Officer, Odisha.	Conditions being complied as stipulated in the Fire Safety Certificates issued on 31.01.19, 30.11.2019, 12.01.21, 18.08.2021, 22.04.2024 and 19.09.2024 by the Chief Fire officer, Fire prevention wing.
7.	The Applicant will adopt the prescribed norms, and standards provided in the national Building Code of India 2005.	We are fully complying with the prescribed norms and standards as outlined in the National Building Code of India 2005. Key measures include: **Fire Tender Route:** A 6-meter-wide fire tender route has been provided to ensure smooth access during emergencies. **Building Setbacks:** Setbacks are being maintained in accordance with the guidelines stipulated in NBC 2005. **Lifts:** Lifts have been installed in each tower to enhance accessibility and meet NBC 2005 standards. **Floor Area Ratio (FAR):** The FAR has been maintained at **0.59**, ensuring compliance with prescribed limits. **Firefighting Systems:** Firefighting systems have been installed in each tower, tailored to the specific building heights, as per NBC 2005 norms. **Design Data:** All building design elements comply with technical parameters based on NBC 2005 provisions.
8.	Consider the peak water consumption of the occupants, the design of the water supply system and sewage disposal system of the project should be based on the provisions of the water consumption.	The water supply system and sewage treatment system of the project are designed based on the peak water consumption. The projected water consumption is 650 KLD, and the effluent treatment capacity is 1000 KLD at full capacity. The current water consumption ranges between 450-500 KLD.

GENERAL CONDITIONS		STATUS AS ON 31.03.2025
9.	The Project Proponent should ensure advertising in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language informing the public that the project has been accorded environment clearance and copies of clearance letters are available with SEIAA, Odisha and the State Pollution Control Board (SPCB) And may also be seen on the website of the board. The Advertisement shall be made within 7 days from the date of issue of the environmental clearance & a copy of the same should be forwarded to the regional office of MoEF, Bhubaneswar.	Details of Newspaper advertisement are as below: - Newspaper — Language — Date New Indian Express — English — 15.09.15 Samay — Odia — 15.09.15 Copy of the advertisement was submitted to SEIAA/MoEF/OSPCB vide our letter KPO/Env/C-08/61/2015 dated 18.09.2015. Please refer **Annexure-1**.
10.	A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, where received while Processing the proposal. The clearance letter shall also be put be on the Website of the Company by the proponent.	Copy of EC was submitted to Sarpanch-Sarangapur Gram Panchayat and Zila Parishad vide our letter no KPO/Env/C-08/62/ 2015 dated 18.09.2015. Copy of EC was submitted to Kalinganagar Development Authority (KNDA) on 10.09.2015 vide letter KPO/CS/0135/15.
11.	The Proponent Shall upload the status of compliance of the stipulated environmental clearance conditions, including result of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF, SEIAA, Odisha, the respective zonal Office of CPCB and SPCB.	Status of compliance of the stipulated environmental clearance conditions, is available in company's website https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/ We are submitting the six-monthly compliance report in stipulated time. Last Six-monthly compliance reports for the period Apr'24 to Sep'24 was submitted to the Regional Office of MoEF&CC, SEIAA, Odisha, the respective zonal Office of CPCB and SPCB in soft copy on 27.11.2024. Environmental Monitoring Data for Period Oct'24 to Mar'25 is attached as **Annexure-2.**

	GENERAL CONDITIONS	STATUS AS ON 31.03.2025
12.	The Environment statement for each financial year ending 31st March in form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the Status of compliance of environmental clearance conditions and shall also be sent to the respective regional Officers of the Ministry by e-mail.	Both, Environment Statement and Status of Compliance of EC conditions are available on company's website. https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/
13.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal act, 2010.	We acknowledge that any appeal against this Environmental Clearance (EC) filed with the National Green Tribunal within 30 days, as stipulated under Section 16 of the National Green Tribunal Act, 2010.

A. CONSTRUCTION PHASE

	SPECIAL CONDITIONS	STATUS AS ON 31.03.2025
1.	No ground water shall be extracted for the project work at any stage during the construction phase. If ground water will be used during construction phase, they shall obtain permission from the Water Resource Department.	The condition has been fully adhered to, as no groundwater has been extracted for construction activities. Details of the water arrangement for the project are as follows: Current Water Source: Present water requirement of 450-500 KLD is being sourced from the Tata Steel Plant. The project has an agreement with the Jaraka Irrigation Department, Department of Water Resources, Government of Odisha, to ensure compliant water supply. Water allocation has been granted by the Department of Water Resources, Government of Odisha, as per the Water Resource Department's Letter No. 5550 dated 26.02.2024.

	SPECIAL CONDITIONS	STATUS AS ON 31.03.2025
2.	Provision shall be made for the housing of construction labourers within site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilet, mobile STP safe drinking water, Medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of project.	Source of laborers is mainly from local area. No temporary housing is provided for construction laborers in the project site. First aid and medical facilities are available close to the site.
3.	A First Aid room will be provided in the project site both during construction and operation of the project.	First Aid room has been provided within the complex.
4.	All the topsoil excavated during construction activities should be stored separately for use in land filling, horticulture/landscape development within the project site.	The topsoil excavated during construction has been effectively utilized for landscape development and plantation.
5.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities will be disposed off taking the necessary precaution for general safety and health aspects of people only in approved site with the approval of competent authority.	Proper storage and disposal measures have been implemented to prevent any adverse effects on the neighborhood, with all necessary precautions taken to ensure general safety and health.
6.	Construction spoils, including bituminous material and other Hazardous Materials should not be allow to contaminate watercourses, ground water and dump sites by following safe dumping / disposal practice as per statutory rules and norms with necessary approval of Odisha state Pollution Control Board.	Construction spoils, including bituminous materials, are stacked to prevent contamination of watercourses, groundwater, and dump sites. Groundwater quality monitoring data for the period from Oct'24 to Mar'25 is enclosed, confirming that all monitored values are within acceptable norms.
7.	The fuel for diesel generator sets to be used during construction phase shall be use low sulfur diesel fuel and should conform to Environment (Protection) rules 1986 prescribed for air emission and noise standard.	During the construction phase, High-Speed Diesel (HSD) is utilized for the DG sets, which fully comply with the Environment (Protection) Rules of 1986, adhering to prescribed standards for air emissions and noise levels.
8.	The Diesel required for operating DG sets shall be stored in underground tanks and if, required, clearance from Chief Controller of Explosive shall be taken.	Diesel is sourced from nearby dispensing units, and we do not envisage a storage capacity that requires clearance from CCOE.
9.	Vehicles used for bringing construction materials to the sites should be in good conditions and should have a pollution check certificate, covered and conform to statutory air	We ensure compliance by allowing only vehicles with a valid "Pollution Under Control" certificate to enter the site, with

	SPECIAL CONDITIONS	STATUS AS ON 31.03.2025
	and noise standards and should be operated only during non-peak hours of days.	periodic checks conducted to maintain this standard.
10.	Ambient noise level should conform to residential standards both during day and night. Incremental pollution loads on ambient air and noise quality should be closed monitored during construction phase. Adequate Measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ OPCB.	To reduce noise level, movement of construction vehicles is carried out during non-peak hours and construction machinery with lesser noise and vibration parameters are used. Regular dust suppression, preventive vehicle maintenance, etc. are ensured to control of dust and noise. Noise level monitoring data has been furnished with the submitted six monthly compliance and the data is within the norms.
11.	Fly ash bricks should be used as building material in the construction as per the provisions to fly ash notification of September 1999 and as amended thereafter.	Fly ash bricks sourced from nearby areas, are being used as building material. Total 2902366 nos of fly ash bricks have been used for construction, till date.
12.	Ready mixed concrete should be used in building construction.	Ready mixed concrete is being used in building Construction. Till date 118661 cum of ready-mix concrete has been used for construction purpose.
13.	Storm water control and its reuse should be as per CGWB and BIS Standard for these applications.	Pond has been constructed for stormwater collection, with the collected water being effectively utilized for horticulture, gardening, and water sprinkling purposes
14.	Water demand during construction should be optimized by adopting best practices without compromising quality. It should be brought to the site by tanker.	During the construction phase, water conservation measures have been implemented to optimize water demand, including the use of ready-mix concrete
15.	Separation of grey and black water supplies and collection should be done by the dual plumbing line. Grey and Black water should be adequately treated separately so as to confirm to the prescribed standard before recycling / reuse.	Dual plumbing systems have been installed and are fully operational in units that are currently in use.
16.	Fixtures for showers, toilet flushing and drinking water should be low flow type and restricted to requirements by the use of aerators, avoiding wastage pressure reducing devices or sensor-based controls.	Low-flow fixtures have been implemented for showers, toilet flushing, and drinking water, utilizing aerators and incorporating pressure-reducing devices or sensor-based controls to minimize water wastage and meet efficiency requirements.

	SPECIAL CONDITIONS	STATUS AS ON 31.03.2025
17.	Use of glass may be, maximum up to 40% of the total outer wall area to reduce the energy consumption and load air conditioning. If necessary, high quality double glass with special reflective coating may be used in the windows.	The use of glass has been restricted to less than 40% of the total outer wall area, ensuring compliance with the specified environmental conditions.
18.	Roof should meet the prescribed requirement as per energy conservation building Code by using appropriate thermal insulation material.	The roof has been constructed in accordance with the Energy Conservation Building Code (ECBC) norms, ensuring compliance with the prescribed energy efficiency standards.
19.	Opaque wall should meet prescribed requirement as per the energy conservation Building Code.	Opaque walls are made as per Energy Conservation Building Code.
20.	The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of firefighting equipment etc. as per National Building Code of India, 2005 including protection measure from lightning etc.	Structural safety certificate has been obtained from M/s Ramboll India Pvt. Ltd. vide letter dated 4th December 2017.
21.	Regular Supervision of the above and the other measures for the monitoring should be in place all through the construction phase to avoid disturbances and pollution to the surrounding.	Regular monitoring and supervision are being conducted throughout the construction phase to minimize disturbances and prevent pollution to the surrounding environment.
22.	"Consent to Establish" shall be obtained from Odisha State Pollution Control Board before start of any construction work at the site.	We have obtained 'Consent to Establish' from Odisha State Pollution Control Board vide. Letter no. 17242, dtd. 31/10/2015.

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
1.	No ground water shall be used during the operation phase. If ground water will be used during operation phase, they shall obtain permission from the water resources department.	Water requirement for the residential complex is being met from our Tata Steel Plant for which we have agreement with Jaraka Irrigation Department, Dept. of water resource, Govt. of Odisha and water allocation letter granted by dept. of water resource, Govt. of Odisha vide water resource department's letter No 5550 dtd 26.02.2024.

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
2.	The proponent has to install STP of 730 KLD capacity. Treated effluent from STP shall be recycled / reused to the maximum extent possible after adequate treatment. Treatment of 100% grey water by decentralized treatment should be done. Discharged of unused treated effluent shall conform to the norms and standards of State Pollution Control Board. Necessary Measures should be taken to mitigate the odour problem of STP.	The condition has been fulfilled, as detailed below: A 1000 KLD STP has been installed and is fully operational within the project premises, surpassing the stipulated capacity of 730 KLD. Treated water from the STP is being efficiently reused for Plantation, Toilet flushing and Horticulture activities. Currently, approximately 10500 KL/Month of wastewater is being generated from the premises. This wastewater is effectively treated by the operational STP to ensure compliance with the norms and standards set by the State Pollution Control Board.
3.	The Proponent shall provide a polishing pond inside the residential complex to store and reuse the treated wastewater from STP. From the Polishing Pond, the treated wastewater shall be diverted for industrial use for their own steel plant. In no case there should be any discharge of treated effluent to outside of the project premises.	Treated wastewater from STP used in plantation, toilet flushing and horticulture activities.
4.	The proponent shall take steps for protection of Ganda Nallah. There shall not be any Discharge from the residential Complex to Ganda Nallah.	There is no discharge from the residential complex to Ganda Nallah. Treated wastewater from the STP is used for plantation, toilet flushing, and horticultural activities.
5.	The STP Sludge should not be dried nor incinerated within the Project site and should be dispose of as per the norms of SPCB, Odisha.	The sludge generated from the STP is utilized as manure in the green belt development area and gardens within the premises.
6.	The STP must treat all kind of pollutions present in it and its capacity should take into account the entire load of sewage generated by the inhabitants.	The STP is capable of treating all types of pollutants present in its inlet, and its capacity has been designed to handle

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
		the entire load of sewage generated from the residential complex.
7.	The project proponent will ensure that under no circumstances, the environment is polluted due to non-functioning / under performance of sewage disposal system of the project.	Regular maintenance is carried out by a dedicated team for the smooth operation of the sewage disposal system of the project.
8.	The solid waste generated should be properly collected and segregated. Wet garbage should be disposed off to be composted and dry / inert solid waste should be disposed through a certified agency for safe disposal. Necessary approval / permissions may be obtained from the concerned authorities. In no case it should be left in the premises untreated.	Solid waste generated within the premises is systematically collected and segregated into wet and dry waste categories. Wet garbage is converted into manure using Organic Waste Converters (OWCs). A total of three Organic Waste Converters are installed, each with an input capacity of 200 Kg/Day, ensuring efficient composting of wet waste.
9.	Diesel power generating sets proposed as source of back-up power for lifts elevators and common area illuminating during operation phase should be of enclose type and conform to Environment (Protection) rule 1986. The height of stack of DG sets should be equal to the height of needed for the combined capacity of all proposed DG sets put together and should be more than the highest building height. Low sulfur diesel should be used. The location of the DG set may be decided in consultation with Odisha State Pollution Control Board. Care may be taken to avoid disposal of smoke / pollutants from DG sets in the residential area. Low sulfur diesel oil (LDO OR HSD) is to be used in DG sets.	To meet the emergency power requirement, three (03) acoustically enclosed D.G sets of 125 KVA capacity each are installed on-site. Adequate stack height is provided as per norms, and low-sulfur diesel is being used.
10.	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time, the noise levels measured at the boundary of the sites shall be restricted to permissible levels to comply with the prevent regulations.	Provisions have been taken to attenuate noise like: • Movement of construction vehicles are restricted to peak hours only.

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
		• Use of construction machineries with lesser noise and vibrations. Regular monitoring of noise is being conducted at daytime and nighttime. Noise Monitoring report is attached as Annexure-2.
11.	Green belt & avenue plantation of tree over the site area (minimum 20%) shall be done using native tree species / shrubs improving greenery & keeping in view aesthetics considerations in the whole complex. Professional landscape architects should be engaged to design the green layout to provide for multi-tier plantation and green fencing all around, mitigation various environmental pollutants like dust, noise, emission etc. and pathway for joggers.	Green belt development has been initiated and being expedited to cover more than 20% of the total land area. To enhance the aesthetic beauty of township, development of landscapes inside township area is being implemented. Green belt details as on date is given in tabular form as ***Annexure-3***.
12.	Rainwater harvesting for roof runoff and surface runoff should be implemented as per submitted plan. Before recharging the runoff, pre-treatment must be done to remove suspended matter, oil, grease and other soluble components as per the norms. Rainwater recharge should be through specified recharge pits of required numbers. The surface runoff water should be stored suitably treated and reused for landscaping. The bore-well for rainwater recharging should be kept at least 5 meter above the highest ground water table. The technology may preferably be adopted from a registered commercial firm with performance guarantee.	Roof top run off recharge structure has been made. A rainwater harvesting pond has also been made for collection of surface runoff water.
13.	Weep holes in the compound walls shall be provided to ensure natural drainage of excessive rain water in the project area during the monsoon period after the harvesting operations. Care must be taken so that there is no water logging in the territory and drainage is 100%.	Weep holes are provided in compound walls for natural drainage of excessive rainwater during monsoon. Proper drainage has been provided to prevent water logging.

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
14.	Traffic congestion near the entry and exit points from the road adjoining the proposed project site must be avoided. Traffic congestion shall be avoided inside the project site. The area ear-marked for parking shall not be used for any other purpose. Alternative entry and exit must be provided to handle excess traffic and emergency situations.	Separate entry and exit points to the township have been provided with a 7-meter-wide bituminous road to avoid traffic congestion. Sufficient parking space has been provided within the premises in the area earmarked for parking.
15.	A report on the energy conservation measures to energy conservation norms finalized by the Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc. and submitted to the SEIAA, Odisha in three months' time before operation/habitation.	Report on the energy conservation measures has been submitted to the SEIAA, Odisha vide our Letter No. KPO/Env/C-08/ 67/ 2017 dtd. 15. 03. 2018. We have also obtained necessary permissions prior to operation/habitation as below: 1. CTO from Odisha State Pollution Control Board vide Consent No 4649 dtd 30/03/2024 valid till 31.03.2028. 2. Fire Safety Certificate from Directorate General Fire Services, Home guards and civil defence, Odisha on 31.01.19, 30.11.2019, 12.01.21, 18.08.2021, 22.04.2024 and 19.09.2024. 3. Occupancy certificate from Kalinganagar Development Authority on 14.03.2019, 29.02.2020, 26.04.2022, 11.07.2022 and 06.09.2024.
	The proponent shall be use at least 2-5% of non-conventional energy (solar energy) (i.e. % of total energy consumption).	Provisions for installation of Solar Panel on roof top has been made, especially for water heating and streetlights. Solar Panel having capacity 80 KWh has been installed at roof top UG tank for power supply.
	Provisions of solar hot water storage / supplies at the roof of top may be made as per statutory norms of CPCB/MoEF/SPCB, Odisha.	Provision has been made as per the statutory norms of CPCB, MoEF&CC, and OSPCB, Odisha. The installation and commissioning of solar water geysers (total capacity

	B. OPETATION PHASE	
	SPECIAL CONDITIONS	**STATUS AS ON 31.03.2025**
		29,500 L) in the buildings have been completed.
	Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TLFs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid toxic contamination, use of solar panels be adopted to the maximum extent possible, especially for street lights.	CFLs and TFLs are used for lighting the areas outside the building. The used CFLs and TFLs will be handed over to authorized vendors for proper disposal. Solar panels have been installed on the rooftop of the building for water heating.
	The building blocks should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	The building has been constructed according to the approved drawing from the KNDA to allow the movement of fresh air and the passage of natural light, air, and ventilation between them.
	The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this fund shall be diverted for other purposes like annual allocation and maintenance / monitoring etc. and expenditure for this fund should be reported to the SEIAA, Odisha on regular basis.	The funds earmarked for the environment protection measures has not been diverted for any other purposes and is judiciously utilized. Till Mar'25 Rs.375.00 lakhs have been utilized for the environment protection measures.

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Annexure-1

TATA

TATA STEEL

Tata Steel Limited

ENVIRONMENTAL CLEARANCE

The State Environment Impact Assessment Authority (SEIAA), Odisha has accorded Environmental Clearance to Residential Complex of Tata Steel Limited for Tata Steel Plant located at Kalinganagar Industrial Complex at Village Khurunti & Gadapur, in the district of Jajpur, Odisha.

The copies of Environmental Clearance, SEIAA/4669 dated 17.08.2015 are available for reference with SEIAA, Odisha and Odisha State Pollution Control Board (OSPCB) and may also be seen at website of the Board.

The State Environment Impact Assessment Authority (SEIAA) has accorded the environmental clearance for the said project under the provisions of EIA Notification, 2006.

Project Manager, Residential Complex, Tata Steel

TATA

TATA STEEL

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ପରିବେଶ ମଞ୍ଜୁରୀ

ରାଜ୍ୟ ପରିବେଶ ପ୍ରଭାବ ଆକଳନ ପ୍ରାଧିକରଣ (ଏସ୍ଇଆଇଏଏ) ଓଡ଼ିଶାର ଯାଜପୁର ଜିଲ୍ଲାର ଖୁରୁଣ୍ଟି ଓ ଗାଡ଼ପୁର ଗ୍ରାମରେ କଳିଙ୍ଗନଗର ଶିଳ୍ପାଞ୍ଚଳରେ ଅବସ୍ଥିତ ଟାଟା ଷ୍ଟିଲ ଲିମିଟେଡ୍‌ର ଷ୍ଟିଲ ପ୍ଲାଣ୍ଟ ପାଇଁ ଆବାସିକ ପରିସର ନିର୍ମାଣ କରିବା ନିମନ୍ତେ ପରିବେଶ ମଞ୍ଜୁରୀ ପ୍ରଦାନ କରିଛନ୍ତି।

ପରିବେଶ ମଞ୍ଜୁରୀର ନକଲ SEIAA/4669 ତା୧୭.୦୮.୨୦୧୫ରିଖ ଏସ୍ଇଆଇଏଏ, ଓଡ଼ିଶା ଏବଂ ଓଡ଼ିଶା ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼ ନିକଟରେ ଉପଲବ୍ଧ ଏବଂ ବୋର୍ଡ଼ର ଓ୍ୱେବ୍‌ସାଇଟ୍‌ରେ ମଧ୍ୟ ଦେଖାଯାଇପାରିବ।

ପରିବେଶ ପ୍ରଭାବ ଆକଳନ ବିଜ୍ଞପ୍ତି, ୨୦୦୬ ଆଧାରରେ ରାଜ୍ୟ ପରିବେଶ ପ୍ରଭାବ ଆକଳନ ପ୍ରାଧିକରଣ (ଏସ୍ଇଆଇଏଏ) ଏହି ପ୍ରକଳ୍ପ ନିମନ୍ତେ ପରିବେଶ ମଞ୍ଜୁରୀ ପ୍ରଦାନ କରିଛନ୍ତି।

ପ୍ରକଳ୍ପ ପ୍ରବନ୍ଧକ, ଆବାସିକ ପରିସର, ଟାଟା ଷ୍ଟିଲ

TATA

The Member Secretary,
State Environmental Impact Assessment Authority,
Qr. No.- 5RF-2/1, Unit-9
Bhubaneswar - 751012, Odisha.

KPO/Env/C08/ 61 /2015
18th Sept . 2015

Dear Sir,

Sub: Environmental Clearance for proposed construction of Residential Complex of Tata Steel Ltd located at KNIC at Khurunti & Gadapur, Dist - Jajpur with Total Built up Area of 147380 Sq. m

Kindly refer to the Environmental Clearance granted by SEIAA, vide letter no. SEIAA/4669 for the above referred project which was received by us on 10.09.2015.

We wish to submit that in compliance with the stipulated General Condition no. 9 of the above referred Environmental Clearance, information regarding grant of Environmental Clearance was given to public through newspaper advertisement as per the following details:

Language	News paper	Page No.	Date
Odia	The Samay	03	15/09/2015
English	New Indian Express	09	15/09/2015

Copies of above advertisements are enclosed for your kind information.

We trust the information furnished is in compliance with the condition.

Thanking You,

Yours faithfully
For **Tata Steel Limited**

Rajiv Kumar
Vice President, Operations, KPO
VP (Operations-KPO)
TATA STEEL LIMITED
Encl: As above

GOVT. OF INDIA
MoEF & CC, Eastern R.O.
Bhubaneswar-751023
RECEIVED

Copy: Addln. PCCF(C), MoEF Eastern Regional Office for kind information
Member Secretary, OSPCB for kind information

Annexure-2

AMBIENT AIR QUALITY (INSIDE PLANT) Period: Oct'24 to Mar'25														
Sl. No	**Sampling Stations**	**Month**	**PM10 µg/m3**	**PM 2.5 µg /m3**	**SO2 µg/ m3**	**NOX µg / m3**	**CO mg/m3**	**Ozone (O3) µg/m3**	**Lead (Pb) µg/m3**	**Ammonia (NH3) µg/m3**	**Benzene (C6H6)**	**Benzo (a) Pyrene ng /m3**	**Arsenic (As) ng /m3**	**Nickel (Ni) ng/m3**
1	Main Entrance	**Oct'24 to Mar'25**	77.6	31.5	7.1	31.7	0.53	24.8	0.02	21.1	< 4.2	<0.5	< 1.0	< 5.0
2	STP Area		82.0	42.7	7.9	32.6	0.66	<20.0	0.02	21.8	< 4.2	<0.5	<1.0	< 5.0
3	Near E Building		81.9	44.8	8.0	36.9	0.79	22.9	<0.01	20.9	< 4.2	<0.5	<1.0	< 5.0
4	South Boundary		84.9	38.8	9.3	33.2	0.78	23.1	0.02	18.9	<4.2	<0.5	<1.0	<5.0
5	Near D Building		78.3	48.9	7.5	36.9	0.80	20.8	<0.01	20.6	<4.2	<0.5	<1.0	<5.0
NAAQ Standard			**100** (24 Hrs.)	**60** (24 Hrs.)	**80** (24 Hrs.)	**80** (24 Hrs.)	**2** (8 Hrs.)	**100** (8 Hrs.)	**1** (24 Hrs.)	**400** (24 Hrs.)	**05** (Annual)	**01** (Annual)	**06** (Annual)	**20** (Annual)

Noise Monitoring Report Period: Oct'24 to Mar'25																
Noise Monitoring Location	**Oct'24**		**Nov'24**		**Dec'24**		**Jan'25**		**Feb'25**		**Mar'25**		**Average**		**NOISE STANDARDS**	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day time	Night time	Day time	Night time
	(in dBA)															
Residential Complex for Tata Steel at KNIC	49.3	39.1	54.4	40.3	54.2	40.2	49.8	37.9	47.6	38.1	53.3	40.1	51.4	39.3	**55**	**45**
Near DG set	53.9	41.2	52.9	41.9	53.8	42.0	53.6	41.8	52.3	40.8	51.9	41.9	53.1	41.7	**55**	**45**
South Boundary	54.3	41.0	52.8	40.3	48.3	37.8	52.6	40.8	51.1	39.7	54.1	40.6	52.2	40.0	**55**	**45**
Near D Building	52.5	38.8	51.0	39.3	52.3	37.5	52.6	40.1	49.8	37.7	51.9	39.2	51.7	38.8	**55**	**45**

Day Time: 06.00 AM to 10.00PM

Night Time: 10.00PM to 06.00AM

GROUND WATER QUALITY REPORT									
Period: Oct'24 to Mar'25									
Sl. No.	**Parameter**	**Standard as per BIS: 10500**	**Oct'24**	**Nov'24**	**Dec'24**	**Jan'25**	**Feb'25**	**Mar'25**	**Average**
1	pH Value	6.5-8.5	7.35	7.31	7.23	7.25	7.29	7.25	7.28
2	Colour	5	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	CL
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity (NTU), max	5	1.2	1.1	1.3	<1.0	<1.0	<1.0	1.2
6	Anionic Detergents, mg/l, max	0.2	ND	ND	ND	ND	ND	ND	ND
7	Aluminium as Al, mg/l, max	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8	Alkalinity, mg/l, max	200	120	124	118	124	118	116	120
9	Total Hardness (as $CaCO_3$), mg/l, max	300	142	152	142	148	144	132	143.3
10	Electrical Conductivity at 25^0C, µmho/cm	-	586.3	608.2	596.2	546.2	532.8	528	566.3
11	Calcium (as Ca), mg/l, max	75	33.6	34.0	32.3	30.8	32.9	33.1	32.8
12	Magnesium as Mg, mg/l, max	-	14.12	16.31	14.91	17.28	15.03	11.99	14.9
13	Sodium as Na, mg/l, max	-	8.9	8.5	8.1	7.3	7.1	7.5	7.9
14	Potassium as K, mg/l, max	-	5.4	5.3	5.0	5.2	5.1	5.4	5.2
15	Copper (as Cu), mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
16	Iron (as Fe), mg/l, max	0.3	0.2	0.21	0.22	0.21	0.23	0.21	0.2
17	Manganese (as Mn), mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
18	Chloride (as Cl), mg/l, max	250	28.1	30.2	29.6	29.6	28.6	26.9	28.8
19	Sulphate (as SO_4), mg/l, max	200	13.6	13.0	11.8	12.5	12.1	12.6	12.6
20	Nitrate (as NO_3), mg/l, max	45	5.8	5.6	5.2	4.6	4.5	4.6	5.0
21	Fluoride (as F), mg/l, max	1	0.26	0.28	0.24	0.25	0.24	0.22	0.2
22	Phenolic Compounds (as C_6H_5OH), mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

23	Mercury (as Hg), mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
24	Cadmium (as Cd), mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
25	Selenium (as Se), mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Arsenic (as As), mg/l, max	0.05	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
27	Cyanide (as CN), mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
28	Lead (as Pb), mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29	Zinc (as Zn), mg/l, max	5	0.42	0.33	0.31	0.33	0.31	0.33	0.3
30	Nickel as Ni, mg/l, max	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31	Total Chromium as Cr, mg/l, max	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
32	Chromium (as Cr+6), mg/l, max	0.05	<0.08	<0.05	<0.05	<0.08	<0.08	<0.08	<0.08
33	Mineral Oil, mg/l, max	0.01	ND	ND	ND	ND	ND	ND	ND
34	Total Coliform, MPN/ 100 ml	-	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
35	E-coli , MPN/ 100 ml	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Dissolved Solids, mg/l, max	500	192	185	176	174	172	166	177.5
37	Residual, free Chlorine, mg/l, min	0.2	ND	ND	ND	ND	ND	ND	ND
38	Boron mg/l, max	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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Annexure-3

Green Belt Development Report

Year of Plantation	No. of Tree Plantation	No. of Shrubs Plantation	Total area covered (Sq.mt)	Tree Survival (%)
Till 2018	5000	-	20000	85%
2018-19	400	12000	7055	96%
2019-20	150	4000	2645	94%
2020-21	40	2000	640	100%
2021-22	4030	1616	10484	100%
2022-23	168	2350	3861	100%
2023-24	1015	3121	4372	100%
2024-25	2392	2000	9586	100%
Total	**13195**	**27087**	**58643**	**97%**

Species planted:

Spathodea campanulata, Cordia sebestena, Anthocephalus cadamba (Kadamba), Ficus benjamina, Bauhina purpurea (Kanchana), Acacia aurifuliformis (Acacia), Dalbergia sissoo (Sisu), Azadirachta indica (neem), Cassia tora L (Chakunda), Peltophorum pterocarpum (Yellow Gulmohar), Lagerstriemia indica (Sabani), Nerium olender (Kaniar)

Maintenance:

- Maintenance is done on regular basis by dedicated horticulture team.
- For watering tankers fitted with flexible pipe are used.
- There are also fixed pipelines provided for watering of plantation.
- Pesticides and fertilizers are used as per requirement.

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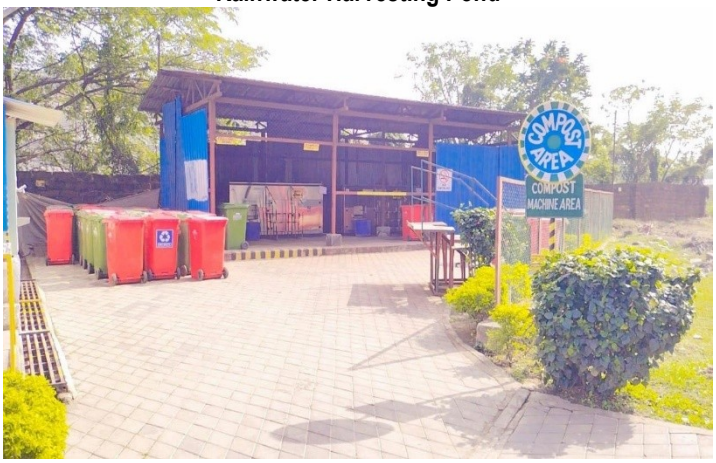
Some Photographs of Residential Complex

Aerial view of Residential Complex

Aesthetic view

Rainwater Harvesting Pond

CAAQMS is Operational at Residential Complex



Organic waste composting machines are in operation

1000 KLD Sewage Treatment Plant in operation

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