



TSL/MoEF&CC/BS-01/2022-08/267

November 30, 2022

**The Member Secretary**

State Level Environment Impact Assessment Authority,  
5RF-2/1, Unit-IX,  
**Bhubaneswar-751022**

**Subject:** Submission of six-monthly EC compliance reports for construction of residential quarters (township) project at Tata Steel Limited, Meramandali for the period April 2022 to September 2022.

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

Dear Sir,

This has reference to the captioned subject and cited references. It is to inform that we are herewith submitting six monthly compliance reports for the conditions stipulated in the Environment Clearance for construction of residential quarters (township) project at Tata Steel Limited, Meramandali for the period from April 2022 to September 2022 for your kind consideration.

The copy of above compliance report is also being sent in soft format through email ([roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in) & [seiaaorissa@gmail.com](mailto:seiaaorissa@gmail.com)) for your kind perusal. Also copy of EC compliance is being uploaded in MoEF&CC 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*

**Anoop Srivastava**

**Chief Environment -TSM**

**Encl:** As above

**Copy to:**

1. The Deputy Director General of Forests (C), MoEF&CC, Integrated Regional Office, A/3, Chandrasekharapur, Bhubaneswar-751023
2. The Zonal Officer, Central Pollution Control Board, Southern Conclave Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107.
3. The Member Secretary, SPCB, Parivesh Bhawan, A/118, Nilakahanta Nagar, Unit- VIII, Odisha, Bhubaneswar-751012.
4. The Regional Officer, State Pollution Control Board, Odisha, Angul.

**TATA STEEL LIMITED**

Narendrapur Kusunpanga Meramandali Dhenkanal 759 121 Odisha India Tel 91 6762 352000

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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 file no. C-1312-2018 dated 19.01.2021 and is valid upto 18.01.2026 and</li> <li>• Structural stability (safety) certificate vide letter no. 985BP/TAMDA dated 11/05/2017.</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	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.
3	The PP is liable to pay penalty at the rate prescribed vide clause 12(ii) of the MoEF&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.	Relevant information was furnished to State Pollution Control Board alongwith Consent to Establish application dtd.07.07.21 and Consent to Operate application dtd.20.02.2022. Subsequently, Consent to Establish and Consent to Operate have been obtained from SPCB, Odisha.

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4	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.	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.
5	Since this township project over approx.50-acres land has been delinked from the Steel Plant & 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.	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.
6	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	Fire Safety under Odisha Fire Prevention and Fire Safety Rules, 2017 (with amendments) and the Structural Stability (safety) Certificate has been obtained.
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.

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Water Conservation and RainWater Harvesting		
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 phase.
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 drawal of water from the river.	Permission for drawal of water was obtained on 19.04.2007 from Department of Water resources Govt. of Odisha. Copy of the permission and agreement is attached as <b>Annexure- I</b> .  A water meter has been installed to measure the quantity of drawal of water from the river.
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.	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 Apr'21 to Sep'22 is 80 m <sup>3</sup> /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.	Water saving devices like fixtures for showers, aerators, low flow toilet flushing have been installed for water conservation purpose.

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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..
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 plan has been submitted to SEIAA vide letter no. TSL/SEIAA/BS-30/2021-12/142 dated 22.12.2021.
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.	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.

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		<p>STP outlet water quality monitoring report for the period Apr'22 to Sep'22 is given in the following table.</p> <table border="1"> <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>7.03 - 7.80</td> <td>35 - 74</td> <td>14.3 - 22</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	7.03 - 7.80	35 - 74	14.3 - 22
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	pH	Suspended Solid in mg/l	BOD (3days at 27°C) in mg/l										
Colony STP O/L	7.03 - 7.80	35 - 74	14.3 - 22										
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.											

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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 construction & demolition wastes including linkage with authorized agencies for disposal and reuse shall conform to the prescriptions of the above Rules and related guidelines.	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 (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. The organic waste converter of capacity 0.25 TPD is already installed and 6 TPD organic waste converter installation is in progress.
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.

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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.	No wastewater is being discharged to drain.
<b>Energy Conservation</b>		
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 are 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.
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.	5% of the projected power requirement of the township will be made from renewable energy/solar power by Mar'23.
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.



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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.	Solar power based lighting installation in the apartment is in progress to reduce the power load. Separate electric meter installation for solar power will be done by Mar'23. Solar power based water heaters have been planned in the guest house by Mar'23.
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 and a quarterly utilisation report in this regard is periodically submitted to SPCB. Last report submitted vide letter no. TSL/SPCB/BS-30/2022-03/254 dated 01/11/2022.
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 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.	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 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	The construction and demolition wastes generated from the project site are being managed and disposed of as per the provision under "Construction & Demolition Wastes Management Rules 2016".

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	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.	Necessary PPEs such as safety helmet, safety shoes, gloves, goggles, dust mask etc. are being provided to all the workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris and working in any area with dust pollution. This is now a mandatory requirement and one of the conditions of employment in our company & also a part of personal safety action plan for each employee.
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 8.4 m height attached to 250KVA DG set construction is in progress, fabrication work completed, and civil work is in progress.  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. Every care has been taken to reduce the noise level during the construction phase.

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		Noise monitoring report for the period April-Sept'22 is given in following table.										
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<b>Green Cover</b>												
44	Green-belt & 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 & 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>60,589.2 m<sup>2</sup> of the township area has been covered with plantation.</p> <p>Proper green belt has been designed to attenuate the day and night noise level within the prescribed limit and to serve as sink for pollutants to allow the dust and other particulates to settle on leaves.</p>										
45	The proponent shall encourage composting of organic waste, vermiculture, bee-culture, floriculture and ornamental horticulture for beautification of the township.	Leaf litter and other horticulture wastes are converted into compost.										
46	Roof top rain water harvesting shall be adopted for each proposed Building as part of the rainwater harvesting at the whole site.	Rooftop rainwater has been adopted for Type-A high rise buildings.										
<b>Parking</b>												
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.										
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.	Signage has been provided along all internal roads like road markings for										

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		pedestrian pathways, speed limits, etc. for smooth movement of traffic.
49	The proponent shall provide adequate parking area for four wheelers, two wheelers and cycles in the township for the inhabitants and visitors.	
<b>TopSoil Preservation and Reuse</b>		
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 relaid at plantation and such other sites.	Topsoil was used for gardening and plantation purpose.
<b>Traffic &amp; Transportation</b>		
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 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	

**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**

	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	Compliance with all environmental protection measures as recommended in the EMP report is being ensured. A dedicated Environment Monitoring Cell with defined functions and responsibilities have been put in place to implement the EMP.

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	operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.	
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.	Half-yearly compliance reports on environmental monitoring in respect of the stipulated conditions in this Environmental Clearance for the period October 2022 to March 2022 has been submitted to SEIAA Odisha, SPCB & Regional Office of the MoEF&CC, Odisha vide letter no. TSM/MoEF&CC/BS-30/2022-01/211 dated 31.05.2022 and is valid till 31.03.2026.
<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.
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 vide letter no. 19511/IND-II-CTE-5518 (pt.) dated 06/12/2021 and no. 5425/IND-I-CON-6826 dated 31.03.2012 respectively.

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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 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.	CER is under implementation and shall be completed within 3 years.
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.

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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 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.
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	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> .



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	processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
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/MoEF&CC/BS-30/2022-01/211 dated 31.05.2022.
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 to the respective Regional Offices of MoEF & CC, Govt. of India by E-mail.	Environmental Statement for the financial year 2021-22 in Form-V has been submitted vide letter no. TSL/SPCB/BS-30/2022-06/250 dated 30.09.2022 to all concerned authorities as prescribed under the Environment (Protection) Rules 1986, and its amendments. And same has been uploaded to the company website along with Half-Yearly EC compliance.

TOTAL PAGES = 4 PAGES

FOR SHRI LALIT TRIVEDI  
BSL, MeramundaliGovernment of Orissa  
Department of Water Resources

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No. 12525 /WRDate: 19-4-07

HC-II-WRC(1)/07

From.

Shree D. Sahoo  
Under Secretary to Government

To

The General Manager Commercial  
Bhusan Steel and Strips Ltd.  
41 HIG, BDA, Jaydev Vihar, Bhubaneswar- 751013

Sub:- Drawal of Water by M/s Bhusan Steel and Strips Ltd. for their proposed Mga Integrated Steel Plant, At.- Meramundali District - Dhenkanal.

Sir,

I am directed to invite a reference to the letter No.-20661 dt.29.12. 2006 of Engineer-in-Chief, Water Resources on the subject mentioned above and to say that Government in Water Resource Department have been pleased to accord permission in principle in favour of M/s Bhusan Steel and Strips Ltd. for drawal of 46 cusecs of water from river Brahamani At.-Kurunti in 1st phase for their proposed plant at Meramundali, District - Dhenkanal subject to the condition that the company will have to submit a Water Management plan for vetting by the Water Allocation Committee before permission is finally accorded to draw water from river Brahamani without assurance during non- monsoon and lean period with the following terms and condensations.

- 1 For construction of head works and control mechanism i.e. intake well, pump house and other related facilities. M/S Bhusan Steel and Strips Ltd.. will get the land leased in their favour through IDCO as is done in respect of any other Govt. land required by the industry. IDCO will make available land on long term lease to M/s Bhusan Steel and Strips Ltd.. The continuance of the lease agreement will be subject to the condition that the industry shall pay water charges as per prevailing water rate and all other dues of Government and IDCO from time to time.
- 2 M/s Bhusan Steel and Strips Ltd. would be required to pay advance water charge for a year in cash as non-interest bearing security deposit with Govt. to be adjusted against defaults, besides advance payment of applicable water charges based on demand for a period of one year through issue of a irrevocable bank guarantee to be renewed before two moths of expiry every such period -as a continuing arrangement. The water charge will be paid by the M/s Bhusan Steel and Strips Ltd. one month in advance.

3. M/s. Bhusan Steel and Strips Ltd.. will be allowed to construct connecting water line from the head works.
4. In case of water supply for M/s Bhusan Steel and Strips Ltd. is to be met from a common source through a sharing mechanism, such common infrastructure for drawal of water will be constructed, maintained and operated either by IDCO or Special Purpose Vehicle (SPV) after taking due clearancc from IDCO. Water will be supplied to M/s Bhusan Steel and Strips Ltd.. by IDCO /SPV and they would also be liable for payment of water rent to the Govt. and will in turn have arrangements similar to (1) & (2) detailed earlier.
5. In water management plan M/s Bhusan Steel and Strips Ltd will have to show clearly as to what storage facility the company will create for the lean season and to what extent and how the water is going to be recycled. This plan should be a part of the project report of the unit.
6. They will not disturb the normal flow of water so that riparian rights in the down stream will be affected and the Company shall have no claim on the account.
7. The drawal of water will be in accordance with the provision of Orissa Irrigation Act, 1959 and Orissa Irrigation Rules, 1962 and amendments made from time to time.
8. M/S Bhusan Steel and Strips Ltd.. will execute an agreement with local authority of Water Resources Deptt. in accordance with the Orissa Irrigation Rules.
9. A flow meter shall be installed by the Department the cost of which will be borne by M/s Bhusan Steel and Strips Ltd. and the quantity of water drawn will be measured by a competent technical person of Water Resources Deptt. and if the excess water is drawn, the penal rate will be charged as per terms and conditions of the agreement.
10. M/S Bhusan Steel and Strips Ltd. will treat any waste water generated to acceptable norms before disposal.
11. M/S. Bhusan Steel and Strips Ltd. will submit the detailed scheme i.e. detail of intake well etc. to the concerned Basin Manager and only after approval of the scheme they will go ahead with the scheme for drawal of water.
12. There shall not be any disturbances with the present eco-system and other environmental set up with minimum loss during transportation.

13. The exact place for lifting will be decided in consultation with the competent authority of Water Resources Deptt.
14. M/s Bhusan Steel and Strips Ltd. may engage at their own cost consultant(s) experienced in the field to take up field investigations, prepare design and drawing to set up the water supply scheme for drawing water from the canal for their proposed plant. The actual work will start after approval of the scheme by the competent authority of Water Resources Department who can inspect the work during the construction.
15. The Company will pay the water rate for the quantity of water allocated to them or utilized whichever is higher as per rate in force and to be fixed by the Govt. from time to time/ penal rate as mentioned in condition no. 9.
16. The R&R Action Plan/Welfare Action Plan, if so required will be prepared in conformity with the current Orissa R&R policy and executed by the company at its own cost under the supervision of the Water Resources Department and the Collector & District Magistrate, Dhenkanal.
17. M/S. Bhusan Steel and Strips Ltd. should not claim as a matter of right to get the desired quantity of water during non-monsoon and lean period to meet their full industrial use and the Company to make adequate storage facility in their own land for supply of water to their plant during such period.
18. The safety design of all the structures lies fully on the Company.
19. In case of any dispute/interpretation required the decision of the Govt. in Water Resources Deptt. shall be final.
20. Department of Water Resource will not be responsible for non-availability of water due to dry season disruption, repair and maintenance of canal/ Reservoir.
21. Any surplus power from the CPP shall be sold by M/s Bhusan Steel and Strips Ltd. to GRIDCO or any other entity so notified by the State Government for the purpose under mutually acceptable terms and conditions.
22. This allotment will automatically lapse if the Company does not use the water for the purpose applied for within 3 years of allotment.

23. The agreement to be executed by the industry/commercial establishment with local authority/Executive Engineer must be approved by the DOWR before drawal of water,
24. The agreement so executed may be valid for a period of 3 years subject to the renewal of agreement after 3 years.
25. If it is found that the industry is drawing water before signing the agreement/installation of flow meter or with defective tampered flow-meter, the concerned local authority/Executive Engineer will charge a penal rate at double amount of water allocated.
26. Government shall be at liberty to review the water allocation unilaterally in case of exigencies.

Earlier permission order issued vide this Deptt. Letter No. 41673 Dt. 04.12.2003 stands cancelled. The second phase i. e 44 cusecs from Rengali Right Bank Canal will be considered later on,

Yours faithfully

*[Signature]*  
18.4.07  
Under Secretary to Government

Memo No. 12526 /Dt. 19-4-07  
Copy forwarded to Engineer-in-Chief, Water Resources / C.E.P.P.& F / Director (O&M) for information and necessary action.

*[Signature]*  
18.4.07  
Under Secretary to Government

Memo No. 12527 /Dt. 19-4-07  
Copy forwarded to Chief Engineer, & B.M, BRB Dhenkanal / Executive Engineer, Angul Irrigation Division, Angul for information and necessary action.

*[Signature]*  
15.4.07  
Under Secretary to Government

Memo No. 12528 /Dt. 19-4-07  
Copy forwarded to Department of Energy / Industries Department / Steel & Mines Department for information and necessary action.

*[Signature]*  
18.4.07  
Under Secretary to Government

Memo No. 12529 /Dt. 19-4-07  
Copy forwarded to M.D. IPCOL / M.D. IDCO / MD, GRIDCO for information and necessary action.

*[Signature]*  
18.4.07  
Under Secretary to Government