TSM/ SEIAA /BS-30/2023-09/396
November 30, 2023

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

Subject: Half yearly EC compliance reports of Residential Township of Tata Steel Limited, Meramandali for the period April'23 to Sept'23.

Reference: EC vide letters 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 of Residential Township of Tata Steel Ltd., Meramandali for the period from April 2023 to September 2023 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) 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

Anoop Srivastava
Chief Environment

Copy to:

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

S.N.	Description	Compliance Status
Specific Condition		
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 • Consent to Operate vide letter no. 5425/IND-I-CON-6826 dated 31.03.2022 and valid till 31.03.2026. • Occupancy certificates vide registration no. 168/TAMDA dated 11.02.2021, • Fire safety certificate vide file no. C-1312-2018 dated 19.01.2021 and is valid upto 18.01.2026 and • Structural stability (safety) certificate vide letter no. 985BP/TAMDA dated 11/05/2017.
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. The approved remediation plan and natural & community resource augmentation plan along with the EMP have been implemented. The Compliance with request to release the Bank Guarantee was submitted at State Pollution Control Board, Odisha vide letter No. TSL/SPCB/BS-30/2023-08/391 dtd.17.11.2023. The copy of the same is enclosed as **Annexure-I.**
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.	In compliance to the letter No. 2695/SEIAA Dt. 15/09/2021 and clause 12(ii) of the MoEF&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. 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 dated23.06.21.
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.
Natural Drainage		
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.
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 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. Copy of the permission and agreement is attached as **Annexure- II**. 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.	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	The quantity of freshwater usage for the period Apr'23 to Sep'23 is 67 m3/hr. 100% of STP water is reused in

	project. The record shall be submitted along with the six-monthly Monitoring reports.	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.
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^3 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	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

<table>
<tr><td></td><td>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.</td><td>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.</td></tr>
<tr><td>19</td><td>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.</td><td>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.

STP outlet water quality monitoring report for the period Apr’23 to Sep’23 is given in the following table.

<table><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><tr><td>Colony STP O/L</td><td>6.88-7.94</td><td>5.4-25</td><td>2.5-22</td></tr></table></td></tr>
<tr><td>20</td><td>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.</td><td rowspan="2">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.</td></tr>
<tr><td>21</td><td>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.</td></tr>
</table>

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.
	Solid Waste	
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	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

	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.	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 oorganic 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 brunt.
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. In 1st phase 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.
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,	• Solar power-based lighting installation in the apartment is in progress to reduce the power load. • Installed 7 no. of solar electric meter which help us monitor our energy consumption and efficiency.

	whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	• 4 KLD solar based water heater installation is in progress.
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. During the period Apr'23 to Sep'23, 167114 Nos. of fly ash bricks and 471208 Nos. of paver block has been constructed and utilized in road construction in the plant.
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.
	Air Quality Management and Noise Management	
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 working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or	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". Necessary PPEs such as safety helmet, safety shoes, gloves, goggles, dust mask etc. are being provided to all the workers

	working in any area with dust pollution shall be provided with dust mask.	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. Noise monitoring report for the period April-Sept'23 is given in below table:

		<table><tr><th>Location</th><th>Colony</th></tr><tr><td>Noise level in dB(A) Leq (Day Time Range)</td><td>51.3-53.9</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>43.6-46.9</td></tr><tr><td>Standard dB(A) Leq (Night Time)</td><td>45</td></tr></table>
	Green Cover	
44	Green-belt & avenue plantation of trees over the area of 60,589.2 m2 (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.	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.
45	The proponent shall encourage composting of organic waste, vermiculture, bee-culture, flori-culture 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.
	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
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.	

		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.	Adequate parking for area for four wheelers, two wheelers and cycles have been provided.
	TopSoil 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 relaid 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. • Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. • Traffic calming measures • Proper design of entry and exit points. • Parking norms as per local regulation	
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 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.
	Environment Management Plan	
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	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.

	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.	
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 the Environmental Clearance is being submitted regularly. Latest compliance for the period October 2022 to March 2023 has been submitted to SEIAA Odisha, SPCB & Regional Office of the MoEF&CC, Odisha vide letter no. TSM/MoEF&CC/BS-30/2023-05/346 dated 31.05.2023.
General Condition		
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 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 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	The EC letter was displayed at the Regional Office, District Industries center and Collector's Office/ Tehsildar's office for 30 days.

	centre 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 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 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 http://www.tatasteel.com.
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, S02, NOx (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 http://www.tatasteel.com. 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-30/2023-05/346 dated 31.05.2023.
17	The environmental statement for each financial year ending 31st 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.

LIST OF ENCLOSURES

Sl. No.	Enclosure	Details
1.	Annexure -I	Request letter to release BG
2.	Annexure -II	Permission to withdraw water

Annexure-I

TSL/SPCB/BS-30/2023-08/391
November 17, 2023

The Chief Environment Engineer
State Pollution Control Board, Odisha
Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII
Bhubaneswar-751 012

Subject: Submission of Compliance with request to release the Bank Guarantee for Residential Quarters (Township) of Tata Steel Limited, Meramandali – Regarding.

References:

1. Our letter no. TSL/OSPCB/BS-30/2021-10/134 dated Nov 29, 2021
2. EC granted by SEIAA, Odisha vide letter no. 2882/ SEIAA dated Sep 28, 2021

Dear Sir,

This has reference to the captioned subject and cited references. This is to inform that Environmental Clearance (EC) for construction of Residential Quarters (Township) for staff was granted to Tata Steel Limited, Meramandali by SEIAA, Odisha vide letter no. 2882/SEIAA dated Sep 28, 2021. This is to submit that the relevant conditions stipulated in the above referred EC are compiled and the six-monthly EC compliance report is also being submitted regularly to your good office.

The specific condition no. 2 of the above referred EC states as follows:
"*As per MoEF&CC Notification dated 14.03.2017, followed by MoEF&CC letter F. No. 23-128/2018-IA.III dated 18.09.2022, 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.*"

In compliance to the above specific condition, a BG worth ₹ 2.6 Crores was deposited with the Odisha State Pollution Control Board vide our letter no. TSL/OSPCB/BS-30/2021-10/134 dated Nov 29, 2021. Copy of the acknowledgement letter is attached as **Annexure-I** for your kind reference.

We are pleased to inform that we have successfully implemented the above approved remediation plan and natural & community resource augmentation plan along with the EMP for the Residential Quarters (Township) of Tata Steel Limited, Meramandali in the month of October 2023. The pointwise compliance of above approved remediation plan and natural & community resource augmentation plan and compliance to EMP are attached herewith as **Annexure-II** & **Annexure-III** respectively for your kind perusal and consideration.

In view of the above, we would like to request your good self to consider our efforts to implement the above plans and release the Bank Guarantee at the earliest.

Thanking you,

Yours faithfully,
For Tata Steel Limited

Anoop Srivastava

Anoop Srivastava
Chief Environment, TSM

Encl: As above

Copy to: The Regional Officer, State Pollution Control Board, Angul, Odisha

Received
No.....Dt. 18/11/23
RECEIVED
18 NOV 2023
S.P.C. BOARD
BHUBANESWAR-12

REGIONAL OFFICE ORISSA POLLUTION CONTROL BOARD
No. 2500 Dt. 29/11/2023
ANGUL

Annexure-1

OIC

TSL/OSPCB/BS-30/2021-10/134
29th Nov' 2021

The Member Secretary
State Pollution Control Board, Odisha
Parivesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII,
Bhubaneswar-751012

Sub: Submission Bank Guarantee to comply environmental clearance condition for construction residential township of Tata Steel Ltd. (formerly Tata Steel BSL Ltd.)

Ref: SEIAA letter No.2882 dtd.29.09.21

Dear Sir,

We would like to draw your kind attention that State Environment Impact Assessment Authority (SEIAA) has granted Environmental Clearance vide letter No. 2882/SEIAA dtd. 28.09.21 for construction of Residential Quarter (Township) projects for staffs of Tata Steel Ltd. (formerly Tata Steel BSL Ltd.), Meramandali, Dhenkanal. SEIAA has advised to submit bank guarantee of Rs.2,60,00,000/- (Rupees Two Core Sixty lakh) towards cost of implementing remediation plan, natural and community resource augmentation plan with State Pollution Control Board.

As required, we are submitting herewith bank guarantee vide BG No.2910IGF002764621 dtd.10.11.2021 of Rs.2,60,00,000/- (Rupees Two Core Sixty lakh) only on Bank of Baroda, Mumbai, having validity till 09.11.2024.

This is for your kind information and necessary action.

Thanking you,

Received 30/11/2021

Yours faithfully,
f:Tata Steel Limited

Saroj K Banerjee

Saroj Kumar Banerjee
Chief Environment

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
30 NOV 2021
ODISHA

30 NOV 2021
S.P.C. BOARD
BHUBANESWAR-12

Encl: Original Bank Guarantee of Rs. 2,60,00,000/- (Rupees Two Core Sixty lakh).

Copy to: The Member Secretary, State Environment Impact Assessment Authority (SEIAA), Odisha, Bhubaneswar -751022.

TATA STEEL LIMITED
Narendrapur Kusupanga Meramandali Dhenkanal 759 121 Odisha India Tel 91 6762 352000
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 66654282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

महाराष्ट्र MAHARASHTRA ◑ 2021 ◑ BG 844420

10 NOV 2021

प्रधान मुद्रांक कार्यालय, मुंबई.
प.मु.वि.क्र. ८०००००६
18 OCT 2021
सक्षम अधिकारी

श्री. सी. टी. आंबेकर

This stamp paper is an integral part of BG No. 2910 IGF 002764621

बैंक ऑफ बड़ौदा के लिए
FOR BANK OF BARODA

नियत ऑटार्नी
CONSTITUTED ATTORNEY

सुरेश अंभोरे / Suresh Ambhore
मुख्य प्रबंधक / Chief Mnager
A-870

Ashish Sharma/Sr. Manager
S.S. No. S-7149

बँक ऑफ बड़ौदा
BANK OF BARODA

Samachar Marg,
4th Floor, Fort, Mumbai - 400 023

मुद्रांक विकत घेणाऱ्याची सही
परवाना क्रमांक : ८००
एल. चव्हाण

22 OCT

1024

Bank of Baroda

PHYSICAL ISSUANCE OF BANK GUARANTEE

10 NOV 2021

BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT TOWARDS COST OF IMPLEMENTING REMEDIATION MEASURE CALCULATED BY SEAC (STATE EXPERT APPRAISAL COMMITTEE), ODISHA

B G NO 2910IGF002764621
DATE 10/11/2021

TO,
THE MEMBER SECRETARY,
ODISHA STATE POLLUTION CONTROL BOARD DEPARTMENT OF FOREST AND ENVIRONMENT
A/118, NILAKANTHA NAGAR,UNIT-VIII
BHUBANESWAR 751012

THIS DEED OF GUARANTEE EXECUTED ON 10/11/2021 BY THE BANK OF BARODA, HAVING ITS REGISTERED OFFICE AT MANDVI, BARODA, AND BRANCH OFFICE AT CORPORATE FINANCIAL SERVICES BRANCH 4TH FLOOR, 10/12, MUMBAI SAMACHAR MARG , FORT, MUMBAI 400 001, MAHARASHTRA, INDIA, (BANK) HEREINAFTER REFERRED TO AS THE GUARANTOR WHICH EXPRESSION SHALL UNLESS IT BE REPUGNANT TO THE SUBJECT OR CONTEXT INCLUDE ITS EXECUTORS, ADMINISTRATORS, SUCCESSORS, AND ASSIGNS IN FAVOUR OF STATE POLLUTION CONTROL BOARD, ODISHA (SPCB ODISHA) HAVING ITS OFFICE AT A/118, NILAKANTHA NAGAR, UNIT-VIII , BHUBANESWAR, PIN 751012, WHICH EXPRESSION SHALL UNLESS IT BE REPUGNANT TO THE SUBJECT OR CONTEXT INCLUDE ITS EXECUTORS, ADMINISTRATORS, SUCCESSORS.

WHEREAS IN THE STATE POLLUTION CONTROL BOARD, ODISHA (HERE IN AFTER CALLED SPCB ODISHA) AFTER THE APPROVAL TO GRANT ENVIRONMENT CLEARANCE BY SEIAA, FOR IMPLEMENTING FOR THE ENVIRONMENT REMEDIATION MEASURES AT FOR CONSTRUCTION OF RESIDENTIAL QUARTERS (TOWNSHIP) PROJECT OF TATA STEEL BSL LTD. FOR STAFFS OVER A PLOT OF AREA 49.801 LOCATED AT VILLAGE: NARENDPAPUR , PO: KUSUPANGA , TAHASIL: ODAPADA , DISTRICT: DHENKANAL , ODISHA., REPRESENTED BY AUTHORIZED SIGNATORY NAMELY Mohit Das HEREINAFTER REFERRED TO AS APPLICANT OF THE SAID COMPANY HAVING ITS OFFICE AT GROUND FLOOR MIRA CORPORATE SUITES , PLOT NO. 1AND2 MATHURA ROAD ISHWAR NAGAR ,NEW DELHI.

REQUIRES THE SAID APPLICANT TO FURNISH A BANK GUARANTEE OF RS.2.60 CRORE (RUPEES TWO CRORE SIXTY LAKH ONLY) (GUARANTEE AMOUNT) TOWARDS THE SECURITY DEPOSIT. AS DIRECTED BY STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA) THE SAID BANK GUARANTEE IS REQUIRED BY SPCB ODISHA IN LIEU OF THE UNDERTAKING WITH REGARDS TO CARRY OUT THE IMPLEMENTATION OF REMEDIATION MEASURES AS CALCULATED BY THE STATE EXPERT APPRAISAL COMMITTEE(SEAC) ODISHA AT THE APPLICANT'S COST.

बैंक ऑफ बड़ौदा के लिए
FOR BANK OF BARODA

Ashish Sharma/Sr. Manager
S.S. No. S-7149

सुरेश जांगीरे / Sr. Manager
A-8716
प्रेमचंद जॉलगी
AUTHORISED SIGNATORY
CONSTITUTED AT :

10 NOV 2021

IN CONSIDERATION OF THE STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA) GRANTING ENVIRONMENT CLEARANCES TO THE APPLICANT TO CARRY OUT THE IMPLEMENTATION OF REMEDIATION MEASURE AT FOR CONSTRUCTION OF RESIDENTIAL QUARTERS (TOWNSHIP) PROJECT FOR STAFFS OVER A PLOT OF AREA 49.801 LOCATED AT VILLAGE: NARENDPAPUR , PO: KUSUPANGA , TAHASIL: ODAPADA , DISTRICT: DHENKANAL , ODISHA SUBJECT TO THE FULFILLMENT OF THE REMEDIATION MEASURES.

THE BENEFICIARY MAY, IN THEIR OWN INTEREST, VERIFY THE GENUINENESS OF THE BANK GUARANTEE BY SEEKING CONFIRMATION OF THE ISSUANCE FROM THE BRANCH OF BANK OF BARODA, MUMBAI OTHER THAN THE ISSUING BRANCH.

GUARANTOR HEREBY COVENANTS AS FOLLOWS:

THAT THE GUARANTOR (BANK) IRREVOCABLY GUARANTEES AND UNDERTAKES THAT IF THE APPLICANT COMMITS DEFAULTS IN OBSERVANCE OF ANY OF THE TERMS AND CONDITIONS OF THE GUARANTEE, THE BANK SHALL ON DEMAND ANY WITHOUT ANY DEMUR PAY TO THE STATE POLLUTION CONTROL BOARD ODISHA AS SUM OF RS.2,60,00,000/-(RUPEES TWO CRORE SIXTY LAKH ONLY) AND THE BANK FURTHER UNDERTAKES TO INDEMNIFY AND KEEP INDEMNIFIED THE SPCB ODISHA TO THE EXTENT OF THE SAID SUM OF RS.2,60,00,000/- (RUPEES TWO CRORE SIXTY LAKH ONLY) AGAINST LOSS OR TO THE EXTENT OF DAMAGE CAUSED TO BE SUFFERED BY THE SEIAA BY THE REASON OF ANY BREACH BY THE APPLICANT WHEREBY THEY HAVE FAILED AND NEGLECTED TO OBSERVE ANY OF THE TERMS AND CONDITIONS OF THIS GUARANTEE AND AS TO THE AMOUNT PAYABLE BY THE BANK TO THE SPCB, ODISHA HEREUNDER BENEFICIARY'S DECISION SHALL BE FINAL AND BINDING ON THE BANK.

THE GUARANTOR FURTHER GUARANTEES AND UNDERTAKES THAT IF THE STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA) AT ANY TIME CANCELS THE CLEARANCE GRANTED TO THE APPLICANT AND THE SPCB ODISHA HAS TO CARRY OUT AND COMPLETE REMEDIATION MEASURES CAUSED TO BE CARRIED OUT OR TO BE COMPLETED THE PROJECT AT THE COST OF THE SPCB, ODISHA THE GUARANTOR SHALL PAY ALL THE CHARGES IN RESPECT OF SUCH WORKS TO THE SPCB ODISHA TO THE EXTENT OF AMOUNT GUARANTEED UNDER THIS GUARANTEE AT THE VERY FIRST WRITTEN DEMAND DULY SIGNED BY AUTHORIZED SIGNATORY OF BENEFICIARY (I.E. MEMBER SECRETARY, SPCB, ODISHA)

THE GUARANTOR FURTHER AGREES THAT THE GUARANTEE HEREIN CONTAINED SHALL REMAIN IN FULL FORCE AND EFFECT FOR THE PERIOD OF 36 MONTHS FROM THE DATE OF ISSUANCE OF BG.

THE BANK GUARANTEE SHALL BE RELEASED ON INSTRUCTION FROM SPCB, ODISHA AFTER GRANTING THE NOC FROM SEIAA, OR BY EXPIRY DATE OF THIS BG I.E., 09/11/2024, WHICHEVER IS EARLIER.

THE CONTINUATION OF THE GUARANTEE HEREIN SHALL NOT BE AFFECTED BY ANY BREACH IN THE CONDITION EITHER BY THE APPLICANT OR THE GUARANTOR.

THE SPCB ODISHA SHALL HAVE THE FULLEST LIBERTY WITHOUT AFFECTING THE GUARANTEE TO POSTPONE FOR ANY TIME AND FROM TIME TO TIME ANY OF THE POWER EXERCISABLE BY IT AGAINST THE APPLICANT EITHER TO ENFORCE OR FORBEAR ANY OF THE TERMS AND CONDITIONS UNDER THIS GUARANTEE OR UNDER THE ACT AND THE RULES AND THE GUARANTOR SHALL NOT BE RELEASED FROM ITS LIABILITY UNDER THE GUARANTEE BY ANY EXERCISE BY THE SPCB, ODISHA OF THE LIBERTY WITH REFERENCE TO THE MATTER AFORESAID OR BY THE REASONS OF TIME BEING GIVEN TO THE APPLICANT, ANY OTHER

बैंक ऑफ बड़ौदा के लिए
FOR BANK OF BARODA

Ashish Sharma/Sr. Manager
S.S. No. S-7149

CONSTITUTED ATTORNEY

मुख्य प्रबंधक / Chief Manager
A-870

1 0 NOV

FORBEARANCE ACT OR OMISSION ON THE PART OF THE SPCB ODISHA OR ANY INDULGENCE BY THE SPCB ODISHA, TO THE APPLICANT OR BY ANY OTHER MATTER OF THINGS WHATSOEVER WHICH UNDER THE LAW RELATING TO SURETIES SHOULD BY FOR THIS PROVISIONS HAVE THE EFFECT OF RELEASING THE GUARANTOR FROM ITS SUCH LIABILITY.

NOTWITHSTANDING ANY THING TO THE CONTRARY CONTAINED HEREINABOVE

1.OUR LIABILITY AS THE GUARANTOR UNDER THIS GUARANTEE SHALL NOT EXCEED RS.2,60,00,000/- (RUPEES TWO CRORE SIXTY LAKH ONLY).

2.THIS GUARANTEE SHALL REMAIN VALID UP TO 09/11/2024 (BEING THE DATE OF EXPIRY OF THE GUARANTEE) AND

3.ALL RIGHTS OF THE STATE POLLUTION CONTROL BOARD, ODISHA UNDER THIS GUARANTEE SHALL STAND EXTINGUISHED UNLESS A WRITTEN CLAIM OR DEMAND IS MADE UNDER THIS GUARANTEE ON OR BEFORE 09/11/2024.

THIS GUARANTEE WILL BE OPERATIVE WHEN ACCOMPANIED WITH ADVICE (SFMS) ISSUED FROM THE ADVISING BANK.

AUTHORIZED SIGNATORY
PLACE: MUMBAI
DATE 10/11/2021

1 0 NOV 2021

बैंक ऑफ बड़ौदा के लिए
FOR BANK OF BARODA

नियत ऑटार्नी
CONSTITUTED ATTORNEY

सुरेश अंभोरे / Suresh Ambhore
मुख्य प्रबंधक / Chief Mnager
A-870

Ashish Sharma/Sr. Manager
S.S. No. S-7149

बैंक ऑफ बड़ौदा
BANK OF BARODA
कार्पोरेट वित्तीय सेवाएं शाखा, मुंबई
Corporate Financial Services, Br. Mumbai
10/12, मुंबई समाचार मार्ग,
10/12, Mumbai Samachar Marg,
चौथा माला, मुंबई - ४०० ०२३
4th Floor, Fort, Mumbai - 400 023

Annexure-II

Remediation plans Community and Natural Resource Augmentation Plan
(As per SEIAA letter No.2705/SEIAA dated 18.09.21)

S.N	Remediation Plan Community and Natural Resource Augmentation Plan approved by SEIAA		Compliance Status	Cumulative as on 31.03.23 (in lakh) (4)	
	Components (1)	Cost (in lakh) (2)	(3)	Capital	Operational
1.	**Water Conservation**				
a.	Create a pond at a suitable location to collect surplus rainwater and store it for use of water in summer and for recreation purpose.	**10**	**Complied** Pond has been created to collect rainwater for future use. Desilting & maintenance of ponds is being carried out every year before monsoon. Village pond has been renovated and maintained in the nearby villages.	**27**	**11.75**
b	Adequate rainwater harvesting has to done through suitably located pits	**92.5**	**Complied** Rainwater harvesting Pond of capacity 2500 m^3 has been constructed to collect rainwater from A1 and A2 High Rise Building.	**92.5**	**-**
c	All the wastewater has to be treated in a STP, and treated wastewater has to be recycled. No wastewater even if treated shall be released outside the township limit on "Zero discharge" principle.	**36.5**	**Complied** All the wastewater is being treated in STP of capacity 1000m3/day and treated water is being reused in low end application of steel plant. Zero effluent discharge is being maintained at Township. A dedicated laboratory has also been set up at colony for day-to-day monitoring of Water & Wastewater parameters. Study has also been conducted for grey and black water separation.	**47**	**73**
d	Quantum of ground water to be drawn by bore well has to be judiciously kept at optimum level, so as not to allow over use or wastage of water.	**-**	**Complied** No ground water has been used in township. Water is being sourced from Steel Plant.	**-**	**-**

S.N	Remediation Plan Community and Natural Resource Augmentation Plan approved by SEIAA		Compliance Status (3)	Cumulative as on 31.03.23 (in lakh) (4)	
	Components (1)	Cost (2)		Capital	Operational
2.	**Wastewater**				
a	The wastewater drain has to totally separate from storm water drains so that they don't mix. A proper outlet for storm water has to be provided to discharge to a permitted drain not to any natural nullah.	**17**	**Complied** 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.	-	**18**
3.	**Dust Control**				
a.	Monitoring station (at least one) should be set up within the township to measure concentration of SPM 10 and SPM 2.5 in the Ambient Air. The real time values should be displayed over the entrance gate.	**12**	**Complied** One CAAQMS has been setup and is being operated uninterruptedly to monitor PM 10, PM 2.5, SO_2 and NO_x in Ambient Air. The real time value is being displayed at main gate and connected with RTDS server of State Pollution Control Board.	-	**18**
b.	Adequate number of mobile water tankers should be deployed in the township which will get activated automatically when SPM level rises beyond the prescribed limit and shall start sprinkling of water all over the township premises.	**4**	**Complied** a. Water tankers are being deployed outside the colony for water sprinkling at material transportation to avoid dust emission to atmosphere and to keep PM10 level within the prescribed limit. b. Mechanical Road Sweeping is being done periodically in all internal roads with the help of Dulevo	-	a. **61.83** b. **52.73**
c.	The premises of the township should be paved by laying pucca road and by covering the vacant area by grasses and lawns.	**7**	**Complied** All the internal road has been concreted and vacant area has been developed into lawns and grass topping. Apart from concrete road, Basketball Court, Pathway has been developed (concrete & Interlocking paver block in the sports complex area.	**25**	**-**

S.N	Remediation Plan Community and Natural Resource Augmentation Plan approved by SEIAA		Compliance Status (3)	Cumulative as on 31.03.23 (in lakh) (4)	
	Components (1)	Cost (in lakh) (2)		Capital	Operational
4.	**Greenery**				
a.	At least 1000 trees/ha should be established to cover the entire township area. The trees should be of medium crown size, evergreen species, like Jamun, Bela, Ashoka, Baula, Champa, mahogany and amla etc.	**15**	**Complied (with 1092 trees/Ha.)** 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.	-	**124**
5.	**Solid Waste Disposal**				
a.	Micro composting pits should be organized to collect biodegradable waste. It should all be stored and utilized in the township itself. Other kinds of solid waste have to be suitably disposed off to authorized agency, and not dumped here and there.	**54**	**Complied** A long-term contract has been made with Tata Steel Utilities & Infrastructure Services Limited (TSUISL) to install and operate oorganic waste composter of 6 Ton/day. The organic composter was commissioned and in operation from 05.10.23.	-	**104 (annum) 8.6 lakh**
6.	**Power**				
a.	All the streetlights and landscaped and paved outer areas should be run on solar power. Solar panel should be set up in adequate numbers for reducing consumption of grid electrical power. LED based lighting only is to be used for domestic lighting, signages, entry and exist areas.	**12**	**Complied** LED bulb only has been used for domestic lighting. All lights of common area are changed to LED based lighting. Common area lighting in high rise buildings is in Solar. Total 8389 units of Solar power used till date. 30 nos. of solar streetlights are ready for installation at site. Energy Conservation and Building Code (ECBC) study has also been conducted.	-	**26.94**
Total		**260**		**191.5**	**394.85**
				586.35	

Annexure-III

Compliance to Environment Management Plan
(EC letter No.2705/SEIAA dated 18.09.21)

A. Air Quality Management

The following measures are being undertaken to keep the Ambient Air Quality within the stipulated norms.

- All internal roads have been concreated and cleaned by mechanical road sweepers.
- Water sprinkling is being carried out at NH and raw material road to reduce the fugitive dust emission from roads.
- Catalytic converters have been fitted with construction equipment to reduce the generation of hydrocarbon and carbon monoxide during idle time.
- **Use of clean Fuel by vehicles on-site** : Low sulphur diesel is being used as clean fuel. This is reducing emissions on-site and in areas from where these vehicles pass. Vehicles without PUC are not allowed inside the township.
- One CAAQMS has been setup and is being operated uninterruptedly to monitor PM 10, PM 2.5, SO_2 and NO_x in Ambient Air. The real time value is being displayed at main gate and connected with RTDS server of State Pollution Control Board.
- All the internal road has been concreted and vacant area has been developed into lawns and grass topping. Apart from concrete road, Basketball Court, Pathway has been developed (concrete & Interlocking paver block in the sports complex area.

Ambient Air w.r.t Noise Management

- Noise generating equipment, machinery and vehicles operation is being restricted in nighttime and maintained properly to avoid generation of high noise from wear and tear.
- Job Rotation and Hearing Protection: Shift of workers employed in high noise areas being rotated. Hearing protection such as earplugs/muffs are being provided to those working very close to the noise generating machinery.
- Uses of PUC Certified vehicles are being ensured. Traffic management being ensured.
- Regular Noise Monitoring is being carried out for effective implementation of control measures.
- Silent DG Set has been provided with acoustic enclosure to have minimum 25 dB (A) insertion loss or for meeting the ambient noise standard whichever is on higher side as per E (P) Act, GSR 371 (E) and its amendments.

B. Water and Wastewater Management

- **Water Conservation:** Water saving devices like fixtures for showers, aerators, low flow toilet flushing have been installed for water conservation purpose.
- 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.
- **Rainwater harvesting**: Rainwater harvesting pond of capacity 2500 m^3 has been constructed to collect rainwater from A1 and A2 High Rise Building.
- Community Pond has been renovated as a part of water conservation plan.
- **Wastewater Management**: Proper drainage network with settling pit has been constructed to keep the suspended solid within the standard in surface runoff before discharge to any water body during monsoon.
- 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.
- All the wastewater generated from township is being treated in STP of capacity 1000m3/day and treated water is being reused in low end application of steel plant.
- Zero effluent discharge is being maintained at Township. A dedicated laboratory has also been set up at township for day-to-day monitoring of Water & Wastewater parameters.
- Common toilets have been provided for workers and the wastewater is being channelized to STP of 1000 KLD.
- Lawns have been developed in unpaved area adjacent to roads and planted where feasible.
- Leak-proof containers have been used to store and transportation of used oil and grease to avoid surface and ground water contamination. The floors of oil and grease handling area have been kept effectively impervious.

C. Solid Waste Management

- **Municipal Solid Waste Management**: The solid wastes generated are being properly collected and segregated as per the requirement of the Solid Waste (Management) Rules, 2016.
- Wastes is being collected from door to door. Biodegradable wastes and recyclable wastes are being collected in separate bins. Biodegradable wastes are being treated in the project premises by Organic Waste Composter. The recyclable wastes are being sent off to recyclers. Proper guidelines for segregation, collection and storage have been prepared as per Solid Waste Rules, 2016. To minimize littering and odour,

waste is being stored in well-designed containers/ bins that has been located at strategic locations to minimize disturbance in traffic flow.

- Care is being taken such that the collection vehicles are well maintained and generate minimum noise and emissions. Covered vehicle/ specially designated vehicle is engaged for transportation of the waste to avoid littering.
- A long-term contract has been made with Tata Steel Utilities & Infrastructure Services Limited (TSUISL) to operate 6 ton per day oorganic waste composter (OWC). The organic composter was commissioned and in operation.
- Plastic wastes generated are being properly collected, segregated, and disposed of as per the provision in Solid Waste (Management) Rules, 2016. Single use plastic of any type has been banned at residential township and market complex. Cotton bag was provided to all resident of the township to discourage use of plastic bags.
- **E-waste Management:** E-Wastes like printer cartridge, discarded Printer, laptops, mobiles, PCs etc. are managed by EPR system and returned to the supplier. Other E-wastes like fluorescence lamp and electrical fittings are sent to authorize recycler. 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.
- **Hazardous wastes Management**: Hazardous waste like used oil, paint cans, mercury lamps, and batteries are being disposed off through authorized agencies.
- **Biomedical Waste Management Practice:** The segregation of Biomedical waste is being done at the source itself and collected in separate waste containers/bags with proper label (i.e Bio-Hazard symbol/ Cytotoxic hazard symbol). Bio medical wastes are generated, handled, disposed with the biomedical waste authorization from Odisha Pollution Control Board.
- Segregated wastes are kept in designated color-coded bins.
- The waste sharps are disinfected and destroyed through mutilation and shredding and disposed into the blue color dustbin.
- Solid waste like cotton, dressing and other materials contaminated with blood is being disposed into the yellow color dustbin and finally incinerated. Syringe, needles, blades and other contaminated sharp objects kept in White Colored bins
- Solid waste like tubing, catheters, plastics, etc. are being disposed into the red color bin after treatment and finally handed over to the authorized recycler.

D. Energy Conservation

- 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.
- Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency is being ensured.
- 30 Nos. of solar streetlights, solar based light in common area of high rise building, and 4 KLD solar based water heater installation is in progress.
- 36 Nos. of solar base streetlights have been installed in service road of NH55.
- Installed 7 no. of solar electric meter which help us monitor our energy consumption and efficiency.
- The approval for the structural safety of the building as per the National Building Code of India, 2005 has been obtained.

E. Sanitary and Hygienic Measures

- All buildings, roads and drains are being cleaned on regular intervals.
- Mosquito control programme is being carried out at the colony.
- Modular toilet blocks have been constructed for workers and is being maintained.
- Zimmedaar Nagrik app has been adopted to serve the resident for any kind of repairing and sanitary services.
- First aid and medical facilities are available in the township health center and steel plant OHC.
- 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.

F. Greenbelt Development:

- 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.
- A phytographic barrier to shield the township from any air pollution impact of the Steel Plant stands along the Kisinda nala over an area of 0.367 acres has been developed. The steel plant and the residential colony shares a common boundary and the green belt/ phyto graphic barrier lies in between the plant and the colony albeit inside the plant premises. It comprises of a total of 274 trees, in four to five rows. Air pollutant absorbing trees such as *Alstonia scholaris* (115 number), *Delonix regia* (111 number) and *Polyalthia longifolia (*28in number*)* have been planted.

G. Performance evaluation method adopted for pollution control system and waste management.

- **Environment review:** Review of environment performance parameters on daily basis by Head Operations and on a Monthly basis by MD and quarterly review at Board of Directors level.
- **Environment audits:** Pollution control systems performance evaluation through internal and external audits.
- **Monitoring system:** A dedicated water and wastewater testing laboratory establish and operated to ensure the quality of treated effluent. CAAQMS, CCTV cameras are installed to check the performance of pollution control equipment.
- **Operational control procedures:** Standard Operating Procedure (SOP) and Standard Maintenance Procedure (SMP) for operation & Maintenance of STP.
- Standard checklists to track the pollution control equipment performance parameters.

Annexure-II

Agreement No. 4 (IW) of 2023-24

OFFICE OF THE SUPERINTENDING ENGINEER,
RENGALI RIGHT CANAL DIVISION NO-II, DHENKANAL

Lr.No. 2251/WE /Dt 29.8.23

To
The Chief Corporate Services
TATA STEEL Ltd.,
Narendrapur, Kusupanga
Meramandali, Dist: Dhenkanal

Sub: - Certified copy of agreement for drawal of surface water from river Brahmani for the plant at, Narendrapur, Kusupanga, Meramandali, Dist: Dhenkanal

Sir,

With reference to the letter cited on the above subject, it is to intimate that agreement has been executed with you for drawal of surface water from river Brahmani for the plant at, Narendrapur, Kusupanga, Meramandali, Dist: Dhenkanal on 29.08.2023.

The certified copy of agreement No. 4(I.W) of 2023-24 Dt. 29.08.2023 is enclosed herewith for your needful action.

Encl: As above

Yours Faithfully,
29/8/23
Superintending Engineer
Rengali Right Canal Division No II

Memo No. 2252/WE /Dt. 29.8.23

Copy along with the certified copy of agreement submitted to the Addl. Secretary to Govt. Deptt. of Water Resources, Odisha, Bhubaneswar for favour of kind information and necessary action.

Encl: As above

29/8/23
Superintending Engineer
Rengali Right Canal Division No II

Memo No. 2253 (3)/WE /Dt. 29.8.23

Copy along with the copy of certified copy of agreement submitted to the Chief Engineer, Water Services, office of the Engineer-in-Chief, Water Resources, Sechasadan, Bhubaneswar / Chief Engineer, Rengali Right Irrigation Project, Dhenkanal/ Additional Chief Engineer, Rengali Right Irrigation Circle, Dhenkanal for favour of kind information and necessary action.

Encl: As above

29/8/23
Superintending Engineer
Rengali Right Canal Division No II

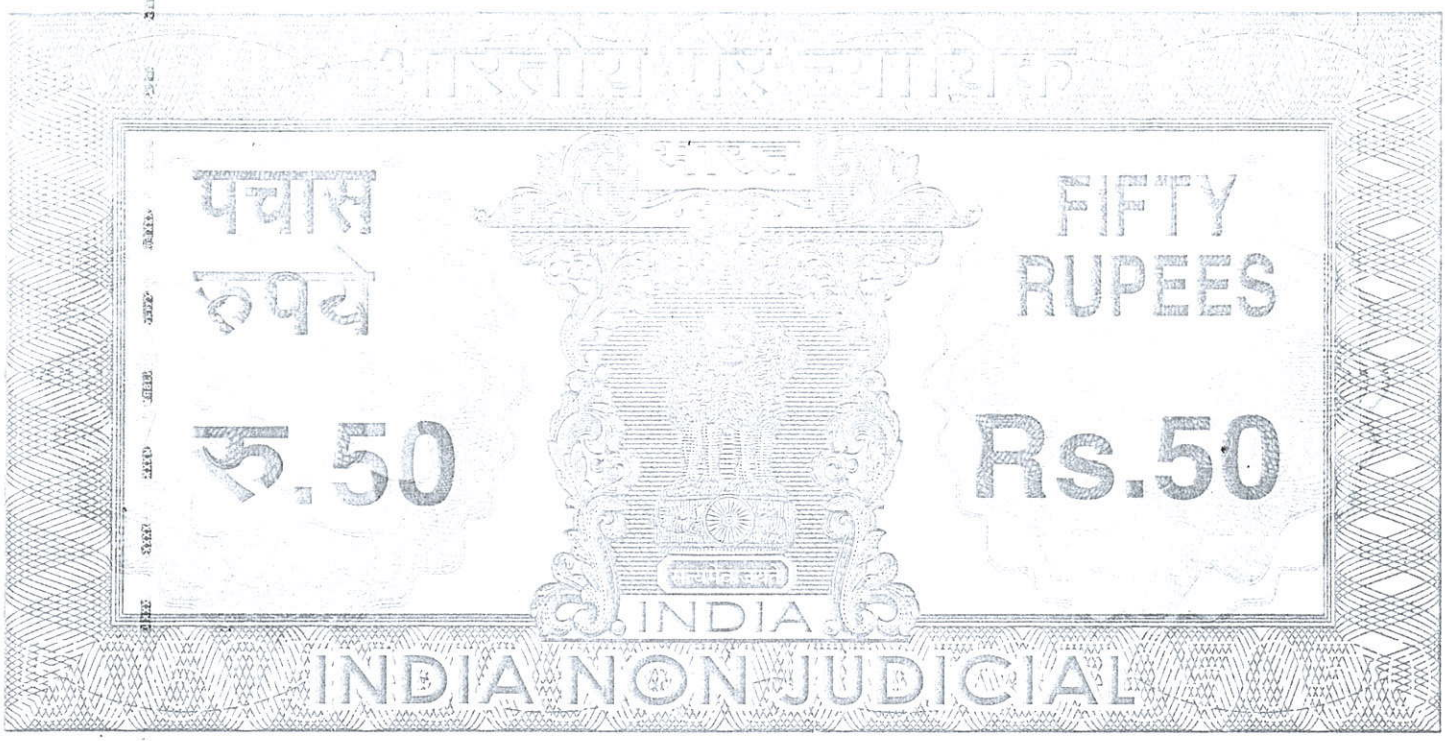
Memo No. 2254/WE /Dt. 29.8.23

Copy along with the certified copy of agreement submitted to the Regional Officer, Odisha State Pollution Control Board, Hakimpada, Angul for favour of kind information and necessary action.

Encl: As above

29/8/23
Superintending Engineer
Rengali Right Canal Division No II

Agmt. No. 4 (IW) of 2023-24



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" FORM 'K'

[See rule 23-A (2) (e) & rule 26]

AGREEMENT FOR SUPPLY OF WATER FOR THE PURPOSE OF INDUSTRIAL/COMMERCIAL USE

THIS AGREEMENT IS made on the 29th day of August Two thousand Twenty Three BETWEEN Sri Mohit Das, S/O Sri Fani Bhusan Das resident At-Basuaghai, Tankapani Road, Badagarh Brit Colony, Bhubaneswar, District- Khurda, State- Odisha, by profession Chief Corporate Services, the authorized representative of Tata Steel Limited, Meramandali, Dhenkanal, Odisha having its plant at Meramandali, Dist; Dhenkanal, the authorized representative (hereinafter called the "Applicant") of the first part AND (I) Sri Nrusingha Charan Mahapatra,, Son of Late Bipra Charan Mahapatra, Resident of House No-A301, Royal Enclave, Sailashree Vihar, Chandrasekharpur, Bhubaneswar,District-Khurda, State- Odisha by profession-Head(Corporate Relations Regulatory Compliance), Tata Steel Limited, Meramandali, Dhenkanal, Odisha having its plant at Meramandali, Dist; Dhenkanal, (2) Sri Siddhartha Sankar Pani, S/O- Sri Brajabandhu Pani, Resident of Plot No-A-6, Sahidnagar, Bhubaneswar, District-Khurda, State- Odisha by profession Head (Land Acquisition),Tata Steel Limited, Meramandali, Dhenkanal, Odisha having its plant at Meramandali, Dist; Dhenkanal (hereinafter referred to as the " Sureties") of the Second part AND Sri Nihar Ranjan Patra, Son of Pankaj Lochan Patra resident of village/PO- Balarampur, P.S- Sadar, District- Dhenkanal by profession Superintending Engineer, Rengali Right Canal Division No-II, Dhenkanal representing the Governor of Odisha which

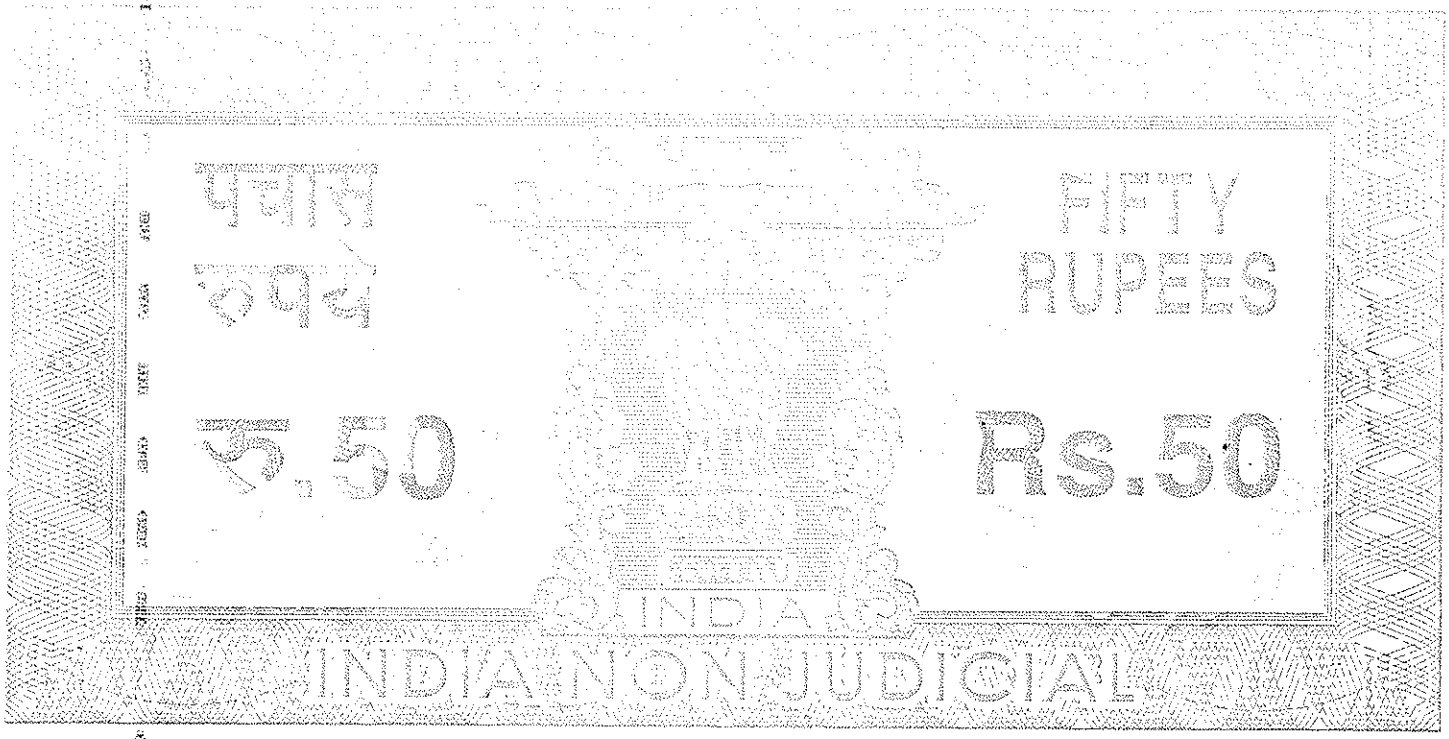
For Tata Steel Ltd.

Mohit Das
Chief, Corporate Services, TSML

CERTIFIED COPY

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal
29.08.23

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal



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expression unless repugnant to the context shall include his successors and assigns (hereinafter called "The Government") of the third part.;

WHEREAS, Tata Steel Limited has made an application for supply of water from Government water source /Irrigation works for the period as mentioned in the Schedule; here to annexed;

AND, WHEREAS, the sureties have agreed to stand surety for payment of rates charged for such supply in the manner hereinafter appearing and the Government has agreed to supply water for the purpose specified in the schedule annexed hereto —

SCHEDULE

Purpose for which water will be supplied	Volume of water, if any	Period of supply	The place at which it will be supplied
(1)	(2)	(3)	(4)
We envisage our requirement of water for the purpose of steel manufacturing and captive power plant.	46 Cusec or 112542.47 Cum/ day	Continuous as per availability from the sources (30.08.2023 to 29.08.2026) River Brahmani	To the plant site reservoir at Meramandali, Dist; Dhenkanal Latitude- 20.838 N Longitude-85.304 E

NOW THIS AGREEMENT witnesseth as follows: —

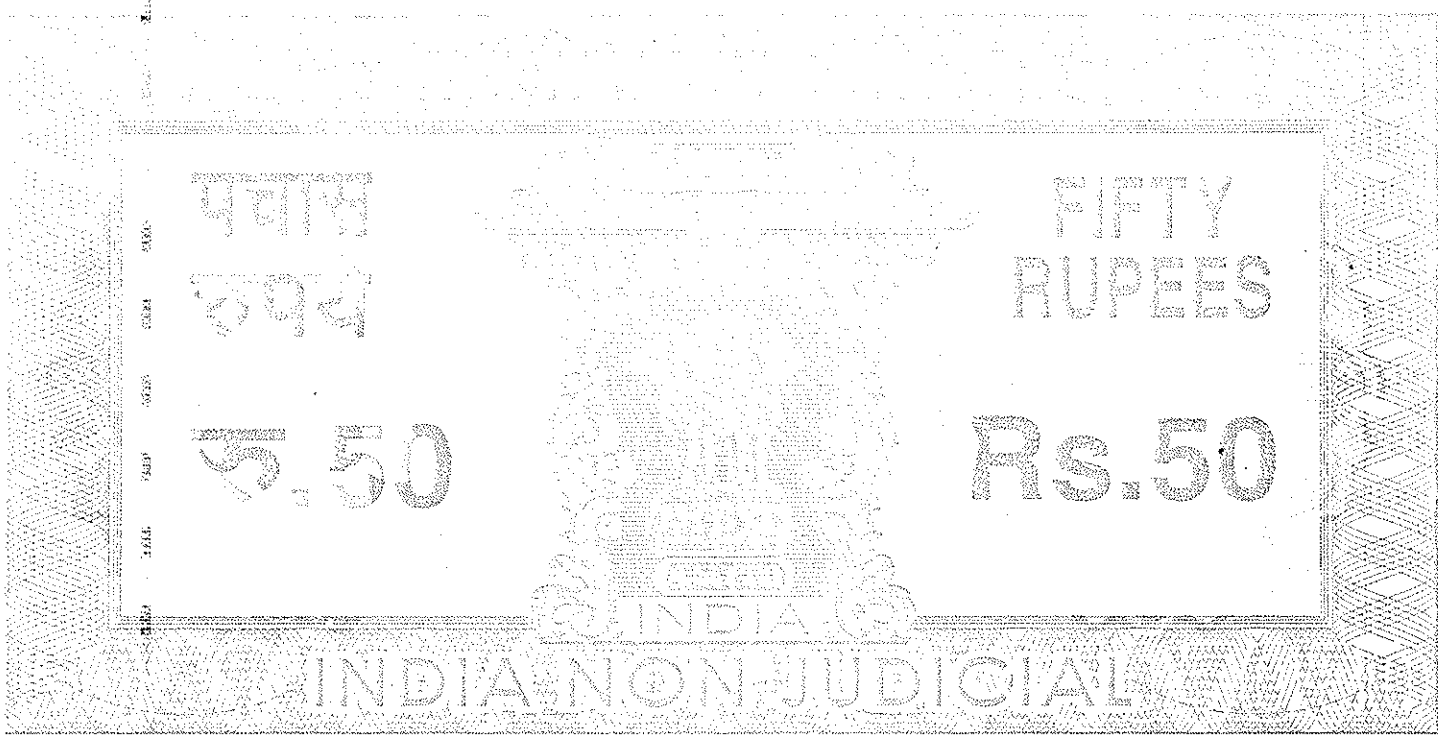
1. In pursuance of the said agreement and in consideration of supply of water to be

For Tata Steel Ltd.

Authorised Signatory

29/8/23

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal



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made to Tata Steel Limited, Tata Steel Limited and the sureties hereby jointly and severally covenant with the Government as follows : —

(a) Tata Steel Limited shall pay monthly water tax at the prevailing rate as applicable and at revised rates of water to be fixed by the Govt. of Odisha from time to time and 10% enhancement per annual in respect of water rate with effect from the first day of April as notified by Govt. of Odisha on or before the last date of the succeeding month as per the quantum of water allocated to them.

(b) Tata Steel Limited shall make suitable arrangement to take the water from the Government water source/ Irrigation works at which it will be supplied.

(c) Tata Steel Limited shall not use the water supplied to him for any purpose other than that which is specified in the said Schedule.

2. If the sum aforesaid or any part thereof, is not paid on or before the date specified in this agreement it shall become payable at once (unless the Government sanctions for special reason an extension of time) and Tata Steel Limited and the sureties shall be liable jointly and severally to pay the same with compound interest at the rate of two per cent *per mensem* from the date of default. All amount due to the Government under the terms of these presents shall if not paid in time, be recoverable as a public demand under the Orissa Public Demands Recovery Act, 1962 .

3. (i) Tata Steel Limited shall be liable for criminal and civil action if by drawal of water, the rights of any third party are affected and shall indemnify the Government against all

For Tata Steel Ltd.
Manik Das
Sr. Corporate Services, TSK

29/8/23
Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

claims for damage preferred by person or persons affected by the permission granted.

(ii) Tata Steel Limited shall not without prior permission in writing from the Government lay pipe line on Government or communal lands. If the pipe lines have to pass through Government lands permission of the Government for this shall be taken separately which may be granted subject to the protection of rights of Government or community, as the case may be.

(iii) Tata Steel Limited shall not draw or lift water more than the quantity mentioned in the requisition or order and not exceeding the volume mentioned in the Schedule except with the prior approval of the Government. The Superintending Engineer shall assess the fees to be charged as per Unit /quantity of water drawn or allocated whichever is higher. If drawal is more than the allocation, a penal rate at six times the rate specified in Schedule II and III shall be charged on the quantity of excess drawal, in addition to the normal bill on allocated quantity. The excess drawal is permissible for a maximum period of six months, within which, the licensee shall have to apply for a higher allocation of water with reasons and where the licensee fails to so apply for such higher allocation or where the licensee is refused for such higher allocation, the agreement shall be liable to cancellation and the water supplied shall be stopped thereafter.

(iv)The permission granted shall not be deemed to exempt the applicant from liability to payment of water charges lawfully assessable at the rate as may be prescribed by Government from time to time.

Tata Steel Ltd.

29/8/23
Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

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(v) Government reserves the right to suspend or cancel the permission in case of violation of any of the covenants.

4. Tata Steel Limited at his own cost shall install a Flow Meter or a suitable measuring device for measurement of water drawn or lifted by him from the Government water source/Irrigation works as per the procedure laid down in rule 23-A(b). The Superintending Engineer shall visit the location of drawal or lifting of water, verify the quantities of water drawn or lifted by Tata Steel Limited and ensure such control as may be necessary for administering the drawal or lifting of water. Assessment of water rate shall be made as per the quantity of water drawn or allocated whichever is higher. In case of any defect or non-functioning of the Flow Meter, the licencee shall bring the fact to the notice of the concerned Superintending Engineer forthwith and take appropriate steps to remove the defects in the Meter or for replacement thereof within a period of two months and in such cases the fees shall be charged on the quantity of water allocated for the said period of three months or till the defect in the Meter is removed or the Meter is replaced, as the case may be, whichever is earlier, and where the licencee fails to bring the defect or non-functioning of the Meter to the notice of the Superintending Engineer or fails to remove the defects in the Meter or to replace the same, as the case may be, within the stipulated period the agreement shall be liable to cancellation and thereafter the water supply shall be stopped.

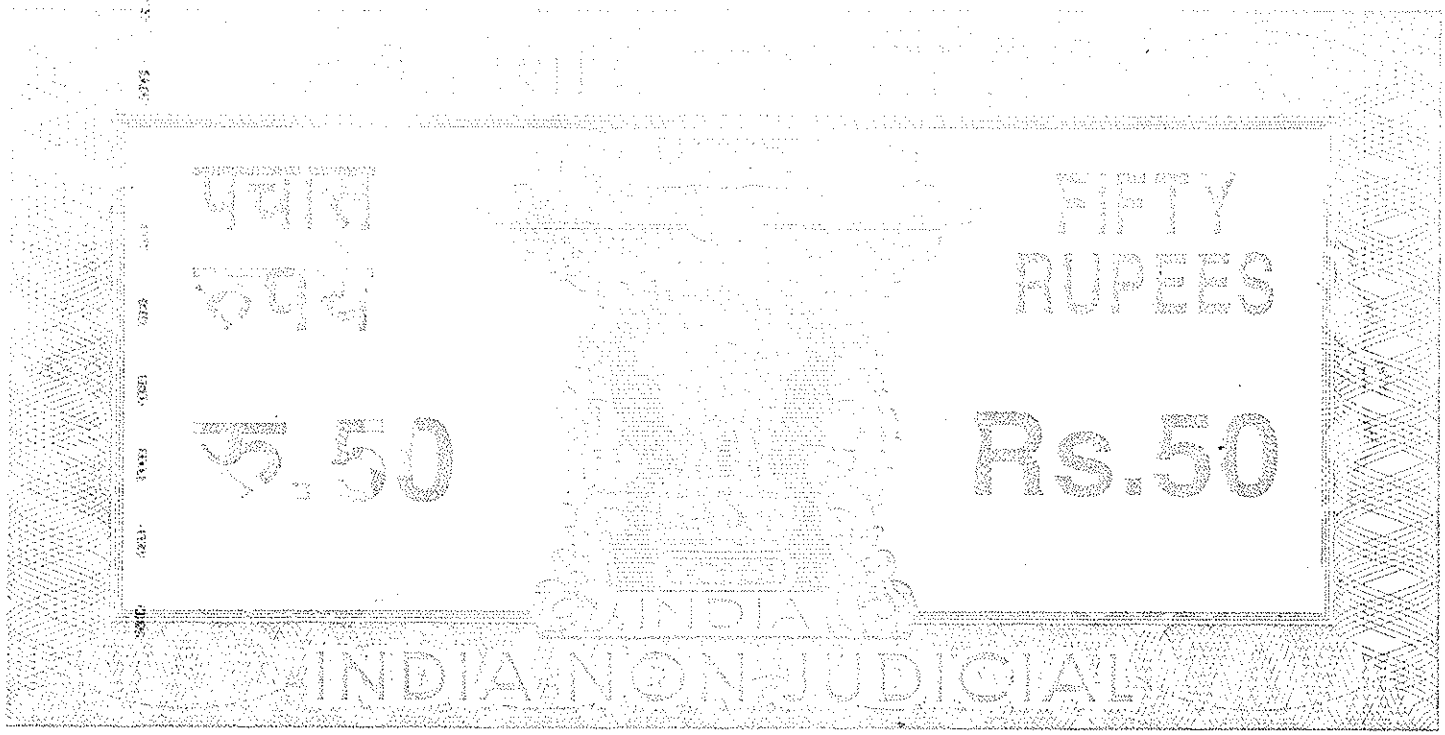
5. Tata Steel Limited shall construct full proof effluent discharge plant before commissioning of the project. For proper test of such effluent there shall be computerised testing system and

For Tata Steel Ltd.

Manager

29/8/23

Superintending Engineer
Rengali Right Canal Division No.-II
Manisapal, Dhenkanal



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Tata Steel Limited shall give details of effluent discharged in the natural source (in river and nala).

6. For construction of head works and control mechanism i.e. intake well, pump house and other related facilities, Tata Steel Limited will get the land leased in their favour through IDCO as is done in respect of any other government land required by the industry. IDCO will make available land on long term lease to Tata Steel Limited. 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.

7. Tata Steel Limited would be required to pay Rs 7,85,61,680.00 (Rupees seven crores eighty-five lakhs sixty-one thousand six hundred eighty only) 3(three) months advance water charges @ 7.65 per 1000 Ltr or One cum in shape of FDR in favour of Superintending Engineer concerned duly discharged by the company as non– interest bearing security deposit and for 9 (months) a Bank Guarantee amounting to Rs 23,56,85,040.00 (Rupees Twenty-three crores fifty-six lakhs eighty-five thousand forty only) duly pledged in favour of the Superintending Engineer, Rengali Right Canal Division No-II, Dhenkanal. Onus of maintaining the Bank Guarantee lies with the company.

8. In case of water supply for the Tata Steel Limited 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

Tata Steel Ltd.

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

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taking due clearance from IDCO. Water will be supplied to Tata Steel Limited by IDCO/SPV and they would also be liable for payment of water rate to the Government and will in turn have arrangements as similar therein as clauses (6) and (7) of this agreement.

9. Tata Steel Limited drawing the allocated water from the reservoir for its uses, shall sign supplementary agreement with the Odisha Hydro Power Corporation Limited, to compensate the loss of energy generation due to its drawal and the Odisha Hydro Power Corporation Limited, shall raise demands for compensation of loss of energy generation within first week of every month against the quantity of water drawn or allocated, whichever is higher.

10. 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.

11. The drawal mechanism for raw water and disposal system of effluent to be established by the industry without disturbing existing eco system and environmental set up.

12. The Rehabilitation and Resettlement Action Plan/ Welfare Action Plan, if so required will be prepared in conformity with the current Orissa Rehabilitation and Resettlement Policy and executed by the company at its own cost under the supervision of the Water Resources Department and the Collector of the District, Dhenkanal.

13. Tata Steel Limited shall 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 has to make adequate storage facility in their own land for supply of water to their plant during such

Tata Steel Ltd.

Superintending Engineer
Rengali Right Canal Division No.-II
Manisapat, Dhenkanal

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period.

14. The safety design of all the structures lies fully on the company.

15. In case of any dispute arising out of this agreement, the same shall be referred to Government and the decision of the Government in Water Resources Department shall be final.

16. Any surplus power from the Captive Power Plant shall be sold by Tata Steel Limited to GRIDCO or any other entity to be notified by the State Government under mutually acceptable terms and conditions.

17. The allocation of water will automatically lapse if Tata Steel Limited does not use the water for the purpose applied for within three years of allotment.

18. This agreement shall be valid for a period of 3 years subject to renewal of the same by the Superintending Engineer. For renewal of the agreement, Tata Steel Limited has to apply minimum three months before the expiry of the agreement.

19. If the industry is found to be drawing water unauthorisedly before signing the agreement / installation of flow-meter, the concerned Superintending Engineer, will charge a penal rate at six times the normal rate as provided in Schedule II and III.

20. Government shall be at liberty to review the water allocation unilaterally in case of exigencies.

21. The Superintending Engineer or his authorized representative reserves the right to inspect all installations of drawal and disposal mechanism during and after construction including

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

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intake structure, flow meter and treatment plant.

22. Tata Steel Limited will have to show clearly in water management plan 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 which shall be a part of the project report of the unit.

23. Tata Steel Limited 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 Government water source/Irrigation works 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.

24. The exact place for lifting will be decided in consultation with the authority of Water Resources Department.

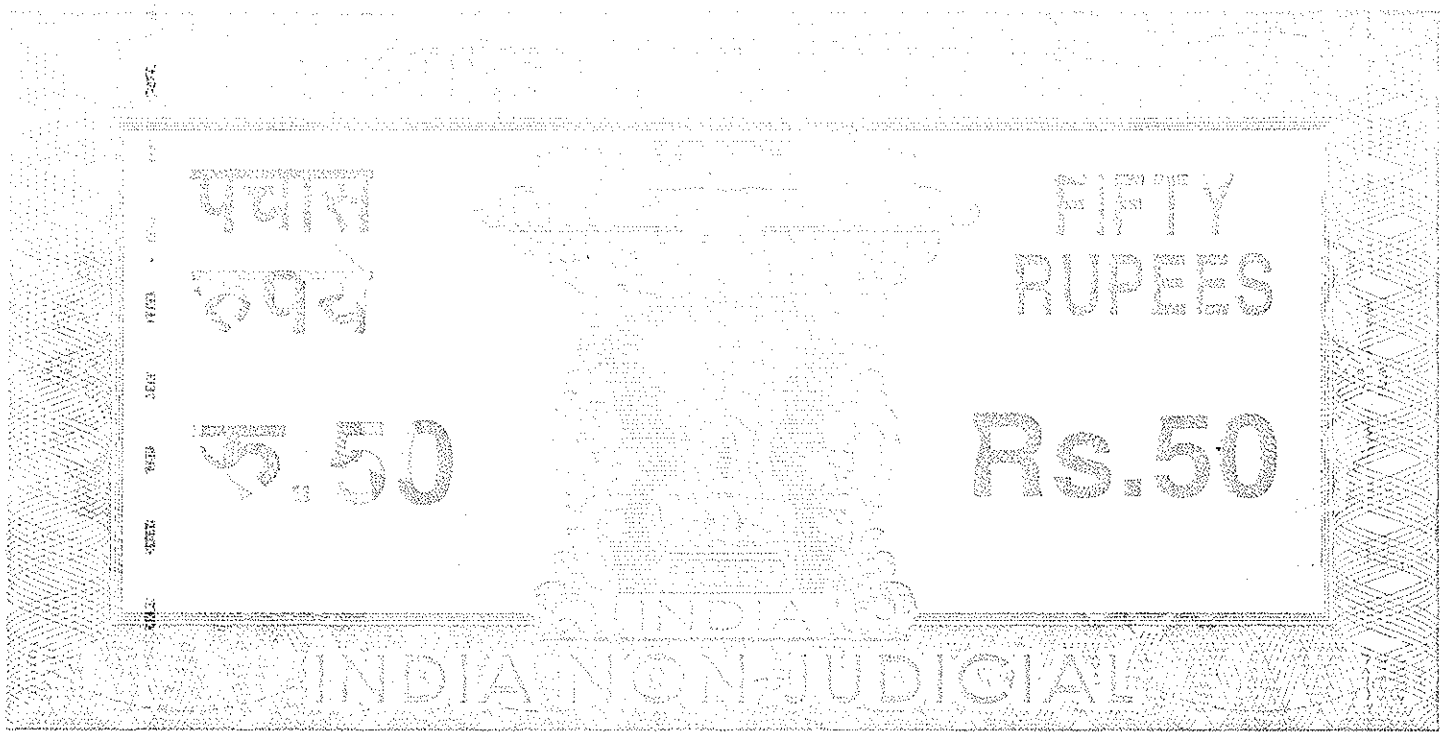
25. Department of Water Resources shall not be held responsible for non-availability of water due to dry season, disruption, repair and maintenance of canal/reservoir.

26. Agreement to be executed by the industry/commercial establishment with local authority/ Superintending Engineer must be approved by the Department of Water Resources before drawal of water.

27. The drawal of water will be in accordance with the provision of Orissa Irrigation Act, 1959 and Odisha Irrigation Rules, 1962 and amendments made from time to time.

Tata Steel Ltd.

Superintending Engineer
Rengali Right Canal Division No.-II
Chisapat, Dhenkanal



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28. Tata Steel Limited will execute an agreement with local authority of Water Resources Department in accordance with the Odisha Irrigation Rules.

29. Tata Steel Limited will treat any waste water generated to acceptable norms before disposal.

30 Tata Steel Limited shall pay contribution towards water conservation fund (WFC) complying with Gazette notification no. 1545 dt.07.11.2015 of DOWR.

In witness whereof the Parties hereto have put their hands and seals the day and year first above-written.

In the presence of witnesses :

1. Putam Kumar Swain

2. Basanta Kumar Behera

Signature of applicants

1. For Tata Steel Ltd.

Manik Das
Chief Corporate Services, TSL

In the presence of witnesses :

1. Putam Kumar Swain

2. Basanta Kumar Behera

Signature of sureties

1. N. C. Mahapatra, Head Corporate Relations & R.P.

2. Siddhartha Sankar Pani, Head Land Acquisition

29/8/23

Superintending Engineer
Sonajori Right Canal Division No.II
Mahisapat, Dhenkanal

In the presence of witnesses

1. Sreemadhu Nayak, AEE (Estt) 29.08.2023

2. Monalisa Nayak, A.E. 29.08.2023

SIGNATURE OF THE SUPERINTENDING ENGINEER acting in the premises for and on behalf of the Governor of Orissa" .

No. : DNK23B1107
Date: 06-Jun-2023

GOVERNMENT OF ODISHA

CERTIFICATE OF VERIFICATION

(See Rule 16 (3) Schedule – VIII of the Odisha Legal Metrology (Enforcement) Rules, 2011)

Office of the Legal Metrology Officer **DHENKANAL**, Camp/Place **NARENDERPUR,MERAMANDALI,DHENKANAL**

Name of Legal Metrology Officer **Sri. Cholaganga Dev Kisan** No. **OR-367**

I here by certify that I have this day verified and **STAMPED** the under mentioned weights, measures, etc., belonging to **TATA STEEL LIMITED (TSM,Meramandali)** Locality **at village- Narenderpur, P.O-Meramandali, Dist.- Dhenkanal(Odisha)**, Name of the trade **Manufacturing Industry**

Quantity	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Flow meter with totalizer, Capacity (Max) : 166666.7 liter/min Due on 08-Jun-2023 , Make : Endress Hauser , Model No. : PROSONIC FLOW 91 , SL No. : P10AE220000 Addl Fee R17(2) : Rs.0.00, Addl Fee R17(3) : Rs.0.00			5500.00	500.00
VERIFIED AND STAMPED.NO.OF SEAL-1.					

[In the case of rejected weights, measures, etc. the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reasons of rejection against each item]

Total Rs. **6000.00** deposited vide T. Receipt / Money Receipt No. **35ABDF58A9** dated **2023-05-16**

Repaired by / Used by **PANCHAMUKHI,SANJAY SAHOO** (Signature)

NEXT VERIFICATION DUE ON **06-Jun-2024**

For Tata Steel Ltd.
Sumit Das
Chief, Corporate Services, TSM

29/8/23
Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

Document certified by CHOLAGANGA DEV KISAN <talcherlmunit@gmail.com>.
Digitally signed by CHOLAGANGA DEV KISAN
Date: 2023.06.06 21:46:52 IST

Legal Metrology Officer , DHENKANAL

Note:1.The Certificate is to be exhibited in a conspicuous place in the related premises as per Rule 24
2.If the weight or measure is repaired or reinstalled, these shall not be put into use unless it has been duly re-verified and stamped, notwithstanding that periodical re-verification of such weight or measure has not become due as per Rule 20.

STATE POLLUTION CONTROL BOARD, ODISHA

(DEPT., OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVT OF ODISHA)
A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012
Phone-2561909/ EPABX : 2561909/2562847
E-mail: paribesh1@ospcboard.org / Website: www.ospcboard.org

No. 4463 / IND-I-CON-5440 Dt. 23.03.2023

CONSENT ORDER

Sub: Consent for Existing / New operation of the plant under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

Ref : Your online application ID No. 4564752 dtd. 29.12.2022

This consent order is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed there under to

Name of the Industry: **M/s. Tata Steel Limited,**

Name of the Occupier & Designation; **Sri Subodh Pandey, VP (Operation)**

Address: At-Narendrapur, Po– Kusupanga, Via – Meramandali, Dist:Dhenkanal - 759121

This consent order is valid for the period from **01.04.2023 to 31.03.2025**

*** After receipt of certificate on No Increase in Pollution Load vide letter No. 886, dtd. 20.01.2022 & grant of Consent to Establish vide letter No. 2204, dt.15.02.2023 Consent to operate for trial operation of Laddle Refining Furnace from 3 x 180 T/Heat to 3 x 190 T/H by enhancement of carrying capacity for a period of six months from 01.04.2023 to 30.09.2023**

This consent order is valid for the product quantity, specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

Further, this consent is being granted without prejudice to the legal cases No. 2(C)CC-46/2013 (Water) and No. 2(C)CC-47/2013 (Air) filed in the court of SDJM, Dhenkanal by this Board.

This consent is granted subject to the general and special conditions stipulated therein

A. Details of Products Manufactured

Sl.No.	Product	Quantity
1.	Sponge Iron (Kiln-I,II,III, IV, V, VI, VII, VIII, IX & X) (10×500 TPD)	1.5 Million Ton/Annum
2.	Captive Power Plant (CPP) (1) 142 MW with 4 Tourbogenerators (77 MW + 33MW + 20 MW + 12 MW) (2) 175 MW with 1 Tourbogenerator	a) 77 MW & 33 MW (through WHRB + 120 TPH AFBC) b) 20 MW & 12 MW (through 3x75 TPH AFBC) c) 165 MW **(Using steam from 1×60 TPH, 1×125 TPH , 250 TPH gas fired boilers, 94.5 TPH CDQ-2 and surplus steam (i.e.280 TPH) from 2×275 TPH coal fired boiler)**

For Tata Steel Ltd.
Mohit Das
Chief, Corporate Services, TSL

23/3/23
Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

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3.	Sinter Plant -I	1×177m^2
4.	Sinter Plant –II & III	2×204m^2
5.	Blast Furnace –I (1×1681m^3) & Blast Furnace-II (3814 m^3)	5.0 Million Ton/Annum
6.	CFBC Boilers of BF-II	2×275 TPH
7.	Steel Melting Shop (SMS)-I & II & Casting Unit i) Electric Arc Furnace ii) Ladle Refining Furnace iii) CONARC iv) VD/VOD v) RH-OB vi) HMDS	 6×15T/H 1×60T/H 1×60T/H, 1×15 T/H and 2×190 T/H(*) 1×180T/H 1× 60T/H 1×180T/H 2 numbers
8.	SMS-III i) BOF ii) ARS iii) LRF iv) CAS-OB v) HMDS	 2×180 T/H 2×180 T/H 1×190 T/H (*) 1×180 T/H 2 numbers
9.	Continuous Casting Plant (CCP) i) Slab Caster ii) Billet Caster	 2x1 strand and 2x1 strand 1x2 strand and 1x3 strand
10.	Hot Strip Mill including 3rd Reheating Furnace (330 tonne along with additional edger/ roughing mill stand/ Finishing mill, Laminar cooling system, Hot Strips and down coiler to increase Hot Strips	4.992 MTPA
11.	Lime & Dolo Plants	4×300 TPD & 1x600 TPD
12.	Oxygen Plant -I (3 units)	1x150TPD+1x340 TPD+1x405 TPD
13.	Oxygen Plant -II (2 units)	1×1200 TPD, 1×1120 TPD
14.	Coke Oven Plant -I (Recovery Type)	0.85 MTPA
15.	Coke oven Plant –II (Recovery Type)	1.25 MTPA
16.	Coal Washery	2.4 MTPA
17.	Cold Rolling Mill Complex	
	i) Cold rolled steel products	0.35 MTPA
	ii) Galvanized steel products	0.225 MTPA
	iii) Colour coated steel products	0.15 MTPA
	iv) Hot rolled, pickled and oiled products	0.1 MTPA
	v) Galvanized Steel Products (3rd Non-Ox Galvanizing Unit of CRM Complex)	1,25,000 Metric Ton/ Annum
18.	Metal Recovery Plant	1x300 TPH capacity Metal Recovery Plant for recovery of metal from LD Slag (5000 TPD).
19.	Slag Processing Unit (Air Cooled BF Slag)	876000 TPA
20.	Iron Ore Crushing Plant	300 TPH

21.	Iron Ore Screening Plant	500 TPH
22.	Processed Solid Waste Handling Screening Plant	150 TPH
23.	Lime & Dolo Fines Briquetting Plant	2 x 50 TPD
24.	DRI Fines Briquetting Plant	1 x 50 TPD
25.	Coal Screening Plant	250 TPH
26.	DG Set	1010 KVA
27.	Fly Ash will be supplied for Cement Plant, Fly ash brick manufacturing plant (outside and internal brick making and paver making), reclamation of Berhampur (Hindol) Stone Quarry of 6.63 Ac, Develpoment of Parjang Railway Siding 1,12,500 Tons and for supply to NH construction 19 Lakh Tons	

B. Discharge permitted through the following outlet subject to the standard

Outlet No.	Description of outlet	Point of discharge	Quantity of discharge	Prescribed standard							
				pH	SS (mg/l)	COD (mg/l)	BOD (mg/l)	O&G (mg/l)	Fe (mg/l)	Phenol (mg/l)	Cyanide (mg/l)
1.	Domestic effluent of the township and plant premises treated in STPs	No discharge for any STPs is permitted. The treated water shall be used for plantation purpose	No discharge	--	--	---	--	--	--	--	--
2.	Cooling water from all furnaces, BF-I, BF-II, SMS-I, II & III area, CPP, Scrubbed effluent from BF-I BF-II, SMS-I, II & III.	To be completely recycled	--	6.5-8.5	100	250	--	10	3.0	--	--
3.	Treated surface water drain outlet near Farm House (Outlet No.1) outlet of ETP-I	Kisinda Nallah after utilizing to the maximum extent (only in monsoon period)	--	6.5-8.5	100	250	--	10	3.0	--	--
4.	Treated wastewater from BOD plant of coke oven-I and coke oven –II	Completely reuse in coke quenching in Coke Oven –I & coke oven-II	No discharge	6.5 to 8.5	100	250	30	10	--	1.0	0.2
5.	Treated surface runoff from Coke Oven – I area and coke oven –II area	Lingara Nallah after utilizing to the maximum extent (only in monsoon period)	---	6.5-8.5	100	250	30	10	3.0	1.0	0.2
6.	Runoff from coal chemical area of coke oven-I and II	To be collected, treated & put into BOD plant without making any discharge.	No discharge	--	--	--	--	--	--	--	--
7.	Surface runoff from	To be treated in		--	--	--	--	--	--	--	--

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	expansion project area	localized settling tanks & other water shall be reused.	No discharge								
8.	Effluent from acid regeneration plant, pickling line, galvanizing line of CRM and other process units.	Recovery of Acid followed by treatment and reuse		--	--	--	--	--	--	--	--
9.	Effluent from rinsing, alkali concentrated water & chromium wastewater from galvanizing of CRM (3rd Non-Ox Galvanizing Unit of CRM Complex)	Treatment and reuse	No discharge	--	--	--	--	--	--	--	--

C. Emission permitted through the following stack subject to the prescribed standard

Chimney / Stack No.	Description of Stack	Stack height (m)	Quantity of emission (Nm^3/hr)	Prescribed Standard	
				PM(in mg/Nm^3)	CO (Vol./Vol.)
1.	**DRI Kilns**				
	Stack attached to				
	(i) De-dusting ESP of Kiln –I&II	45	300000	100	1%
	(ii) De-dusting ESP of Kiln -III &IV	45	300000	100	
	(iii) De-dusting ESP of Kiln-V & VI	45	350000	100	
	(iv) De-dusting ESP of Kiln – VII & VIII	45	350000	100	
	(v) De-dusting ESP of Kiln – IX & X	45	350000	100	
	(vi) DE attached to transfer tower T 30	30	15000	100	
	(vii) DE attached to final storage bunker T 30 A	30	59200	100	
	(viii) DE attached to Briquetting Plant of DRI	36	95500	100	
2.	**RMHS & RMPP**				
	(i) Iron Ore primary Screen	20	48,000	100	
	(ii) Iron Ore Secondary Crusher	20	5,000	100	
	(iii) Iron Ore Tertiary Crusher	20	7500	100	
	(iv) Iron Ore Secondary & Tertiary Screen	20	40,000	100	
	(v) Iron Ore Screening Bunker	20	48,000	100	
	(vi) Coal Screen Building I	32	70,000	100	
	(vii) Coal Screen Building II	36	93,400	100	
3.	**Blast Furnace Complex -I**				
	Stack attached to				
	(i) Bag filter of Cast house	45	740000	100	
	(ii) Bag filter of stock house	45	418000	100	
	(iii) Bag filter of PCI	72	120000	100	
	(iv) ESP of BF Power Plant Boiler-1	86	140000	50	
	(v) ESP of BF Power Plant Boiler-2	86	140000	50	
	(vi) ESP of BF Power Plant Boiler-3	86	140000	50	
4.	**Blast Furnace Complex –II**				
	(i) Bag filter attached to cast house	40	855000	50	
	(ii) Bag filter attached to stock house	30	540000	50	
	(iii) Bag filter attached to PCI - I	63	157000	50	
	(iv) Bag filter attached to PCI - II	53	108000	50	
	(v) ESPs CFBC Boiler -1 & 2	185	276120	PM: 50	SO2: 600 / NOx: 450 / Hg: 0.03

5.	**Sinter Plant- I** Stack attached to (i) ESP of Sinter Machine of Sinter Plant -I (ii) ESP of Sinter Cooler of Sinter Plant -I (iii) Bag filter of Screen & Storage Building of Sinter Plant -I (iv) Bag filter of dosing house and crusher of Sinter plant -I	 120 30 30 35	 1020000 300000 400000 720000	 100 100 100 100			
6.	**Sinter plant –II** Stack attached to 1. Process ESP 2. De-dusting ESP	 80 80	 1187309 433168	 50 50			
7.	**Sinter Plant –III** Stack attached to 1. Process ESP 2. De-Dusting ESP	 80 80	 1187309 433168	 50 50			
8.	**SMS Area- I & II** Stack Attached to (i) Bag filter of SMS-I Electric Arc furnace (iii) Bag filter SMS-II , FES-I (iii) Bag filter SMS-II, FES-II	 36.5 65 65	 250000 1678000 1678000	 100 100 100			
9.	**SMS-III** (i) Bag filter attached to BOF (ii) Ventury Scrubber (iii) Bag filter attached to JHT 44 (v) Bag filter attached to JHT 44 A	 80 -- 30 30	 2194000 -- 63250 46500	 50 -- 50 50			
10.	**Power Plant** – Stack attached to (i) ESP of AFBC (33 MW)	86	194000	**PM** 50	**SO2** 600	**NOx** 300	**Hg** 0.03
11.	**Stack attached to gas fired Boiler (250 TPH)**	40	1899072	50	--	--	--
12.	**Power Plant** Stack attached to (i) ESP of WHRB of Kiln –I (ii) ESP of WHRB of Kiln –II (iii) ESP of WHRB of Kiln -III (iv) ESP of WHRB of Kiln –IV (v) ESP of WHRB of Kiln –V (vi) ESP of WHRB of Kiln –VI (vii) ESP of WHRB of Kiln –VII (viii) ESP of WHRB of Kiln -VIII (ix) ESP of WHRB of Kiln – IX (x) ESP of WHRB of Kiln –X (xi) 60 TPH Gas fired boiler & 125 TPH Gas fired Boiler	 76 76 76 76 76 76 76 76 76 76 70	 120000 120000 120000 120000 208000 208000 208000 208000 208000 208000 368640	 50 50 50 50 50 50 50 50 50 50 50			
13.	**Lime Plant- I & Lime & Dolo Plants** Stack attached to (i) Bag fitler attached to Kiln No.2 (300 TPD) (ii) Bag fitler attached to Kiln No.3 (300 TPD) (iii) Bag fitler attached to Kiln No.4 (300 TPD) (iv) Bag fitler attached to Kiln No.5 (300 TPD) (v) Bag fitler attached to Kiln No.6 (600 TPD) (vi) Dedusting Bag filter of Raw material Handling (vii) Dedusting Bag filter of Product Handling (viii) Dedusting Bag filter of Product Storage Building	 57 57 57 57 57 30 35 35	 65000 65000 65000 65000 100000 25000 120000 103400	 50 50 50 50 50 50 50 50			

14.	**Coke Oven-I**			
	Stack attached to			
	(i) Coke Oven Plant (Battery –1)	120	100000	50
	(ii) Coke Oven Plant (Battery –2)	120	100000	50
	(iii) Bag Filter of Coal Charging	30	120000	50
	(iv) Bag Filter of Coke Pushing	30	220000	50
	(v) Coke Screening Building – CO	30	16000	50
	(vi) Coke Preparation and Crushing	30	110000	50
	(vii) Coke Secondary Crusher	30	31554	50
15.	**Coke Oven-II**			
	Stack attached to			
	Coke Oven –II having 77 ovens.	120	150000	50
	De-dusting attached to CDQ-2	50	159300	50
16.	**Stacks attached to bag filters of**			
i)	Coal blending building	30	7600	50
ii)	Coal crushing building	30	1,45,000	50
iii)	02 J T Junction house	30	15,500	50
iv)	02 J T A junction house	30	30,500	50
v)	02 JT 01 and coke treatment building junction room	30	1,62,000	50
vi)	25 JT 11/41 building	30	48,500	50
vii)	25 JT 13 & 25 J T 15 junction house	30	34,000	50
viii)	25 JT 13 & 25 J T 43 junction house	30	26,500	50
ix)	EC J 3 junction house	30	13,500	50
x)	25 JT 42 Nut coke building EC J1 & EC J2	30	1,10,000	50
17.	**Hot Strip Mill**			
	Stack attached to			
	(i) Reheating furnace –I & II	70	300000	50
	(ii) Reheating furnace –III	70	300000	50
18.	**CRM Complex**			
i)	ARP	40	15000	--
ii)	Pickling	27	25000	--
iii)	Boiler	30	12970	--
iv)	GP-I	32	20000	--
v)	GP-I	32	20000	--
vi)	GP-I	32	17000	--
vii)	GP-I	32	10000	--
viii)	ECL	30	21600	--
ix)	MILL-1,2 and 3	28	200000	--
x)	Skin pass mill	24	28000	--
xi)	Kathabar Line	24	6000	--
xii)	Kathabar Line	24	6000	--
xiii)	Colour Coating	25	100000	--
xiv)	Colour Coating	25	20000	--
19.	**CRM Complex (GP-III)**			--
i)	De-Greasing Section	27	6700	--
20.	**Furnace (Galvanizing)**	27	6700	--
21.	**Stack attached to BF gas and coke oven gas fired reheating furnace**	110	--	50

D. Disposal of solid waste permitted in the following manner

Sl.No.	Type of Solid waste	Quantity generated (TPA)	Quantity to be reused on site(TPA)	Quantity to be reused off site(TPA)	Quantity disposed off (TPA)	Description of disposal site
1.	**Blast Furnace –I & II**					
	(i) Granulated Slag	20,00,000	----	----	----	Reused in cement plant
	(ii) Dry pit slag	46,394				Reused for road making and filling of low laying areas
	(iii) Dust from GCP	87,548				
	(iv) Flue Dust	50,000				Reused in Sinter Plant Reused in Sinter Plant
2.	**SMS-I , II & III**					
	(i) Slag	9,00,000	---	----	----	After recovery of metal in metal recovery plant, partly used in Sinter plant and balance used for filling low lying areas & soling of plant roads
	(ii) Mill Scale	11,650				Reused in Sinter plant
	(iii) Mill Scale from HSM	86,052				
3.	Dust from APC devices (ESP, Bag Filter dust of DRI, Lime Plant & FES)	5,00,000	----	----	----	Reused in Sinter plant
4.	**Sinter Plant-I, II & III**					
	Sinter Dust from ESP	59,558	----	----	----	Reused in Sinter plant
5.	**DRI Section**					
	(i) Char	1,90,000				Used in CPP partly and sold to outside party
	(ii) Wet Scrapper sludge	13912	----	----	---	
	(iii) Cold ESP Dust	51521				
6.	**Coke Oven-I & II**					
	(i) Coke Breeze	314000				Used in Sinter Plant
	(ii) Tarry Sludge	4000	----	----	----	Used in Coke Oven Process
	(iii) BOD plant sludge	4000				Used in Coke Oven Process
7.	**DRI-WHRB & AFBC**					
	(i) Ash	455827	----	----	----	
8.	**CFBC Boilers No. I & II of BF- II**					As stipulated in Table 'A' Sl. No. 27
	(i) Fly Ash	15,00,000				

E. GENERAL CONDITIONS FOR ALL UNITS

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for

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the purpose of the Acts.

2. The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. . In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during their visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been taped by the consumer for utilization for any purposes whatsoever.
12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
    a) Industrial cooling, spraying in mine pits or boiler feed,
    b) Domestic purpose
    c) Process
13. The applicant shall display suitable caution board at the face where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
21. The sludge generated from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank of treatment plant.
22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack

monitoring / inspection.

25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
27. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner to the meet the prescribed standards by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
28. The stack and ambient monitoring system installed by the applicant shall be opened for inspection to this Board at any time.
29. There shall not be any fugitive or episodal discharge from the premises.
30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
31. The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post within 24 hours of its occurence.
33. The industry has to ensure that minimum three varieties of indigenous species of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive emission, dust problems through leaching etc., of any kind.
35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
    i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
    ii) Controlled incineration, wherever possible in case of combustible organic material.
    iii) Composting, in case of bio-degradable material.
36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40 Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
42. The industry shall comply to all the conditions stipulated under Charter on Corporate Responsibility for Environmental Protection (CREP) guidelines in a time bound manner as envisaged there in. (if applicable)
43. The industry shall comply to the conditions stipulated in CTE order issued by ODISHA State Pollution Control Board.
44. The industry shall abide by E(P) Act, 1986 and Rules framed there-under
45. In case the consent fee is revised upward or the fees paid is found to be inadequate for any reason during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the adequate amount within the period stipulated by the Board the consent order will be revoked without prior notice.
46. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

1. The applicant shall analyze the effluent / emissions and Ambient Air Quality every month through approved laboratory for the parameters indicated in TABLE- 'B', 'C' & Part -'B' as mentioned in this order and shall furnish the report thereof to the Board on monthly basis.

P.T.O

2. The following information shall be forwarded to the Member Secretary on or before 10th of every month.
   a) Performance / progress of the treatment plant.
   b) Monthly statement of daily discharge of domestic and/or trade effluent.
3. Non-compliance with effluent limitations

a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
   i) Causes of non-compliance
   ii) A description of the non-compliance discharge including its impact on the receiving waters.
   iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
   iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
   v) Steps to be taken by the applicant too prevent the condition of non-compliance.

b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.

4. Proper housekeeping shall be maintained inside the factory premises including process areas by a dedicated team.
5. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.
6. The industry shall engage dedicated qualified manpower to ensure continuous and effective operation of online stack / Ambient Air Quality / Effluent monitoring stations for maintenance of database, real time data transfer to SPCB server, data analysis and co-ordination with concerned personnel of process units for taking corrective measures in case of non-compliances and to respond to the instructions of SPCB in this matter.
7. All employees of the industry including officers, staff, workers, contract workers involved in operation/maintenance/ supervision of process area, pollution control areas, raw material and waste handling areas shall undergo short term training at least twice in a year in the field of pollution control and environment protection to create awareness and develop green skill. The report on the activities along with details and photographs shall be submitted to the Board on annual basis by end of June for previous financial year.
8. ISO auditing reports of the industry in the field of environment shall be submitted to the Board every year on annual basis.
9. The environmental cell shall be established and upgraded effectively to guide, monitor the pollution control and environmental protection activities inside the industries on day to day basis to ensure that the conditions stipulated in the consent to establish/operate order of the SPCB and conditions imposed in EC and provisions of various environmental acts and rules are complied with and the report returns, compliances are submitted to the Board in due time.
10. Adequate numbers of scientific / technical persons having qualification in environmental engineering/ environmental science from recognized institution/ university must be engaged or appointed along with other interdisciplinary qualified persons to effectively implement and monitor different areas of environment management and regulatory compliances including air pollution control, water pollution control, online monitoring, real time data transmission, management of solid waste, hazardous waste, E-waste, plastic waste etc. The Head of the environmental cell should be a senior level official, who will directly report to the plant head to ensure that environmental management is performed effectively to ensure compliance to the environmental

norms on priority basis.

11. Energy consumption data of different pollution control devices like ESP/ Bag filter/ Scrubber/ Cyclone/ Gas cleaning plant/ Fume treatment plant/ ETP/STP/Flow meters (treated effluent recycling) shall be collected online on real time basis adopting IOT and shall be displayed in a dashboard in the control room of the plant with facility for data storage facility and generate monthly report for reference. The energy management of pollution control devices should be practiced for self-monitoring and record the progressive achievements to minimize energy consumption in order to reduce greenhouse gas emission.
12. The post EIA monitoring schedule should be strictly followed for different parameters around the plant for the units is covered under EIA notification. The industry shall also conduct noise level study in the core zone and buffer zone of the industry and submit 6 monthly report to the Board.

F. SPECIAL CONDITIONS:

AIR POLLUTION CONTROL

1. **The industry shall comply the conditions stipulated in CTE order issued vide letter No. 11861 dtd.7.7.2022 and certificate on No Increase in Pollution load issued vide letter No. 246 dtd.04.01.2022 for production of Hot Metal 5.0 MTPA in Blast Furnace –I & II.**
2. The unit shall enhance the production of hot metal in Blast furnace –I & II within existing premises without any additional plant facilities with condition to reduce DRI production 2.38 MTPA to 1.5 MTPA, Power production from 256 MW to 165 MW with change of fuel from Coal to mix gas in 3x275 TPH coal fired boiler from CFBC to 1x250 TPH Gas fired Boiler keeping total Crude Steel Production of 5.6 MTPA.
3. The industry shall comply the conditions stipulated in CTE order Letter No. 2204, dtd. 15.02.2023 and certificate on No Increase in Pollution Load vide letter No. 886, dtd. 20.01.2022 for enhancement of capacity of Laddle Refining Furnace from 3 x 180 T/Heat to 3 x 190 T/H.
4. The unit shall achieve the increasing production capacity of Laddle Refining Furnace from 3 x 180 T/Heat to 3 x 190 T/H by enhancement of carrying capacity.
5. The 1×175 MW turbo-generator shall be operated with steam generated from the 60 TPH, 125 TPH & 250 TPH Gas Fired Boilers, 94.5 TPH CDQ-2 and surplus steam from 2×275 TPH boilers of Blast Furnace-2 only. Surplus steam from any other sources available inside the plant premises shall not be used without obtaining prior consent to operate from the Board.
6. The particulate matter emission from the coke oven gas and BF gas fired reheating furnace of Hot Rolling Mill shall comply to the norms of 50mg/Nm^3.
7. All the air pollution control devices like ESPs / GCPs / Bag filters installed at various process units and their raw material feeding and product handling sections shall be maintained, operated efficiently and continuously so that particulate matter emission from the stack shall meet the prescribed standard of the Board as indicated in 'Table-C'. The industry shall ensure continuous and effective operation of all the APC devices through preventive maintenance.

8. All the potential fugitive dust generating areas of all the process units shall be covered with the adequate suction points. Fume generated from the induction furnaces, ladle furnaces, and other process units of SMS-I & II and SMS-III shall be collected through adequately designed swiveling hoods. The collected dust / fumes shall be treated in the GCPs / Bag filters/ Scrubbers.

9. Steps shall be taken for regular monitoring of Mercury (Hg) in the stack of boilers and submit data to the Board.

10. The raw material handling yards shall be provided with adequate water sprinkling facilities so as to prevent fugitive dust generation during raw material handling and vehicle movement. All the raw material processing units and their transfer points shall be provided with adequate network of dry fog nozzles. The dust suppression system shall be operated continuously and effectively to avoid dust nuisance in the area.

11. There shall be no leakage of flue gas through the emergency caps, slip rings or any other process areas of DRI kilns except during exigencies.

12. The unit shall provide low NO_x burners to reduce NO_x emission to keep the level within the prescribed standard by MoEF & CC vide Notification dtd. 07.12.2015.

13. There shall not be any leakages from flanges and pipes and gas conveying system of the Blast furnaces and such leakages if any shall be immediately attended.

14. Appropriate air pollution control devices shall be installed to collect and treat the secondary emissions from tapping area and casting areas of Blast furnaces.

15. Steps shall be taken for installation of Flue Gas Desulpurisation (FGD) system in future if required to keep the SO_2 level within 600mg/Nm^3 to confirm the MoEF & CC Notification dtd. 07.12.2015. This shall also include management and disposal of effluent / solid waste to be generated from FGD system.

16. All the online continuous stack emission monitoring systems (CEMS) for measurement of particulate matter and gaseous pollutants shall be operated effectively & uninterruptedly and real time monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.

17. All the online continuous ambient air quality monitoring stations (CAAQMS) shall be operated effectively & uninterruptedly and real time monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.

18. The industry shall strictly follow the guidelines of CPCB dated July, 2018 for Online Continuous Effluent Monitoring Systems (OCEMS) and Guidelines for continuous Emission Monitoring Systems dtd. August, 2018 for PM and other gaseous pollutants.

19. The unit shall provided adequate dust suppression measures like DFs / Mist Cannon/ sprinklers at potential dust generating points of metal recovery plant to control fugitive emission.

20. Fixed type / gun type sprinklers / mist cannon shall be provided at raw material handling area of metal recovery plant to control fugitive emission.
21. Gun type sprinklers shall be provided at LD slag storage yard to control fugitive emission.
22. The industry shall ensure tampered proof real time transmission of online monitoring data to the server of CPCB and SPCB and maintain the health of the analyzers and data connectivity through valid AMC
23. The Pneumatic Dust Handling system installed at the hoppers of all the ESPs and bag filters shall be operated continuously and effectively so that no fugitive dust nuisance is created.
24. Telescopic chute shall be installed at the bottom of hoppers/silo wherever applicable to prevent emission of fugitive dust during material transfer/unloading.
25. Adequate no. of carbon monoxide (CO) detectors shall be installed near Gas Cleaning Plant area of the blast furnaces and those shall be in operation all the time. Appropriate and adequate alarm provision shall also be made.
26. Adequate measures shall be taken to control acid fumes in the shop floor of pickling lines.
27. The wet scrubber installed at galvanized line before exhaust of alkali fume through stack shall be operated efficiently and continuously.
28. The unit shall use LPG/Coke Oven Gas as fuel in the Galvanizing Furnace.
29. The unit shall provide stack height of 30m in the DG set of 1010 KVA.
30. The acoustic enclosure / acoustic treatment of the room shall be desired for minimum 25dB(A) insertion loss or meeting the Ambient Noise Standards wherever in the higher side as notified under Env. (P) Act, 1986 and amendment thereafter.
31. The performance evaluation of ESP, bag filter, air pollution control devices, online CEMS, AAQMS & surveillance cameras shall conducted by reputed institute like NIT / IIT and annual report shall be submitted to the Board by end of Junefor the previous financial year.
32. The digital display board installed at the main gate shall be of minimum size of 6ft x 4ft as stipulated by CPCB with provision of display of real time data online analysers (CEMS, CAAQMS & CEQMS), so that the public can visualize the actual emission and the values of parameters displayed at the gate. Outdoor LED video screens should be preferred for digital display of environmental parameters, CTO and authorization conditions and awareness clippings on environment at the main gate, colony area and process area.
33. The installed HD IP camera shall be operated continuously so that video streaming shows in server of the Board on interruptedly.
34. Online analysers for measuring flow, temperature and velocity of flue gas shall be installed at the stacks and integrated with online CEMS data.
35. Online CO / Ammonia/ Chlorine and such other gas monitoring system shall be installed in every process area where such toxic gas are expected to be generated

and in the plant premises along with alarm system to avoid accidental hazards due to gas leakage.

36. Green belt shall be properly designed and developed with plantation of suitable local species and species prescribed by CPCB.

37. Material storage area of the plant, approach roads shall be covered with adequate sprinkling facility. The water sprinkling system shall be kept operational all the time to avoid any fugitive dust nuisance.

38. Dust suppression facilities by provision of adequate water sprinkling shall be made at the active dumping area and roads to prevent dust nuisance in the area.

39. The industry shall comply with all the stipulations contained in the Gazette Notification of Govt. of India vide No. 155, dtd. 31.03.2012 (copy enclosed). For emission standard, the details of 'Table-C' of this order is applicable.

40. The unit shall submit fly ash utilization status to the Board annually and shall comply to the provisions of revised fly ash Notification No. SO.254(E),dt. 25.01.2016 of MOEF, Govt. of India.

41. Accumulation of dust and other solid waste in the work zone and non-dumping areas inside the factory premises shall be avoided. The work zone shall be properly cleaned either manually or mechanically every day and the dust so collected shall be disposed off in the designated dump site.

42. The approach roads and all the internal roads shall be fully concreted / blacktopped. All the roads shall be cleaned periodically to avoid accumulation of dust.

43. D.G. sets should be acoustically enclosed with anti-vibration measures and equipped with A.M.F. (Auto Mains Failure Device) for auto changeover of power supply from grid to D.G. in the event of power failure. The AMF Panel should preferably be PLC (Programmable Logic Control) based. Dedicated D.G. sets of adequate capacity shall be installed to ensure adequate standby power supply to run all pollution control devices of the plant in the event of power failure.

44. The industry shall put up sign Boards at appropriate places with nomenclature of the stacks in consultation with Regional Officer of the Board. It shall install electronic display Board in front of main gate to display the monitoring data, prescribed standard for public information.

45. The ambient air quality shall confirm to the National Ambient Air Quality standard as per the notification of MoEF dated 16 Nov 2009 (Annexed).

WATER POLLUTION CONTROL

1. Specific water consumption shall be limited within 3.5m^3/MWh as per MoEF & CC vide Notification dtd. 07.12.2015.

2. Under no circumstances there shall be discharge of any effluent to outside the factory premises. Water used for cooling purposes shall be fully recycled. Water used in

various processes shall be suitably treated at source and recycled in those processes.

3. The wastewater generated from the Coke Oven- I & II and their respective coal chemical departments shall be adequately treated in the respective BOD plants with UV based cyanide treatment facilities and the treated effluent after confirming to the prescribed standard shall be utilized in coke quenching in coke oven-1, slag granulation in blast furnaces and dust suppression. Under no circumstances, there shall be any diversion of effluent from coke oven and byproduct plant into any other drains or discharge system.

4. Wastewater generated from the pickling lines Cold Rolling Mill shall be treated in adequately designed ETP and the treated water shall be reused. Care shall be taken to avoid spillage of the pickling acids.

5. The wastewater generated from direct cooling of Hot Strip Mill shall be passed through scale pit, settling tank and filters followed by cooling towers and shall be recycled in the process. The wastewater generated from the process of indirect cooling of hot strip mill shall be passed through cooling tower and completely recycled. The back wash of filters shall be treated in a thickener and overflow of thickener shall be reused. Underflow shall be taken to sludge holding tank, where sludge shall be separated and water shall be taken to inlet of thickener.

6. Online flow meter and IP Camera shall be installed at the outlet of ETP as per requirement of CPCB to transfer online data with the server of the SPCB and CPCB.

7. The effluent generated from rinsing, alkali concentrated water and chromium wastewater from galvanizing unit shall be treated in the existing ETP of CRM and the treated effluent shall be reused completely. In case the existing CRM ETP is found to be inadequate to treat the additional effluent generated from this new unit, then the industry shall install an adequately designed new ETP immediately so as to comply with the standard prescribed under E(P) Rules and Notification made thereunder.

8. Waste water generated from raw water treatment system and back wash of filtration plant shall be properly treated and taken to guard pond and reused.

9. Blow down from WHRB boiler / AFBC boilers and all the cooling towers shall meet the following standards before it is discharged to the common monitoring basin and shall be used for dust suppression;

   a. For boiler blow down: SS-100mg/l,O&G-20mg/l,Cu(Total)-1.0mg/l,Fe(Total)-1.0mg/l

   b. For cooling tower blow down: Free available chlorine-0.5mg/l, Zn-1.0mg/l, Cr (Total)-2.0mg/l, Phosphate-5.0mg/l.

10. The domestic effluent generated from colony, office and canteen shall be treated in STP and shall meet the standards prescribed by MoEF & CC vide notification G.S.R 1265(E) dtd.13th October 2017 as follows; pH - 6.5-9.0, BOD - less than 30mg/l TSS - less than 100mg/l and Fecal Coliform (FC) MPN/100ml<100.

46. Online and continuous effluent monitoring system (CEQMS) shall be operated effectively & uninterruptedly and real time monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.

11. The runoff water from the whole factory premises including solid waste dumping area shall be collected through dedicated garland drains and shall be adequately treated in ETPs (3 nos.) so as to meet the prescribed standard of the Board before discharge to outside / reused. Under no circumstances any wastewater shall be discharged to Kisinda nallah and Lingara nallah during non-monsoon period.

12. The industry shall carry out monitoring of qualities of ground water ,surface water bodies (i.e. nalla, pond ,river)and conduct Ambient Air quality monitoring within 5 Km radius of the plant in up wind and down and directions and submit reports quarterly to the Board.

13. The industry shall operate mechanized wheel washing system along with effluent treatment and recycling facilities for the raw material / product /solid waste transport vehicles installed at power plant and RMHS area of the industry.

14. The performance evaluation of ETP, STP, online CEQMS & Web cameras, flow meter shall conducted by reputed institute like NIT / IIT and annual report shall be submitted to the Board by end of June for previous financial year.

15. Flow meter and level sensors with telemetry system should be installed in the bore wells as stipulated by Central Ground Water Authority/ Water Resources Department.

16. The industry shall conduct surface run off management study and develop rain water harvesting structures and surface runoff treatment systems inside the premises.

17. Dumping of solid waste shall be made at designated locations in a systematic manner with proper engineering applications by providing proper slope, angle, berms, height, toe wall, retaining wall and road network. The active dumping area shall be kept at minimum. The exhausted dump area shall be technically reclaimed by spreading a layer of soil with proper compaction and consolidation. Biological reclamation of the same shall be made by planting saplings of appropriate species. Adequate provision for watering of plants and protection of trees shall be made.

18. The industry shall have adequate space at point of time for waste disposal at least for a period of two years. Before using any new patch of land / site for solid waste dumping, the industry shall obtain prior consent to establish of the Board.

19. The unit shall strictly adhere to the provisions stipulated in the revised fly ash notification dtd. 25.01.2016.

20. Consent to operate is subject to availability of all other statutory clearances required under relevant Acts / Rules and fulfillment of required procedural formalities.

G) ADDITIONAL CONDITIONS:

1. The unit shall maintain the ETP of BOD Plant of Coke Oven-1 and common ETP-3 to maintain Cyanide and Fluoride concentration within prescribed standard.
2. The unit shall install additional HD IP Camera of 07 nos. within 01 month.
3. The unit shall install one more Effluent Treatment Plant (ETP) of capacity 390 m^3/Hr near LD sludge dump area to treat the runoff water generated from LD sludge dump area, SMS slag dump area and other mixed water generated from dump area during monsoon season by March, 2024.
4. The unit shall install additional bag filter at coke dryer to control fugitive emission within 06 months.
5. The road connects between Coke Oven Plant-II and HDPE lined pond shall made concreted or blacktopped within 06 months.
6. The industry shall deploy 01 additional mechanical road sweeping machines besides existing sites for cleaning of internal roads within 06 months.
7. The industry shall install APC device at mixing house of Sinter Plant-1 within 06 months.
8. The unit shall expedite the installation of third DE system at Coke Oven-1 battery within 06 month.
9. Road connecting BFPP-2 and Coke Oven-1, back side of CRM near GP-3 (Galvanized Product), road at back side of Sinter-2 & 3, railway siding road, road at back side of Coke Oven-2 and other remaining roads shall be paved/concreted within 06 months.
10. Cleaning of internal drains of CRM Plant, DRI Plant, RMHS area and Sinter Plant area shall be carried out before monsoon.
11. The unit shall engage mechanical road sweeping machine and Industrial Vacuum Cleaner in RMHS/RMPP area, sinter plant -2 & 3 (back side), old MRP area to improve housekeeping there.

12. The unit shall complete the installation of DE system at Junction House – 34, 34A, 35 & 74 within 06 months.
13. The Industry shall complete the installation of metallic screen barrier at the RMHS area within 06 months.

The occupier must comply with the conditions stipulated in section A, B, C, D, E, F & G to keep this consent order valid.

To,

The VP (Operation),
M/s. Tata Steel BSL Limited,
At-Narendrapur, Po– Kusupanga,
Via – Meramandali,
Dhenkanal – 759121

Encl : ***As above***

MEMBER SECRETARY
STATE POLLUTION CONTROL BOARD, ODISHA

Memo No. 4464 /Dt. 23-03-2023

Copy forwarded to;

i) Regional Officer, State Pollution Control Board, Angul
ii) District Collector , Dhenkanal
iii) D.F.O, Dhenkanal
iv) Director of Mines, Odisha, Bhubaneswar
v) Director Factories & Boiler, Bhubaneswar
vi) Consent Register / HWM Cell, Bhubaneswar

22/3/23

CHIEF ENV. ENGINEER
STATE POLLUTION CONTROL BOARD, ODISHA

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS
PART-A:EFFLUENTS

Sl.No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Costal Areas
		(a)	(b)	(c)	(d)
1.	Colour & odour	Colourless/Odourless as far as practible	------	See 6 of Annex-1	See 6 of Annex-1
2.	Suspended Solids (mg/l)	100	600	200	For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.
3.	Particular size of SS	Shall pass 850	-----	------	
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	Shall not exceed 5^0C above the receiving water temperature	-------	--------	Shall not exceed 5^0C above the receiving water temperature
7.	Oil & Grease mg/l max.	10	20	10	20
8.	Total residual chlorine	1.0	----	------	1.0
9.	Ammonical nitrogen (as N) mg/l max.	50	50	------	50
10.	Total Kajeldahl nitrogen (as NH_3) mg/1 max.	100	----	------	100
11.	Free ammonia (as NH_3) mg/1 max.	5.0	----	------	5.0
12.	Biochemical Oxygen Demand (5 days at (20^0C) mg/1 max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/1 max.	250	----	------	250
14.	Arsenic (as As) mg/1 max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg) mg/1 max.	0.01	0.01	------	0.001
16.	Lead (as pb) mg/1 max.	01.	1.0	------	2.0
17.	Cardmium (as Cd) mg/1 max.	2.0	1.0	------	2.0

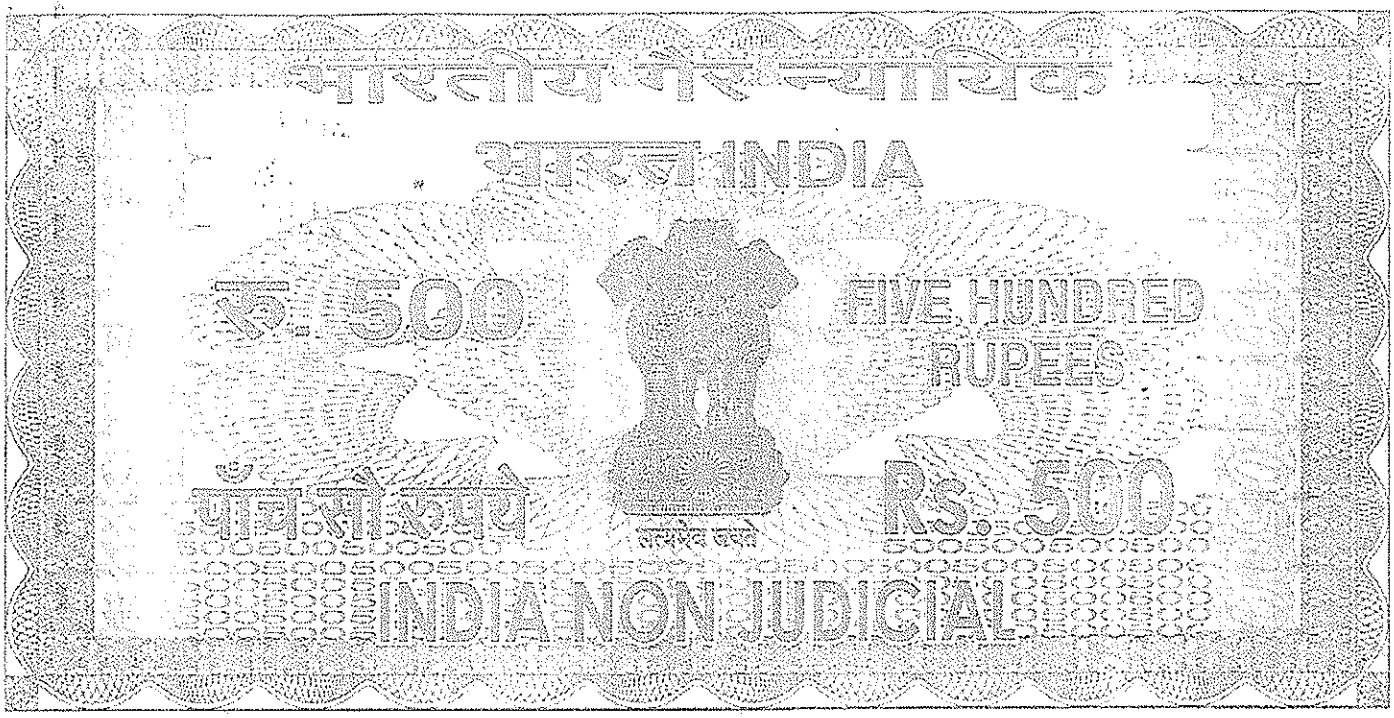
18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	-------	1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	-------	2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0	-------	3.0
21.	Zinc (as Zn) mg/l max.	5.0	15	-------	15
22.	Selenium (as Sc) mg/l max.	0.05	0.05	-------	0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0	-------	5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	-------	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0	-------	-------	-------
27.	Sulphide (as S) mg/l max.	2.0	-------	-------	5.0
28.	Phennolic compounds as (C_6H_5OH) mg/l max.	1.0	5.0	-------	5.0
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml.	10^7 10^6	10^7 10^6	10^8 10^7	10^7 10^6
30.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
31	Manganese (as Mn)	2 mg/l	2 mg/l	-------	2 mg/l
32.	Iron (Fe)	3 mg/l	3 mg/l	-------	3 mg/l
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-------	0.2 mg/l
34.	Nitrate Nitrogen	10 mg/l	-------	-------	20 mg/l

PART- B: NATIONAL AMBIENT AIR QUALITY STANDARDS

Sl. No.	Pollutants	Time Weighed Average	Concentrate of Ambient Air		
			Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1.	Sulphur Dioxide (SO_2), $\mu g/m^3$	Annual *	50	20	-Improved west and Gaeke
		24 Hours **	80	80	- Ultraviolet fluorescence
2.	Nitrogen Dioxide (NO_2), $\mu g/m^3$	Annual *	40	30	- Modified Jacob & Hochheiser (Na-Arsenite)
		24 Hours **	80	80	- Chemiluminescence
3.	Particulate Matter (size less than 10µm) or $PM_{10} \mu g/m^3$	Annual *	60	60	-Gravimetric - TOEM
		24 Hours **	100	100	- Beta Attenuation
4.	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$ $\mu g/m^3$	Annual *	40	40	-Gravimetric - TOEM
		24 Hours **	60	60	- Beta Attenuation
5.	Ozone (O_3) $\mu g/m^3$	8 Hours **	100	100	- UV Photometric - Chemiluminescence
		1 Hours **	180	180	- Chemical Method
6.	Lead (Pb) $\mu g/m^3$	Annual *	0.50	0.50	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter
		24 Hours **	1.0	1.0	
7.	Carbon Monoxide (CO) mg/m^3	8 Hours **	02	02	- Non Dispersive Infra Red (NDIR) Spectroscopy
		1 Hours **	04	04	
8.	Ammonia (NH_3) $\mu g/m^3$	Annual*	100	100	-Chemiluminescence - Indophenol Blue Method
		24 Hours**	400	400	
9.	Benzene (C_6H_6) $\mu g/m^3$	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10.	Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m^3	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis
11.	Arsenic (As), ng/m^3	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12.	Nickel (Ni),ng/m^3	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

** Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.



महाराष्ट्र MAHARASHTRA ◑ 2021 ◑ BG 664942

प्रधान मुद्रांक कार्यालय, मुंबई
प.मु.वि.क्र. ८०००२०
12 OCT 2021
समर्थ अधिकारी

KNOW ALL MEN BY THESE PRESENTS SHALL THAT TATA STEEL LIMITED, an existing company under the Companies Act, 2013, and having its Registered Office situated at Bombay House, 24, Homi Mody Street, Fort, Mumbai – 400 001 (hereinafter called "the **Company**") on and from the date on which the scheme of amalgamation of Bamnipal Steel and Tata Steel BSL Limited into and with Tata Steel Limited becomes effective (the **"Effective Date"**), nominates, constitutes and appoints the said Mr. Mohit Das, Chief Corporate Services (hereinafter unless otherwise designated called "the **Attorney**") to be the true and lawful Attorney of the Company for and on behalf of and in the name of the Company to execute, do and perform all or any of the following acts, deeds matters and things hereinafter specified:

1. To sign all correspondence that may be necessary in the ordinary course of business of the Company;

2. To sign and execute all Customs, Import and Export Manifests, Certificates of Origin, Security Bonds and other documents in relation to the goods imported and exported on behalf of the Company;

For Tata Steel Limited
Mohit Das
Chief, Corporate Services, TSL

Ms. ROSHAN M. MASTER
NOTARY, GREATER BOMBAY
2403, ORCHID TOWER A
BELLASIS ROAD,
MUMBAI - 400 008.

Superintending Engineer
Rengali Right Canal Division No.-II
Mahisapat, Dhenkanal

3. To sign all bills of lading, policies of insurance and other shipping documents relating to goods shipped for and on behalf of the Company for sale elsewhere and all documents required by all customs offices throughout India, Railways and other carriers in relation to the goods imported and exported on behalf of the Company;

4. To sign, execute and deliver documents, returns and declarations forms of any kind required under any revenue law such as Income Tax law, GST law, Sales Tax Law, Value Added Tax Law of any State, Service Tax, Excise or Customs Law, Mining Law, and such returns and forms, as may be required for the ordinary course of business of the Company;

5. To apply for and obtain copies of Returns, Assessment Orders, Plaints, Petitions, Written Submissions and other documents;

6. To commence, prosecute, abandon, defend, compound, compromise or submit to arbitration and carry to appeal and final execution all suits or other proceedings to which the Company may be a party and to sign, verify and present all plaints, written statements, petitions, affidavits, tabular statements, consent orders or any other documents whatsoever expedient or necessary;

7. To appear for and represent the Company in all Courts and Tribunals, Civil, Criminal, Municipal, Administrative, Industrial or otherwise and before Revenue and Tax Authorities and officials in any part of India in connection with any of the matters in which the Company may be concerned or interest;

8. To sign, verify and present all necessary applications, plaints, petitions, written statements, affidavits, vakalatnamas, tabular statements, or any other documents expedient or necessary;

9. To appoint, engage, remove from time to time any agents, stockiest, distributors, dealers and sales representatives, consultants including financial consultants, investment bankers, advisors, attorney, advocate or lawyers for any purpose and fix their remuneration;

Ms. ROSHAN M. [illegible]
NOTARY [illegible]
2403 [illegible]
[illegible]
MUMBAI - 400 [illegible]

10. To sign letter of indemnity, security bonds, surety bonds, indemnity bonds and other bonds or undertakings or declaration in favor of railways, customs, municipal or port authorities, Central or State Government departments or Company's bankers;

11. To carry on all correspondence and also apply for extension of time, accept notices, summons and other processes, assessment orders, judgments and decrees on behalf of the Company;

12. To lodge claims, apply for and receive refunds arising from any orders of any authorities;

13. To enter into any agreements/contracts on behalf of the company extending up to a period of 3 years which are required to be entered into on behalf of the company for any of the above matters or any other matter in the ordinary course of business of the Company and for period beyond 3 years, with prior approval of the Managing Director;

14. To appear for and on behalf of the Company in all registration offices and before the Registrar or Sub-Registrar or other officers and to present for registration all documents executed by the Company and to acknowledge and admit execution by the Company of all such documents and identify the Seal of the Company and to sign all such Memoranda and endorsements thereon and to take all necessary steps to register them according to law and do all such other acts and things as shall be necessary for effecting and completing the registration thereof in the form of law and to do all such acts, deeds and things as the Attorney may think proper for the purpose of carrying into effect the powers herein conferred and the Company do hereby agree to ratify and confirm all and whatsoever the said Attorney shall lawfully do in and about the premises by virtue of these presents.

The powers delegated herein are to be exercised by the Attorney strictly according to the delegation of powers granted by the Company and/or its CEO & Managing Director / Executive Director, from time to time.

MUMBAI-400 008.

This Power of Attorney shall be valid and remain in force so long as the Attorney is in the employment of the Company. Provided that when the Attorney is moved/transferred to other roles / other department, his Power of Attorney shall automatically stand revoked.

IN WITNESS WHEREOF the Company has granted this power of attorney on this 10th day of November 2021

Before me:

MS. ROSHAN M. MASTER
NOTARY, GREATER BOMBAY
2403, ORCHID TOWER A
BELLASIS ROAD,
MUMBAI - 400 008.
Reg. No. 404

Commission Expires on 30.11.2023

(Signature)

Name: T.V. Narendran

Designation: CEO & Managing Director

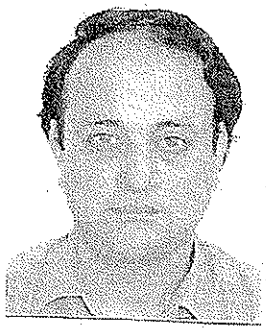
S. No 13/54726/2021

10.11.21

(Signature)

Accepted Accepted

Mohit Das



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