



**TSL/SEIAA/TS-30/2024-01/453**  
**May 31, 2024**

**The Member Secretary**

State Environment Impact Assessment Authority, Odisha,  
Qr No.5RF-2/1, Unit-IX  
**Bhubaneswar – 751022**

**Subject:** Submission of Half yearly EC compliance reports of Residential Township of Tata Steel Limited Meramandali for the period October' 23 to March' 2024

**Reference:** EC vide letter no. 2882/SEIAA, dated 28.09.2021

Dear Sir,

This has reference to the captioned subject and cited references. It is to inform you that we are herewith submitting six monthly Compliance reports for the conditions stipulated in the Environment Clearance of Residential Township of Tata Steel Limited, Meramandali for the period from October 2023 to March 2024 along with monitoring report for your kind consideration.

The copy of above compliance report is also being sent in soft format through email roez.bsr-mef@nic.in and seiaaodisha@gmail.com for your kind perusal. Also copy of EC compliance is being uploaded on MoEF&CC website on portal <http://environmentalclearance.nic.in>

Hope the above are in line with the statutory requirements.

Thanking you,

Yours faithfully,

**For Tata Steel Limited**

**Anoop Srivastava**  
**Chief Environment, TSM**

**Encl : As Above**

**Copy to :**

- I. Deputy Director General, Ministry of Environment, Forests and Climate Change, Integrated Regional Office (EZ), A/3, Chandrasekharapur, Bhubaneswar-751023
- II. The Zonal Officer, Central Pollution Control Board, Southern Conclave Block 502 5<sup>th</sup> & 6<sup>th</sup> Floors, 1582 Rajdanga Main Road, Kolkata - 700107.
- III. The Member Secretary, SPCB, Parivesh Bhawan, A/118, Nilakahanta Nagar, Unit-Odisha Bhubaneswar-751012.
- IV. The Regional Officer, State Pollution Control Board, Odisha. Angul.

**TATA STEEL LIMITED**

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Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 66654282 Fax 91 22 66657724  
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**Compliance Status of Environmental Clearance for construction of residential quarter (Township) Project, Meramandali, District Dhenkanal, Odisha vide Letter no.: 2882/SEIAA dated 28.09.2021**

S.N.	Description	Compliance Status
<b>Specific Condition</b>		
1	This Environmental Clearance shall not be operational till such time as the Project proponent complies with all the statutory requirements and Judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors as applicable to this project.	All statutory clearances have been obtained <ul style="list-style-type: none"> <li>• Consent to Operate vide letter no. 5425/IND-I-CON-6826 dated 31.03.2022 and valid till 31.03.2026.</li> <li>• Occupancy certificates vide registration no. 168/TAMDA dated 11.02.2021,</li> <li>• Fire safety certificate vide Certificate no. FIRCER1305150052023003398 dated 05.09.2023 and is valid upto 04.09.2028</li> <li>• Structural stability (safety) certificate dated 01.08.2023.</li> </ul>
2	As per MoEF&CC Notification dated 14.03.2017, followed by MoEF&CC letter F. No. 23-128/2018-IA.III dated 18.09.2020, the project proponent is required to submit a bank guarantee for the cost of implementing (a) the approved remediation plan and (b) natural and community resource augmentation plan with the SPCB. The cost of implementing these plans has been worked out by the PP Rs.2.60 Crores as per projection furnished by them. The bank guarantee of the above amount will be released after successful implementation of the respective plans and the EMP. The project proponent shall be required to fully implement the remediation plan and natural and community resource augmentation plan in a time bound manner within a period of three years	<p>The bank guarantee of Rs. 2,60,00,000/- (Rupees Two Crore Sixty Lakh) towards cost of implementing remediation plan, natural and community resource augmentation plan have been submitted to SPCB, Odisha vide letter no. TSL/OSPCB/BS-30/2021-10/134 dtd. 29.11.2021.</p> <p>The approved remediation plan and natural &amp; community resource augmentation plan along with the EMP have been implemented.</p> <p>We have requested to State Pollution Control Board, Odisha vide letter No. TSL/SPCB/BS-30/2023-08/391 dtd.17.11.2023 and to SEIAA, Odisha vide letter number TSM/Env/CRE/0517/2023 dated 22.12.2023 respectively along with compliance report of approved remediation plan and natural &amp; community resource augmentation plan to release the Bank Guarantee.</p>

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3	<p>The PP is liable to pay penalty at the rate prescribed vide clause 12(ii) of the MoEF&amp;CC, OM No. F.No.22-21/2020/IA.III dated 07.07.2021. The PP is required to furnish the relevant information for computation of the amount payable.</p>	<p>In compliance to the letter No. 2695/SEIAA Dt. 15/09/2021 and clause 12(ii) of the MoEF&amp;CC, OM No. F.No.2221/2020/1A.III dated 07.07.2021 Natural and Community Resource Augmentation Plan has been submitted at SEIAA on 22/09/2021. This plan has also implemented successfully.</p> <p>The project cost for the residential township as submitted to OSPCB is Rs.59747.00 lakh and the same was submitted to OSPCB during the grant of Consent to Establish vide letter No.TSBSL/SPCB/BS-30/2021-02/66 dated 23.06.2021</p> <p>In view of above, we have requested SEIAA, Odisha to waive-off penalty vide letter No. TSM/Env/0516/2023 dated 22.12.2023</p>
4	<p>After takeover of BSL by Tata Steel during year 2017 and re-naming of the company as Tata Steel BSL Ltd., revised building plan and area development plan was obtained from TAMDA during 2017 by revising the original approval of 2008. A comparative statement of building construction envisaged during 2008 and revised in 2017 with detailed remarks thereon has to be furnished by PP within 2 months of date of issue of Environmental Clearance.</p>	<p>No change in building construction plan was envisaged after taken over. Layout of building construction and area development plan was submitted vide letter no. TSL/SEIAA/BS-30/2021-12/142 dated 22.12.2021.</p>
5	<p>Since this township project over approx.50-acres land has been delinked from the Steel Plant &amp; CPP, the township shall be developed as a gated colony with proper boundary wall having linkage to road, water supply and power supply, meant for the industrial plant.</p>	<p>Township has been developed as a gated colony with a proper boundary wall having linkage to the NH, water and power supply are being sourced from Steel Plant.</p>
6	<p>The proponent shall obtain Fire Safety Certificate under Odisha Fire Prevention and Fire Safety Rules,2017 (with amendments) and the Structural Stability (safety) certificate from competent authority for the buildings constructed in the township</p>	<p>Fire Safety certificate was obtained under Odisha Fire Prevention and Fire Safety Rules, 2017 (with amendments) attached as <b>Annexure – I A.</b></p>

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		The Structural Stability (safety) Certificate has been obtained from competent authority and as attached as <b>Annexure – I B.</b>
7	Notwithstanding the cost projected by PP for CSR activities of entire Steel Plant Complex, the CER and CSR schemes for the Standalone Township project shall be furnished to SEIAA within one month of the issue of the Environmental Clearance.	CER and CSR schemes for standalone township project have been submitted to SEIAA vide letter no. TSL/SEIAA/BS-30/2021-12/142, dated 22/12/2021.
8	Preparation of a disaster management plan (DMP) under the provision of Disaster Management Act. 2005 through an expert Organization like OSDMA including Onsite emergency plan for the township with linkage to similar plan of Dhenkanal district has to be kept ready within six months.	Disaster Management Plan (DMP) has been incorporated in the EIA/EMP report as chapter 7. The same has been submitted along with last half yearly EC compliance vide letter no. TSM/MoEF&CC/BS-30/2022-01/211 dated 31.05.2022.
<b>Natural Drainage</b>		
9	No construction shall be allowed to obstruct the natural drainage pattern at the site. Check dams are allowed for harvesting rainwater. Cutting and filling of the land should be kept to the minimum, and artificial land shaping has to be avoided.	Every care has been taken not to disturb any natural land by constructional activities. Natural nalla has been kept as it is.  Cutting and filling of the land has been kept minimum, no artificial land shaping has been done.
<b>Water Conservation and RainWater Harvesting</b>		
10	No ground water shall be extracted for the project work at any stage during the construction phase or operation phase without obtaining permission from the Water Resources Department, Govt. of Odisha/CGWB.	The water requirement for the residential complex (township) is being met from Steel Plant. Groundwater was not extracted for construction and operation.
11	The Project's total fresh water requirement is reportedly met from TSBSL's water reservoir, which is replenished by drawal from Brahmani River. Regular permission from competent authority (WR Dept.) for such drawal of river water has to be obtained immediately. Water meter be installed forthwith to measure the quantum of drawl of water from the river.	Permission for drawal of water was obtained on 19.04.2007 from Department of Water resources Govt. of Odisha. Agreement has been made with Irrigation department, Odisha vide letter no. 2251/WE dated 29.08.2023  Water meter has been installed to measure the quantity of drawal of water from the river.

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12	The Project Proponent shall strive to achieve zero discharge of used water from the township project area, and no treated water from STP shall be discharged to any natural stream/river nearby. STP of 1000KLD capacity has to be set up and all waste water has to be treated, and recycling of treated waste for all usages other than for domestic cooking, bathing and cleaning shall be maximized. In fact, all water used for gardens, lawns plantation, air conditioning, flushing of exterior areas, washing of vehicles, etc. shall be recycled water.	Zero effluent discharge is being maintained at Township. Treated water from STP is being reused for landscaping and in steel plant (low-end application).
13	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance of the project. The record shall be submitted along with the six-monthly Monitoring reports.	The quantity of freshwater usage for the period Oct'23 to Mar'24 is 61 m3/hr. 100% of STP water is reused in horticulture, land scaping and low-end application of Plant.
14	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing and internal cleaning and mopping, and separately for supply of recycled water for flushing, landscape irrigation, car washing, air conditioning, etc. shall be done.	Separate freshwater line has been laid for drinking, cooking, and bathing etc. Treated water is being used in landscaping, horticulture, and low-end application in steel plant.
15	Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	Consumption of fresh water has been minimized by combination of water saving devices and other domestic water conservation measures. Further, to ensure ongoing water conservation, awareness session is being organized periodically. Water saving devices like fixtures for showers, aerators, low flow toilet flushing have been installed for water conservation purpose.
16	Any ground water drawl should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of river water.	Not Applicable as no ground water is being withdrawal for any purpose.

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17	The proponent shall provide for adequate rain water harvesting with necessary structures based on the norm of CGWA on the use of fresh water from underground sources. A complete plan for rainwater harvesting at the project site shall be drawn up and implemented forthwith. The complete rainwater harvesting plan shall be submitted to SEIAA within one month from this day. Rain water harvesting pits for ground water recharge shall be installed as per CGWB guidelines.	Rainwater harvesting pond of capacity 2500 m <sup>3</sup> has been constructed to collect rainwater from A1 and A2 High Rise Building.											
18	STP of 1000 KLD capacity shall be installed before start of the operation phase of the building. The treated waste water from STP shall be recycled/reused to the maximum extent possible as recycling is a means of reducing depletion of water resources. Flushing, Washing, watering of the lawns and gardening, low end applications in steel plant facilities are to be met by recycled water. Discharge of unused treated wastewater shall conform to the norms and standards of the Odisha State Pollution Control Board. Necessary measures should be taken to mitigate the odor problem from STP. The sewage treatment plant shall be made functional before the operation of the housing complex.	Adequate Capacity of Sewage Treatment Plant (1000 KLD) has been provided for treatment of domestic wastewater. The treated water meets the prescribed standards of OSPCB. Zero effluent discharge is being achieved and sustained and treated water is being used for watering of the lawns and gardening, low end applications in steel plant.											
19	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted.	<p>The sewage Treatment Plant (STP) has been retrofitted and certified by an independent expert M/s Voltas Limited. The certificate and test report were submitted to SPCB and SEIAA vide letter no. TSM/SPCB/BS-30/2022-02/195 dated 29.04.2022.</p> <p>STP outlet water quality monitoring report for the period Oct'23 to Mar'24 is given in the following table.</p> <table border="1" data-bbox="943 1577 1484 1782"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="3">Parameters in Range</th> </tr> <tr> <th>pH</th> <th>Suspended Solid in mg/l</th> <th>BOD (3days at 27°C) in mg/l</th> </tr> </thead> <tbody> <tr> <td>Colony STP O/L</td> <td>7.0-7.56</td> <td>12-56</td> <td>3.1-28</td> </tr> </tbody> </table>	Location	Parameters in Range			pH	Suspended Solid in mg/l	BOD (3days at 27°C) in mg/l	Colony STP O/L	7.0-7.56	12-56	3.1-28
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20	The treated water is understood to be discharged to "Kisinda Nala" which is a natural stream. Necessary permission and "NOC" shall be obtained from the concerned authority for the 'Nala' to take additional load of the above wastewater.	Adequate Capacity of Sewage Treatment Plant (1000 KLD) has been provided for treatment of domestic wastewater. The treated water meets the prescribed standards of OSPCB.
21	Excess treated water shall be discharged to any outside drain only after getting permission from the competent authority. The proponent shall renovate the existing drain to accommodate the discharge and maintain it properly. To this effect the proponent has to give a legal affidavit before going for construction activity.	Zero effluent discharge is being achieved and sustained and treated water is being used for watering of the lawns and gardening, low end applications in steel plant.
22	The proponent shall provide open drain network of RCC with cover slab and camouflaged with potted plants to take care of wastewater and storm water drainage in the township.	RCC drain network has been constructed with cover slabs to take care of storm water drainage in the township.
23	Comprehensive individual and integrated water management/ water balance, both for township and plant be submitted, taking into consideration fresh water/ surface runoff/ storm water/ wastewater/ treated wastewater, etc. within 2 months of date of issue of Environmental Clearance.	Comprehensive individual and integrated water management/ water balance, both for township and plant have been submitted vide letter no. TSL/SEIAA/BS-30/2021-12/142 dated 22.12.2021.
24	A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the public sewer/ disposal/ drainage systems along with the final disposal point.	Not applicable as Zero effluent discharge is being achieved and sustained and treated water is being used for watering of the lawns and gardening, low end applications in steel plant.
25	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Sludge generated from STP is being reused in horticulture.
<b>Solid Waste</b>		
26	The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed. Management and handling of various wastes like solid waste, hazardous waste, bio-medical waste, battery waste, e-waste and	Solid wastes, E-wastes and plastic wastes generated are being properly collected, segregated, and disposed of as per the provision in Solid Waste (Management) Rules, 2016, E-Waste

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	construction & demolition wastes including linkage with authorized agencies for disposal and reuse shall conform to the prescriptions of the above Rules and related guidelines.	(Management) Rules, 2016, and Plastics Waste (Management) Rules, 2016. Management and handling of various wastes like solid waste, hazardous waste, bio-medical waste, battery waste, e-waste and construction & demolition wastes are ensured to conform to the rules.
27	Separate wet and dry bins must be provided in each housing unit at the ground level for facilitating segregation of waste into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste will be stored at a dumping site, and disposed of to authorised vendors of the NAC.	The solid wastes generated are being properly collected and segregated as per the requirement of the Solid Waste (Management) Rules, 2016. Separate bins have been provided in each housing unit for facilitating the segregation of waste into wet garbage and inert materials. A long-term contract has been made with Tata Steel Utilities & Infrastructure Services Limited (TSUISL) to operate 6 ton per day organic waste composter (OWC). The organic composter was commissioned and in operation.
28	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities and their adequacy to cater to the Solid Waste generated from project shall be obtained.	Not Applicable.
29	The project proponent shall provide compost pits so that leaf litter from green belt is converted into compost. Under no circumstances, leaf litter shall be burnt.	Compost pits have been provided for leaf litter. Under no circumstances, leaf litter is being burnt.
30	Any wastewater generated from the premises shall not be allowed to mix with rainfall/storm water. The Project Proponent shall ensure separate approved drainage lines for discharge of wastewater and that of storm water. Storm water drain shall be passed through guard pond.	Storm water drains and wastewater drains have been constructed separately to avoid intermix. Proper outlet for storm water has been provided. All the wastewater of the township is being treated in STP and reused. No wastewater is being discharged to drain.

Energy Conservation		
31	The proponent shall provide provision of LED based lighting; energy saving devices, like fans, refrigeration, air conditioning, pumps, and lifts shall be adopted. All street lights and all other exterior lighting shall be solar power based.	Energy-saving devices have been installed in the township. LEDs have been installed for lighting the indoor, outdoor, and common areas. Solar power-based streetlight is being installed in phase wise manner. 15 nos. of 30W LED solar streetlights have been installed at parking areas. 5 Nos. of Solar base LED light has been at common areas at high rise building of capacity 3KW each. 30 Nos. of solar streetlights, solar based light in common area of high rise building. 36 Nos. of solar base streetlights have been installed in service road of NH55.
32	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency is being ensured. LEDs have been installed for lighting the outdoor and common areas.
33	Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	LEDs have been installed for lighting inside and outside of the building as a part of energy conservation measures. Used CFLs, TFL, LED and other e-waste are being properly collected, segregated, and disposed of to authorized recycler/disposer as per the provision in E-Waste (Management) Rules, 2016.
34	The proponent shall use renewable energy/ solar power of at least 5% of projected power requirement for the township.	Necessary steps had already taken to harvest solar power in a phase wise manner. Following Renewable Energy/Solar power system Installed : 1) Highrise building Common area – 3 KVA Off-grid system – 5 no. 2) Colony Street Light system – 5 KVA Off-grid system – 1 no.

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		3) NH road Service area streetlight – 7.5 KVA Off-grid system – 1 no. capacity – Guest house & Canteen – 1 no.
35	The proponent shall provide provision of lighting arrester, earthing for all buildings, under-ground cable network instead of overhead pool cabling for safety of dwellers.	Provision of lighting arresters, earthing for all buildings, and underground cable networks have been provided.
36	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	<ul style="list-style-type: none"> <li>• Solar power-based lighting installation in the apartment is in progress to reduce the power load.</li> <li>• Installed 12 no. of solar electric meter which help us monitor our energy consumption and efficiency.</li> <li>• 5 KLD solar based water heater installed.</li> </ul> <p>Average Solar Energy generated on monthly basis 13500 units.</p>
37	Use of environment friendly construction materials like bricks, blocks, etc. shall be required to make up at least 20% of the total construction material. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, etc. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete shall be preferred in building construction.	In compliance with the provision of fly Ash Notification of September 1999 and its amendments, environmentally friendly construction materials like fly ash bricks and paver blocks are used for the construction of buildings and roads.
38	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.	Not applicable as the captive power plant of Tata Steel Limited Meramandali is supplying power to the township.
<b>Air Quality Management and Noise Management</b>		
39	Regular water sprinkling shall be done at construction area, material transport road through mobile water tanker to reduce fugitive dust. Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, morrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Unpaved surfaces and loose soil shall be	Regular water sprinkling is being done at construction area, material transport road through mobile water tanker to reduce fugitive dust. All vehicles carrying construction materials are having a top cover to avoid the spreading of dust and a valid PUC certificate. All internal roads have been concreted or blacktopped and

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	adequately sprinkled with water to suppress dust. The premises of the township should be paved pucca road and vacant areas shall be covered with grasses, herbs and shrubs.	vacant areas are covered with grasses, herbs, and shrubs.
40	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	Not Applicable As per C&D rule 2016 Waste generation is less than 20 tons per day and less than 300 tons per project in a month.
41	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Dust Mitigation measures have been followed as per submitted EMP (Environment Management Plan) by Water sprinklers for dust suppression wherever required, however, the construction work has now been over. Only interior finishing work is going on.
42	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the Central Pollution Control Board (CPCB) norms. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.	Construction of stack of adequate height attached to 250KVA DG set has been completed.  Low Sulphur diesel for running the DG sets and all diesel power generating sets are being used and have acoustic enclosure to prevent noise. Ventilation provision to control indoor air quality in the building.
43	Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be taken to reduce noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	The ambient noise levels recorded in the township are well within the prescribed standard as per Noise Pollution (Control and Regulation) Rules, 2000.  A CAAQMS station has been established in consultation with SPCB in the township to monitor ambient air quality.

		<p>Every care has been taken to reduce the noise level during the construction phase.</p> <p>Noise monitoring report for the period Oct'23- Mar'24 is given in below table:</p> <table border="1" data-bbox="945 464 1523 764"> <thead> <tr> <th>Location</th> <th>Colony</th> </tr> </thead> <tbody> <tr> <td>Noise level in dB(A) Leq (Day Time Range)</td> <td>50.5-53.3</td> </tr> <tr> <td>Standard dB(A) Leq (Day Time)</td> <td>55</td> </tr> <tr> <td>Noise level in dB(A) Leq (Night Time Range)</td> <td>42.3-48.8</td> </tr> <tr> <td>Standard dB(A) Leq (Night Time)</td> <td>45</td> </tr> </tbody> </table>	Location	Colony	Noise level in dB(A) Leq (Day Time Range)	50.5-53.3	Standard dB(A) Leq (Day Time)	55	Noise level in dB(A) Leq (Night Time Range)	42.3-48.8	Standard dB(A) Leq (Night Time)	45
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<b>Green Cover</b>												
44	<p>Green-belt &amp; avenue plantation of trees over the area of 60,589.2 m<sup>2</sup> (30 % of plot area) shall be done using native tree species/shrubs improving greenery &amp; keeping in view considerations of aesthetics of the whole complex. The species with evergreen foliage, broad leaves and wide canopy cover are desirable. Professional landscape architects should be engaged to design the green layout to provide for multi-tier plantation and green fencing all around, mitigating various environmental pollutants like dust, noise, emissions etc. The proponent shall provide multi-layer green belt coverage as per the norm excluding landscape around the periphery of the premises. The PP shall get at least 10trees/ha fully established and uniformly spread out (trees=30cm dbh or more) to cover the entire township area.</p>	<p>Total 22000 Nos. of evergreen species like Jamun, Bela, Ashoka, Baula, Champa, mahogany and amla etc have been planted in the entire township, which is more than 1000 Nos. of trees /ha. Annual maintenance of landscape and green belt in and around township is being carried out.</p>										
45	<p>The proponent shall encourage composting of organic waste, vermiculture, bee-culture, floriculture and ornamental horticulture for beautification of the township.</p>	<p>Leaf litter and other horticulture wastes are converted into compost.</p>										
46	<p>Roof top rain water harvesting shall be adopted for each proposed Building as part of the rainwater harvesting at the whole site.</p>	<p>Rooftop rainwater has been adopted for Type-A high rise buildings.</p>										

Parking		
47	Parking shall be prohibited on the access road to the project site.	Designated, parking has been allocated at the project site for four-wheelers, two-wheelers, and cycles in the township for the inhabitants.  Signage has been provided along all internal roads like road markings for pedestrian pathways, speed limits, etc. for smooth movement of traffic.
48	The proponent shall provide signage road markings for pedestrian pathway and cycle track, speed limits marking and corner mirrors in all internal roads for smooth movement of traffic within township.	
49	The proponent shall provide adequate parking area for four wheelers, two wheelers and cycles in the township for the inhabitants and visitors.	Adequate parking for area for four wheelers, two wheelers and cycles have been provided.
Top Soil Preservation and Reuse		
50	Topsoil may be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and re-laid at plantation and such other sites.	Topsoil was used for gardening and plantation purpose.
Traffic & Transportation		
51	Traffic management/Traffic density and Traffic decongestion study at entry and exit to township and at NH shall be undertaken and study report shall be submitted within 06 months of date of issue of Environmental Clearance.	Traffic management/ traffic density and traffic congestion study at entry and exit to the township and NH have been carried out by Centre for Envotech and Management Consultancy Pvt. Ltd.
52	A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. <ul style="list-style-type: none"> <li>• Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>• Traffic calming measures</li> <li>• Proper design of entry and exit points.</li> <li>• Parking norms as per local regulation</li> </ul>	
53	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 01 km radius of the project is maintained and improved upon after the implementation of the project. This	

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	plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 01 km radius of the site and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	
54	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.	Only vehicles having valid PUC are being engaged in transportation activity.
55	A dedicated entry/exit and parking shall be provided for commercial activities.	Entry/ exit and parking has been provided.
56	Barricades shall be provided around project boundary.	Barricades has been provided around project boundary.
57	Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.	Speed bumps have been provided along with signage.
58	Footpath shall be seamless with sufficient width.	Footpaths with sufficient width have been provided.
59	No vehicles shall be allowed to stop and stand in front of the gate on main access.	No vehicles are allowed to stop and stand in front of the gate on main access.
60	A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.	A buffer of minimum 10 m has been maintained between the entry/exit gate and the road to avoid traffic congestion.
61	The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the Competent Authority of the State and shall have also their consent before implementation.	Traffic Management Plan have been certified by IIT Bhubaneswar.

<b>Environment Management Plan</b>		
62	An Environmental Management Plan (EMP) shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, tree planting, Rain Water Harvesting. Energy efficiency measures water use efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.	<p>Compliance with all environmental protection measures as recommended in the EMP report is being ensured.</p> <p>A dedicated Environment Monitoring Cell with defined functions and responsibilities have been put in place to implement the EMP.</p>
63	It shall be mandatory for the project management to submit six (06) monthly compliance reports on environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environment & Forest, Odisha in hard and soft copies on 1st June and 1st December of each calendar year.	<p>Half-yearly compliance reports on environmental monitoring in respect of the stipulated conditions in the Environmental Clearance is being submitted regularly.</p> <p>Latest compliance for the period April 2023 to September 2023 has been submitted to SEIAA Odisha, SPCB &amp; Regional Office of the MoEF&amp;CC, Odisha vide letter no. TSM/SEIAA/BS-30/2023-09/396 dated 01.12.2023. Half yearly compliance for the period October 2023 to March 2024 being submitted.</p>
<b>General Condition</b>		
1	The project proponent shall ensure that the guidelines for building and construction projects issued vide MoEF&CC's OM No.19-2/2013-IA.III dated 9th June 2015, are followed to ensure sustainable environmental management.	Noted and the same is being complied.
2	The approval of the Competent Authority shall be obtained in regard to structural safety of buildings against earthquake, adequacy of firefighting equipment as per National Building Code including protection measures from lightning.	The approval for the structural safety of the building as per the National Building Code of India, 2005 has been obtained.

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3	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	Complied and noted.
4	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board.	Consent to Establish and Consent to Operate from Odisha State Pollution Control Board has been obtained vide letter no. 19511/IND-II-CTE-5518 (pt.) dated 06/12/2021 and no. 5425/IND-I-CON-6826 dated 31.03.2022 respectively
5	Provisions 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.	All necessary infrastructure and housing facilities were provided for workers during construction phase of the township.  Safe drinking water, toilets etc. facilities are being provided.  First aid and medical facilities are available in the township health center and steel plant OHC.
6	A First Aid Room shall be provided in the project both during construction and operations of the project.	A full-fledged health center is operational in the township.
7	The company shall draw up and implement corporate social Responsibility plan as per the Companies Act of 2013.	Noted and complied.
8	As per the MoEF&CC. Govt. of India Office Memorandum dated 30.09.2020, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. Appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, skill development. cross drains, solid waste management facilities, rain water harvesting, soil moisture conservation works, avenue plantation. etc. The activities proposed under CER shall be focussed on the project impacted area around the project. The activities proposed for CER shall be implemented and completed within three years and annual report	CER is under implementation and shall be completed within 3 years.

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	of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement and to the District Collector. It should be posted on the website of the project proponent.	
9	A copy of this Environmental Clearance letter shall be displayed on the website of the Odisha State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.	The EC letter was displayed at the Regional Office, District Industries center and Collector's Office/ Tehsildar's office for 30 days.
10	Officials from the Regional Office of MoEF&CC, Bhubaneswar/SPCB, Odisha who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Noted.
11	In the case of any change(s) in the scope of the project, the project would require a fresh clearance by the SEIAA, Odisha.	Noted.
12	The SEIAA, Odisha reserves the right to add additional conditions and safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the conditions, and safeguard measures in a time bound and satisfactory manner.	Agreed, the SEIAA, Odisha reserves the right to add additional conditions and safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the conditions, and safeguard measures in a time-bound and satisfactory manner.
13	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department. Civil Aviation Department, the Forest Conservation Act. 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	All applicable clearance has been obtained.

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14	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.	The advertisement was published in both Odia & English newspapers named "Pragatibadi" and "The New Indian Express" respectively on the date 02.10.2021.
15	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	The clearance letter was sent to all concerned and also uploaded to our company website, which can be viewed at <a href="http://www.tatasteel.com">http://www.tatasteel.com</a> .
16	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India. the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Compliance status has been uploaded on the Company's website at <a href="http://www.tatasteel.com">http://www.tatasteel.com</a> . The compliance report including results of monitored data is being submitted to the Regional Office of MoEF&CC, CPCB and SPCB, Odisha.  Last compliance report has been submitted vide letter no. TSM/SEIAA/BS-30/2023-09/396 dated 01.12.2023
17	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. This shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent	Environmental Statement for the financial year 2022-23 in Form-V has been submitted vide letter no. TSL/SPCB/BS-30/2023-07/376 dated 27.09.2023 to all concerned authorities as prescribed under the Environment (Protection) Rules 1986, and its amendments.

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	to the respective Regional Offices of MoEF & CC, Govt. of India by E-mail.	And same has been uploaded to the company website along with Half-Yearly EC compliance.
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## ODISHA FIRE &amp; EMERGENCY SERVICE

## FIRE SAFETY CERTIFICATE

## FORM-V

[Under rule-13(3) of the Odisha Fire Prevention and Fire Safety Rules, 2017]



<b>Certificate No:</b>	FIRCER1305150052023003398	<b>Application No:</b>	FSC1305150052023000007
<b>Date of Issue:</b>	05-09-2023	<b>Date of Receipt of Application:</b>	08-08-2023
<b>Valid Up to:</b>	04-09-2028 (midnight)		
<b>(Apply for Renewal of Fire Safety Certificate at least three months before its expiry)</b>			

Certified that the

Block - C1, Tata Steel Meramandali township

Situating at

Plot No-683(P), 753(P), 754(P), 755(P), 712(P), Khata No.-14, 29, 29, 59, 131, Street-Kusupanga, Meramandali, Mouza-Narendrapur, Tahasil- Odapada, Police Station-Kantabania Police Station, District-Dhenkanal, Fire Station-Hindol Road,

Consisting of total

1 Number of Towers/Blocks, was inspected by officers of the Fire Service on

29-08-2023

In presence of

Authorized person of the premises



and it has been found to comply with the fire prevention and safety requirements in accordance with the Odisha Fire Prevention and Fire Safety Rules, 2017 read with Odisha Fire Prevention and Fire Safety(Amendment) Rules,2019 and that its various floors are fit for occupancy or usage as noted hereunder against each subject to compliance to the conditions as prescribed herein below:

1. \* Name of the Building(s)/Tower(s)/Block(s):- B+G+12 floors (Block-C1)

**\* Floor wise occupancy:-**

Sl.No.	Floors in Tower/Block	Usage
1	Basement	Parking & Services
2	Ground floor to 12th floor	Residential

**CONDITIONS:-**

1. Fire prevention and safety measures and appliances, availability of water supplies and means of access thereto etc provided in the building or premises, should be maintained by the occupier(s) in best repairs and efficient working condition at all times for use by the occupants or the members of the Fire Service or both in the event of outbreak of fire.
2. The set-backs, driveways, entrance gates, exits, staircases, corridors and escape way should not be changed, obstructed or modified in any way.
3. The occupiers(s) shall train all staff and occupants periodically to make them well conversant in use and operation of the fire prevention and safety measures.
4. Fire drills/rehearsals should be organised at least once in six months by involving Local Fire Station.
5. The occupier(s) shall appoint Fire Safety Supervisor exclusively for this building or premises.
6. Photocopies of this Certificate should be framed and displayed at all conspicuous places in all lobbies/corridors in all floors of all Towers/Blocks of building/premises.
7. The maintenance of fire safety installation in the building / premise shall be owner's / occupier's liability as per Rule-16 of OFP & FS Rules, 2017. He shall maintain the same in good repairs and working condition at all times. Any lapses in fire safety installation during fire incident if any shall end with owner's / occupier's responsibility.

**By order of the Director of Fire Service**

Shri Debendra Kumar Swain

Chief Fire Officer (SAG) FPW,Odisha

**NOTE**

- (i) It is a digitally signed electronically generated certificate and therefore needs no ink-signed signature.
- (ii) This Certificate is issued as per section 4, 5,& 6 of Information Technology Act 2000 and its subsequent amendments in 2008.
- (iii)For any Query or Verification , Agency /Department / Office may visit <https://agnishamaseva.odisha.gov.in>
- (iv)Tampering of this Certificate will attract penal action.





FORM-VII  
[(See Regulation 52(1) (v)]

STRUCTURAL STABILITY CERTIFICATE

(To be furnished by the registered Structural Engineer/Architect)

This is to certify that I/We/Ms. PANKAJ KUMAR  
has/have prepared the structural design of the building over Plot No. 683(P), 753(P),  
754(P), 755(P), 712(P) Khata No. 14, 29, 59, 131 Mouza. Narendraapur

For construction of ..... storey building as per the provisions of National Building Code. I undertake the responsibility with regard to supervision of the work at each stage of construction, (after lying of foundation & after casting of each floor) and submit the report to TAMDA to the effect that the building is being constructed confirming to the approved plan and as per the structural design prepared by me/firm as per the provisions of NBC taking into account the safety factors like cyclone & earth quake etc. I/We will be responsible and liable for action by TAMDA / Govt. if the plan / design submitted contain misrepresentation or fraud and construction is made in deviation of approved plan or if there is structural failure & fire endangering the inmates & the public.

*Pankaj Kumar*  
(i) Signature and Seal  
Registered Structural Engineer  
**ER. PANKAJ KUMAR**  
INDIAN INSTITUTE OF ENGINEERS  
CHARTERED ENGINEER (INDIA)  
REGN No. AA1872578

(i) Present and Permanent Address -  
D1/25 Kharkai Snelave,  
West Layout Sonari, Jamshedpur,  
Dist: East Singhbhum, Jharkhand:  
PIN: 831011

(ii) Present and Permanent Address

- do -

For Tata Steel Ltd.

*Mohit Das*  
(iii) Signature of the Plot Owner/  
Chief Corporate Services, TSM  
Owner & Developer/Builder.



FORM-VI

CERTIFICATE OF COMPLETION

[(See Regulation 18(1) & 67)]

(To be given by the Owner and Countersigned by the Registered Architect / Registered Structural Engineer. To be submitted in triplicate.)

(Office Use)

Date of Receipt.....

Amount of fee deposited.....

Receipt No. & Date.....

From :

.....  
.....  
.....

(Name & address block letters)

To

THE VICE-CHAIRMAN,  
TALCHER ANGUL MERAMANDALI DEVELOPMENT AUTHORITY,  
ANGUL.

Sir,

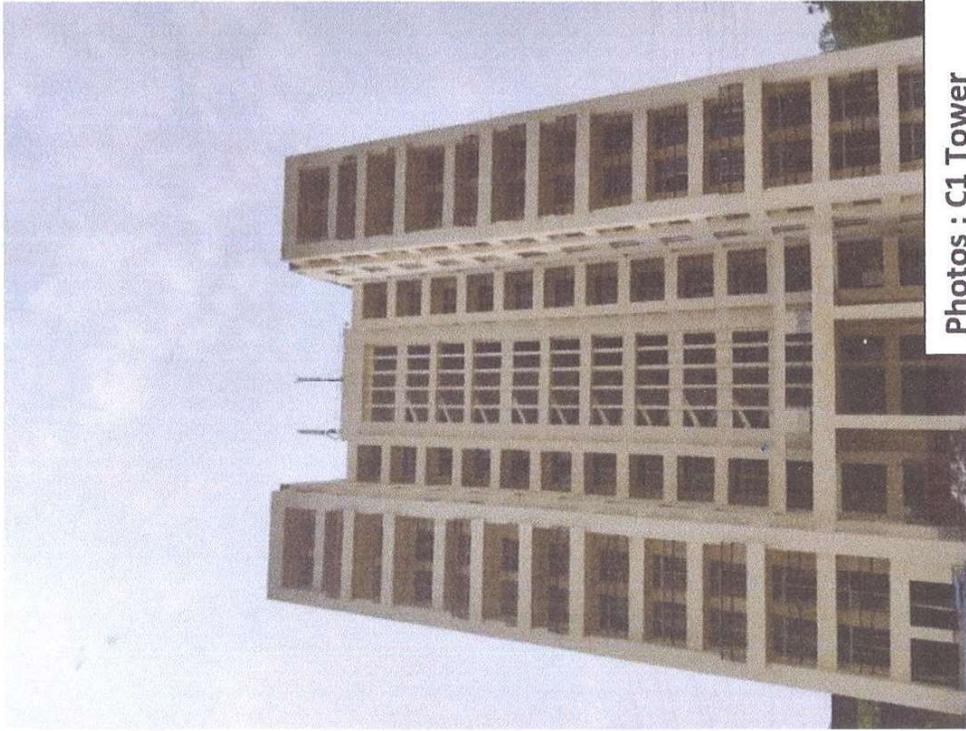
I/We hereby certify that the erection of building as per the schedule below  
Plot No. 683(P), 753(P), 754(P), 755(P), 712(P)  
Khata No. 14, 29, 59, 131 Mouza Narendrapur Ward No Tahsil: Odapada  
has been supervised by me/us and has been completed on 01/08/2023.  
Date..... Strictly according to the plan sanctioned vide letter  
No..... dated ..... The work has been completed to my/our best  
satisfaction. All the material (type of grade) have been used strictly in accordance with the  
general and detail specification. The structural safety with respect to cyclone & earthquake  
has been taken care as per the provisions of the NBC. The fire safety measures have also  
been adopted as per the clearance of the fire officer.

No provision of the Orissa Development Authority Act, 1982 & Orissa Development  
Authority Rule 1983 and the Relevant Building Regulation has been violated. No requisition  
made, conditions imposed or orders issued with respect to the above quoted sanctioned  
plan have been transgressed in the course of the work. The building is fit for use for which  
it has been erected.

*[Signature]*  
For Tata Steel Ltd.  
Signature of the  
Owner(s) & Developer  
**Monit Das**  
Chief, Corporate Services, TSM

Yours faithfully  
*[Signature]*  
**MRS. SUMANA BASACK**  
COUNCIL OF ARCHITECTURE  
REGN. NO. - CA/2006/38842  
Signature of Regd. Architect

*[Signature]*  
**PRANKA KUMAR**  
Signature of Regd. Str. Engr.  
INDIAN INSTITUTE OF ENGINEERS  
CHARTERED ENGINEER (INDIA)  
REGN No. - AM1872578

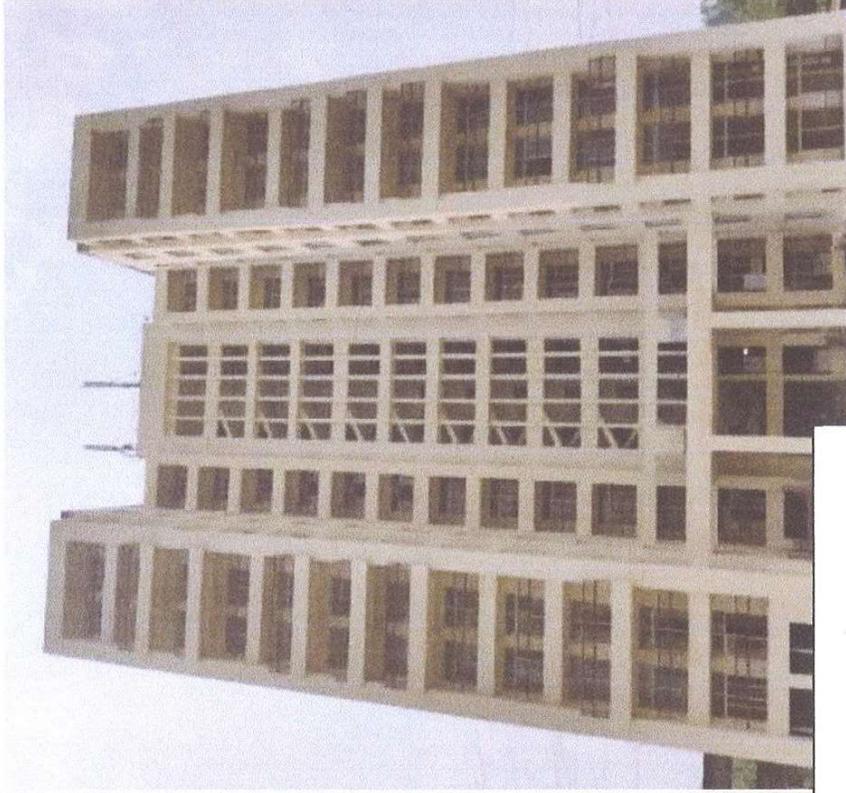


**Photos : C1 Tower**

Address : Plot No. - 683 (P), 753 (P), 754 (P), 755 (P), 712 (P),  
Khata No. - 14, 29, 59, 131  
Mouza - Narendrapur, Tahasil - Odapada

For Tata Steel Ltd.

Mohit Das  
Chief, Corporate Services, TSM



*Sumana Basack*  
MRS. SUMANA BASACK  
COUNCIL OF ARCHITECTURE  
REGN. NO.-CA/2006/38842