JSW JFE Steel Limited

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JJSL/ENV/26-27/019 **Date:30.05.2026**

To,
The Deputy Director General of Forest(C)
Ministry of Environment, Forest & Climate Change,
Eastern Regional Office, (EZ)
A/3, Chandrasekharpur
Bhubaneswar, Pin-751023

Subject: Six-Monthly Compliance Report (October 2025 to March 2026) on Stipulated Conditions of Environmental Clearances for 4.5 MTPA, 5.5 MTPA, 3.0 MTPA, 2.8 MTPA, 2.2 MTPA and 1.2 MTPA Integrated Steel Plant of JSW JFE Steel Limited (Formerly M/s Bhushan Power & Steel Limited), Village-Thelkoloi, Post-Lapanga, Tehsil-Rengali, District-Sambalpur, Odisha.

Reference: File No. IA-J-11011/40/2009-IA-II(I) dated 13.01.2023 and amendment dated 18.07.2023 (4.5 MTPA),2. File No. J-11011/40/2009-IA-II dated 06.12.2016 (5.5 MTPA),3. File No. J-11011/40/2009-IA-II dated 17.10.2012 (3.0 MTPA), 4. File No. J-11011/40/2009-IA-II dated 02.04.2010 (2.8 MTPA),5. File No. J-11011/372-IA-II dated 29.03.2007 (2.2 MTPA),6. File No. J-11011/228/2003-IA-II dated 12.05.2004 (1.2 MTPA).

Dear Sir,
With reference to the subject cited above and in accordance with the provisions of the EIA Notification, 2006 and its subsequent amendments, we would like to submit that the soft copy of the Half-Yearly Compliance Status Report for the period October 2025 to March 2026 pertaining to the Environmental Clearance of the above referred ECs along with the relevant annexures and supporting documents for Integrated Steel Plant of JSW JFE Steel Limited (formerly Bhushan Power & Steel Limited), located at Village-Thelkoloi, Post-Lapanga, Tehsil-Rengali, District-Sambalpur, Odisha, has been submitted to your office.

The report was sent on 30.05.2026 to the email ID **roez.bsr-mef@nic.in** from our official email ID **environment.bpsl@jsw.in**.

In case the same has not been received we kindly request you to inform us so that we may arrange to submit hard copies at your good office

Thanking you.
Yours faithfully,
For **JSW JFE Steel Limited**

Saurabh Singh
HOD -Environment

Hard copies submitted by post to:

1. The Member Secretary, SPCB, Parivesh Bhawan, A/118, Nilakanthanagar,Unit-VIII, Odisha, Bhubaneswar-751012
2. The Member Secretary, CPCB, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.

COMPLIANCE STATUS TO THE ENVIRONMENT CLEARANCE
EC ID No.- EC23A008OR181742, File No. - IA-J-11011/40/2009-IA-II(I) dtd. 13/01/2023
EC ID No.-EC23A1001OR5404024A, File No. - IA-J-11011/40/2009-IA-II(IND-I) dtd.18/07/23

A. Specific Condition:

S. N	Condition Details	Compliance Status
i	This Environmental clearance is granted subject to outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed to comply
ii	The Committee deliberated upon the latest certified compliance report of IRO, MoEF & CC as well as action plan submitted by PP with respect to the observations reported by IRO, MoEF & CC. The PP shall strictly comply with the commitments made and the action plan submitted to comply with partially complied conditions. The timely implementation must be ensured by IRO, MoEF& CC as per the Action Plan submitted by the project proponent.	The commitments made and the action plan submitted to the IRO as part of the certified compliance reporting process have been complied with.
iii	The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	All the environmental protection measures as proposed in the documents submitted to the Ministry. The recommendations outlined in the EIA/EMP with respect to environmental management and risk mitigation for the project have been duly complied with.
iv	The project proponent shall utilize modern technologies for capturing emitted carbon and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Several measures to reduce greenhouse gas (GHG) emissions through implementation of energy conservation initiatives, including Pulverized Coal Injection (PCI), installation of Top Recovery Turbine (TRT) in Blast Furnaces, reduction in fuel rate in Blast Furnaces, utilization of RB-1 & RB-2 coal in DRI operations, replacement of conventional lighting with LED systems, installation of steam traps in steam circuits, reduction in LPG consumption, and minimization of gas flaring losses. Further, development of greenbelt and plantation activities within the plant and township areas is in progress to act as carbon sinks. In addition, the feasibility for implementation of Carbon Capture, Utilization and Storage (CCUS)

		technology is being explored at the group level.
v	The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit	The activities committed during the public hearing have been complied with. Appropriate measures have been undertaken with a continued focus on enhancing livelihood opportunities and improving socio-economic conditions through Corporate Social Responsibility (CSR) initiatives.
vi	The project proponent shall abide by all orders and judicial pronouncements, made from time to time w.r.t OSPCB directions under Section 31(A) of Air(P&CP) Act,1981 and 33(A) of Water(P&CP) Act, 1974 amended thereafter issued vide Letter No. 6989/IND_I_CON-4650, dated 07.05.2021, Letter No-11377/IND-I-CON-4650 dated 07/08/2021 and Letter No-17816/IND-CON-4650, dated-12/11/2021.	Compliance to all orders and judicial pronouncements made from time to time are being ensured.
vii	The PP shall strictly comply with the commitments made and the action plan submitted to comply with partially complied conditions reported by IRO in the certified compliance report.	The commitments made and the action plan submitted to the IRO as part of the certified compliance reporting process have been complied with.
viii	The PP shall strictly fulfil commitments made in PH as per the action plan committed by December 2023.	The activities committed during the public hearing have been fully complied with. Appropriate measures have been undertaken with a continued focus on enhancing livelihood opportunities and improving socio-economic conditions through Corporate Social Responsibility (CSR) initiatives.
ix	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.	All rejects, middlings and tailings generated from the coal washery are fully utilized in the captive power plant within the premises.
x	Tailings from Iron Ore washing plant shall be dewatered in filter press and stored dry maximum for a period of 30 days inside the plant premises.	A deep bed paste thickener is installed at the Iron Ore Beneficiation Plant for efficient dewatering of tailings. The recovered process of water is reused within the plant, promoting water conservation. The thickened tailings are directly conveyed and disposed of in the tailing pond, thereby avoiding storage within the plant premises. Further, part of the tailings is gainfully utilized in the sinter plant.
xi		

a	Maximum 90 days of slag storage area shall be permitted inside the plant.	Blast Furnace (BF) slag is regularly sold to cement manufacturers and dispatched through railway rakes within 30 days of generation. Electric Arc Furnace (EAF) slag is processed through crushing and segregation; high iron-bearing fractions are recycled back into the EAF, medium iron-bearing fractions are utilized in the sinter plant, and low iron-bearing fractions are used for low-lying area filling and road construction within the stipulated timeframe.
b	PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.	Slag crusher plant has been installed for processing slag. The recovered metal is effectively recycled and reused in the Steel Melting Shop (SMS) and the Sinter Plant. The non-metallic portion is gainfully utilized in sinter plant as flux and for road construction and other infrastructure development works.
c	PP shall recycle/reuse 100 % solid waste generated in the plant.	Continuous efforts are being undertaken to achieve 100% recycling of solid waste generated within the plant. Fly ash is being fully utilized through various sustainable manners, including supply to brick manufacturing units, utilization in road development projects, and dispatch to cement plants. Any balance quantity is being used for reclamation of low-lying areas after obtaining Other iron-bearing by-products such as ESP dust, bag filter dust, GCP dust, and ARP residues are effectively recycled and reused in the iron-making process. Granulated blast furnace slag is being consistently supplied to nearby cement plants for further utilization. Additionally, carbon-bearing materials are being recovered and utilized in the captive power plant and coke oven units for energy recovery, thereby enhancing overall resource efficiency and minimizing waste.
d	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	In line with carbon recovery practices, elemental carbon present in flue dust is being effectively recovered and reutilized in the Sinter Plant. Additionally, further utilization avenues, including co-processing in cement plants, are being

		actively explored to enhance overall resource efficiency and optimize waste utilization.
e	Used refractories shall be recycled as far as possible	All the used refractories are sold to actual recyclers.
xii		
a	Sinter cooler waste recovery system shall be installed to generate steam or power.	Project for utilization of Waste Heat from the sinter cooler through coke will directly reduce minimum10 kg of CO2 emission per ton of Crude steel.
b	Equipped with MEROS technology to reduce emission of SO2, NOx and heavy metals.	We are exploring installation of MEROS technology, How ever we have already implemented Dual ESP to control Primary and Secondary Emissions from the Shop.
xiii	Producer gas plant shall not be established by the proponent.	Producer gas plants are not envisaged in this proposed expansion project.
xiv		
a	Coke Dry Quenching (CDQ) shall be installed.	CDQ proposal is under technical evaluation and has also been taken under the De-carbonization road map.
b	Coke Oven Gas shall be desulfurized.	Coke oven gas has been desulfurized.
c	Tar sludge shall be mixed with coal and reused.	Tar sludge has been mixed with coal and reused in coke oven.
xv	BF shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	The Top Pressure Recovery Turbine (TRT) has been installed and is currently in operation at Blast Furnace–2 (BF-2), enhancing energy recovery efficiency. Blast Furnace–I (BF-1) is equipped with a dry Gas Cleaning Plant (GCP), while Blast Furnace–II (BF-2) is provided with a wet Gas Cleaning Plant (GCP) for effective gas purification. Adequate ventilation systems have been installed at both the cast house and stock house of the two blast furnaces to ensure proper air circulation and control of fugitive emissions. Additionally, slag granulation facilities have been established for both blast furnaces, enabling efficient slag handling, processing, and beneficial utilization.
xvi	Secondary fume extraction system shall be installed on converters of Steel Melting Shop.	The existing Steel Melting Shop (SMS) is based on Electric Arc Furnace (EAF) technology. Primary and secondary fume extraction systems have already been installed and are in operation to control emissions. Converters are not envisaged as part of the present plant configuration.

xvii	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.	Basic Oxygen Furnace (BOF) is not envisaged in the 4.5 MTPA EC
xviii	Waste Heat Recovery system for charge preheating shall be included for 75 T Electric Arc Furnace.	Regular Open top ladle cars were replaced with highly energy efficient Torpedo ladle cars, for saving heat losses during hot metal transfer between BF and SMS which eliminated the requirement for waste heat recovery system for charging the preheat.
xix	Submerged Arc Furnace and Electric Arc Furnace shall be closed type with 4th hole extraction system.	Electric Arc Furnaces are closed type with 4th hole extraction system.
xx	85-90% of billets/slabs shall be rolled directly in hot stage. Only 10-15 % rolling shall be done through RHF using only Light Diesel Oil or Mixed BF/CO gas.	100% of slab is rolled directly in hot stage and 100% of billet is rolled through RHF by using BF & CO gas.
xxi	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF.	A dedicated Effluent Treatment Plant (ETP) with a capacity of 1200 KLD has been established for the treatment of effluents generated from the CRM complex. The treated effluent is fully recycled and reused within the plant The sludge generated from the treatment process is disposed of at an authorized TSDF facility through M/s Re Sustainability Limited.
xxii	Acid recovery plant shall be included to recover acid from pickling lines.	Acid recovery plant is in operation to recover acid from pickling lines
xxiii	Dust emission from Steel Plant stacks shall not exceed 30 mg/Nm3.	Adequate air pollution control devices have been installed and are in operation to maintain dust emissions below 30 mg/Nm³.
xxiv	Water requirement for the plant shall be met from Back Water Reservoir of Hirakud Dam. Ground water abstraction is not permitted.	The water requirement for the plant is sourced from the backwater reservoir of the Hirakud Dam. Groundwater is neither abstracted nor used for any purpose.
xxv	Three tier Green Belt shall be developed covering at least 33% of the total project area by September, 2024 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Development of 33% greenbelt is under progress in and around the plant complex, both within and outside the premises, through plantation of native species in line with CPCB guidelines. As of March 2026, approximately 33% of the total area (including both inside and outside the plant) has been covered under greenbelt development. The survival rate of the developed greenbelt is being monitored on a periodic basis, and any casualties are being replenished through regular replantation to

		ensure sustainability and continuity of the green cover.
xxvi	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	All vacant areas within the plant premises have been developed with greenery/paving to enhance environmental sustainability. Additionally, internal roads within the plant are constructed with concrete to minimize dust generation and ensure better housekeeping.
xxvii	Specific water consumption in the steel plant shall be less than 6.0 m3/t of finished product.	Specific water consumption in the steel plant is less than 6.0 m3/t of finished product.
xxviii	Performance tests shall be conducted on all pollution control systems every year and the report shall be submitted to the Regional Office of the MoEF&CC.	Performance evaluation of all pollution control equipment is carried out on an annual basis. Last year has submitted vide letter no- JSWBPSL/ENV/25-26/14 dated.20.05.2025. The performance evaluation study for the year 2025–26 is currently under progress by IIT Bhubaneswar. The final report will be submitted to your good office upon receipt from the institute.
xxix	Dedicated railway siding within the steel plant complex shall be established by the proponent by December,2023 for the transportation of materials as committed.	Dedicated railway siding within the steel plant complex has been established and in operation.
xxx	As committed by the PP, they shall prepare and submit the plan to conserve the nearby lakes and shall develop Lake Fronts for two lakes nearby.	Annual renovation and maintenance of existing ponds in the peripheral villages are being undertaken as part of our environmental and community development initiatives.
xxxi	Parking area for trucks/dumpers shall be provided within the steel plant. No truck/dumper shall be parked outside the steel plant premises.	Dedicated truck parking area have been developed within the plant premises. No trucks or dumpers are permitted to park outside the plant, ensuring proper traffic management and minimizing congestion in surrounding areas.
xxxii	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	All electronic waste generated within the plant is disposed of through vendors authorized by the Odisha State Pollution Control Board (OSPCB) and the Central Pollution Control Board (CPCB), ensuring compliance with applicable regulations."

B. General Conditions:

I. Statutory compliance

S.N.	Condition Details	Compliance Status
i	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislation, etc., as may be applicable to the project.	All statutory approvals, consents, and permissions required for the establishment and operation of the plant have been duly obtained from the concerned authorities.

II. Air quality monitoring and preservation:

S.N	Condition Details	Remarks
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	06 Nos. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) is in operation for monitoring ambient air quality. 50 Nos. of Continuous Emission Monitoring Systems (CEMS) have been installed at all process stacks for continuous monitoring of emissions. The CEMS and CAAQMS are connected to the servers of CPCB and OSPCB for real-time data transmission. Regular calibration of all analyzers is carried out as per CPCB guidelines through NABL accredited laboratories.
ii	The project proponent shall monitor fugitive emissions in the plant premises at least once every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emission monitoring is being carried out at various locations across the plant on monthly basis through inhouse NABL accredited Laboratory. The summary of the Fugitive emission monitoring report for the period October'25 to March'26 is enclosed as **Annexure I.**
iii	Sampling facilities at process stacks and at quenching towers shall be provided as CPCB guidelines for manual monitoring of emissions.	Sampling facilities have been provided at all process stacks as per CPCB guidelines to facilitate manual monitoring of emissions.
iv	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Adequate Air Pollution Control (APC) systems, such as Electrostatic Precipitators (ESPs), Bag Filters, Gas Cleaning Plants (GCP),wet scrubbers, water sprinkling systems, and industrial vacuum-cleaning units, are installed and in operation to control both stack emissions and fugitive emissions.

		In addition to the above, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also in operation to minimize dust generation and ensure effective control of fugitive emissions across the plant premises
v	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Leakage detection systems have been installed in all bag filters across the plant to ensure effective emission control. Additionally, mechanized bag cleaning systems are in place to maintain optimal performance and enhance the longevity of filter bags.
vi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Adequate numbers of road sweeping machines have been deployed for regular cleaning of internal concrete roads. Reputed agencies have been engaged for mechanized housekeeping, with sufficient mobile equipment and industrial vacuum cleaners for effective cleaning of shop floors and roofs.
vii	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	The ore, coal, coke, and lime fines collected from air pollution control (APC) devices and vacuum-cleaning systems are systematically processed and recycled through the Sinter Plant, ensuring effective resource utilization and minimizing waste generation.
viii	The project proponent uses leak proof trucks/dumpers carrying coal and other raw materials and covers them with tarpaulin.	The majority of raw materials required for the plant are transported through rail. The remaining materials transported by road are carried in well-maintained trucks and dumpers, which are properly covered with tarpaulin to prevent spillage and fugitive dust emissions.
ix	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum-cleaning facility).	A chain conveyor is already installed at our recovery type coke oven.
x	Land-based APC system shall be installed to control coke pushing emissions.	An adequate APC system has been installed at the coke oven to control pushing emissions.
xi	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Online CO, HC, and O_2 analyzers have been installed in Coke Oven Battery–2 for continuous monitoring of combustion efficiency and early detection of any cross leakages within the combustion chambers.

xii	Vapor absorption system shall be provided in place of vapor compression system for cooling of coke oven gas in case of recovery type coke ovens.	The recovery type of coke oven installed at our plant is equipped with a vapor absorption system.
xiii	Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	The following air pollution control systems have been installed to effectively control fugitive dust emissions: Mist cannons and water sprinklers have been installed at raw material stockpiles for effective dust suppression. Dry fog systems have been provided at all four wagon tipplers in the Raw Material Handling System (RMHS) to control dust emissions during unloading operations. Truck tipplers are equipped with high-pressure dust suppression systems. Adequate numbers of water sprinklers have been installed along internal roads and other dust-prone areas to further mitigate fugitive dust emissions.
xiv	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	All the all tunnels, motor houses, Oil Cellars are provided with a sufficient ventilation system.

III. Water quality monitoring and preservation:

S.N	Condition Details	Remarks
i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	05 Nos. of Continuous Effluent Quality Monitoring Stations (CEQMS) have been installed as per CPCB guidelines and are connected to the servers of CPCB and OSPCB for real-time data transmission. The CEQMS are calibrated from time to time as per supplier specification and CPCB guidelines through NABL-accredited laboratories. Summary of treated effluent water quality report for the period October'25 to March'26 is enclosed as **Annexure-II.**
ii	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Pre & post-monsoon groundwater monitoring is carried out on a half-yearly basis in peripheral village areas through laboratories recognized under the Environment (Protection) Act, 1986 and accredited by NABL.

iii	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time;	A Biological Effluent Treatment Plant (ETP) with a capacity of 1800 KLD has been installed and is in operation at the By-Product Plant of Coke Oven–2. The system has been designed to meet the effluent discharge standards prescribed under G.S.R. 277(E) dated 31st March 2012 for the Integrated Iron & Steel sector. A summary of treated water analysis report of ETP of Coke Oven for the month of October'25 to March'26 is attached as **Annexure-III.**
iv	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Sewage Treatment Plants (STPs) have been installed to treat domestic wastewater generated from the guest house, canteens, and residential quarters, ensuring compliance with prescribed standards. In addition, individual septic tanks with soak pits have been provided for offices and workshops within the plant premises for proper management of domestic wastewater. Summary of Treated Sewage analysis report for the period October'25 to March'26 is enclosed as **Annexure-IV.**
v	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Garland drains with settling tanks have been provided at stock yards for arresting runoff during rainy days and water pollution.
vi	Tyre washing facilities shall be provided at the entrance of the plant gates.	Tyre washing facilities have been installed at material inward and outward gates, RMHS area, and CPP ash handling area.
vii	Treated water from ETP of COBP shall not be used for coke quenching.	The treated water from ETP of COPBP is effectively reused as makeup water in cooling towers, ensuring maximum water recovery and conservation.
viii	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Water meters have been provided at the inlet of all the process units of the plant for regular monitoring of water consumption.

IV. Noise monitoring and prevention:

S. N	Condition Details	Compliance Status
i	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules,2000 and the report in this regard shall be submitted to the Regional	Regular monitoring is being done, and the reports are submitted to the Regional Office of MoEF & CC, Bhubaneswar, along with six-monthly compliance reports. The summary of the Noise monitoring report for

	Officer of the Ministry as a part of a six-monthly compliance report.	the period October '25 to March'26 is enclosed as **Annexure-V.**

V. Energy Conservation measures

S.N	Condition Details	Remarks
i	Use torpedo ladle for hot metal transfer as far as possible. If ladles are not used, provide covers for open top ladles.	Only torpedo ladles are used to transfer hot metal from Blast Furnace to SMS.
ii	Restrict Gas flaring to <1%.	Gas flaring is maintained <1% during normal Operation
iii	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintaining the same regularly.	Presently we have installed solar light system in the plant premises and execution of rooftop solar power generation facility over GET Hostel is under progress
iv	Provide LED lights in their offices and residential areas.	LED lights have been provided in all the offices, plant shops and residential areas
v	Ensure installation of regenerative type burners on all reheating furnaces.	Oxy fuel burner has been installed as an alternative to the conventional regenerative type burner to enhance combustion efficiency, reduce fuel consumption and minimize emission.

VI-Waste Management

S. N	Condition Details	Remarks
i	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Oil collection pits have been provided at all the cellars. The oiling of cold rolled coils is done through Electrostatic sprayers to avoid spillage.
ii	Kitchen waste shall be composted or converted to biogas for further use.	Organic waste converter of capacity 500 kg/Day has been installed for converting organic kitchen waste generating from all canteens, guest houses and staff quarters to compost. However execution of new biogas plant of capacity >3 Ton/day is under progress.

VII. Greenbelt

S. N	Condition Details	Remarks
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	GHG emission is being calculated daily as per WSA guidelines. Detailed decarbonization road map has been prepared up to FY2030

ii	Project proponent shall submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames", when PP comes for EC proposal. This study shall be formulated keeping in view of India's Net-zero commitment at the COP-26 Climate Summit.	Decarbonization road maps have been prepared for FY-20230 and are working on the implementation of projects to reduce CO2 emission.

VIII. Public hearing and Human health issues

S. N	Condition Details	Remarks
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt 10 villages, namely Thelkoli, Dhubenchapal (Gontiapada), Banjiberna, Siripura, Kheruwal, Sradhapali, Maliatika, Khadiapali, Sunamal, Derba villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed by the PP.	As per the provisions of Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020 and commitment made by us we have already continued community development activities in the 10 villages namely Thelkoli, Dhubenchapal (Gontiapada), Banjiberna, Siripura, Kheruwal, Sradhapali, Maliatika, Khadiapali, Sunamal and Derba. Various need based socioeconomic development program covering education, safe drinking water, sports, Health care are undertaken in nearby villages. The details of the CSR initiatives for the year 2025-26 is enclosed as **Annexure-VI.**
ii	Emergency preparation plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparation plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan has been implemented.
iii	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Heat stress analysis for the workmen who work in high temperature work zone has been conducted and provide Personal Protection Equipment (PPE) as per the norms.
iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance of the workers is being done on a regular basis, and records are maintained.

IX. Environment Management

S.N	Condition Details	Remarks
i	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures / conditions. The company shall have defined system of reporting infringements / deviation EC Identification No. - EC23A008OR181742 File No. - IA-J-11011/40/2009-IA-II(I) Date of Issue EC - 13/01/2023 Page 11 of 16 / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	A well-defined Environmental Policy, duly approved by the Board of Directors, is in place within the organization. The policy establishes standard operating procedures and prescribes conditions for ensuring compliance with applicable environmental regulations, statutory requirements, and industry best practices. Further, the Company publishes an Integrated Report (IR) annually, covering all operational locations of JSW. The report comprehensively addresses stakeholder engagement and management aspects, thereby ensuring transparency, accountability, and disclosure of environmental performance. The relevant extract of the Integrated Report is enclosed as **Annexure-VII** for kind reference. The complete report is also available for review on the Company's official website at: https://www.jswsteel.in
ii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel, shall be set up under the control of a senior Executive, who will directly report to the head of the organization.	Separate Environmental Cell has been established having qualified people headed by Senior Executive reporting directly to the head of the organization.

X. Miscellaneous

S.N	Condition Details	Remarks
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Advertisement was published in two local newspapers in both English and Odia.
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to	The status of compliance of the stipulated environment clearance conditions, including results of monitored data has been uploaded on the website. https://www.jswbpsl.in/compliancees.html

	display the same for 30 days from the date of receipt.	
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	The status of compliance of the stipulated environment clearance conditions, including results of monitored data has been uploaded on the website https://www.jswbpsl.in/compliances.html
iv	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	The criteria pollutants, namely PM_{10}, SO_2, and NO_x (both ambient air quality levels and stack emissions), are continuously monitored through an online monitoring system. The monitored data is displayed on a digital display board installed at the main gate for public disclosure.
v	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.	Six-monthly compliance report is being submitted to the Regional Office of MoEF & CC. Latest report has been submitted vide letter No-JSWBPSL/ENV/26-27/019 dated.30.05.2026.
vi	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environmental statements in Form-V is being submitted regularly to OSPCB/MOSF & CC. The same has been updated on the company's website. The latest Environment Statement was submitted vide letter no-JSWBPSL/ENV/25-26/58 dated 22.09.2025.
vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	This is an existing plant where project activities are going on. The financial closure shall be intimated upon completion.
viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during Public Hearing and also during their presentation to the Expert Appraisal Committee.	Compliance with all environmental protection measures as recommended in EIA/EMP report, as well as the commitment made during the Public Hearing and the presentation to the Expert Appraisal Committee, is ensured.
ix	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to	Details of environment-related expenditure, including implementation of PH Action Plan and EIA/EMP commitments, are regularly updated and made available on the

	public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	company's official website along with the compliance report for public information.
x	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	No expansion or modification will carry out without prior approval from the Ministry of Environment, Forests, and Climate Change (MoEF &CC).
xi	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed to comply

COMPLIANCE TO EC CONDITIONS

F.No-J-11011/40/2009-IA-II(I), dated 06.12.2016 for3.0 to 5.5 MTPA

A. Specific Condition:

No	Condition Heading	Condition Details	Compliance Status
i	Air quality Monitoring & Preservation	The project Proponent shall install 24x7 air monitoring devices to monitor air emission as provided by the CPCB and submit report to ministry and its Regional office	Six Continuous Ambient Air Quality Monitoring Stations have been installed in down wind direction as well as where max ground level concentration were anticipated by consultant in consultation with the regional office OSPCB. Ambient Air Quality report has been submitted periodically to the Regional Office of MoEF&CC as well as OSPCB/CPCB along with the half yearly compliance. The half-yearly compliance for the period Oct'25 to March'26 has been submitted vide letter JJSL/ENV/26-27/019 dtd.30.05.26.
ii	Statutory Compliance	The project Proponent shall prepare R&R plan for the affected households in the core zone, including compensation to be paid and employment to be provided and submit the same to the Regional office of the Ministry of Environment, Forest and Climate Change, Bhubaneswar Odisha.	R&R Master Plan has been prepared and approved by District Magistrate. The approved R&R has also been submitted to the Regional Office of the Ministry of Environment, Forest and Climate Change, Bhubaneswar Odisha. Approved R&R is attached as **Annexure-IX.**
iii	Air Quality Monitoring & preservation	Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag house, bag filters etc, shall be provided to keep the emission levels below 50 mg/Nm^3 and installing energy efficient technology.	Continuous Emission Monitoring system (50 No of PM and 14 No of Gas analyser) has been installed in all the major stacks as per the directive of State Pollution Control Board letter. The copy of the letter is attached as **Annexure- X** for reference. Electrostatic Precipitators, Bag house, Fumes Treatment Plant, Wet Scrubber, Dry GCP are in operation to keep the emission levels below 50. mg/Nm^3. Best available energy efficiency technology has been adopted.
iv	Air Quality Monitoring & preservation	Hot Gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely. The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.	The Hot gases waste gas generated from the DRI kilns first passes through a Dust Settling Chamber (DSC) to remove coarse particulate matter. Subsequently, the gas enters the After Burning Chamber (ABC), where carbon monoxide (CO) is completely combusted. The heat generated during this process is recovered through dedicated Waste Heat Recovery

			Boilers (WHRBs) for power generation, thereby enhancing energy efficiency and resource conservation. Thereafter, the flue gas is routed through independent Electrostatic Precipitators (ESPs) for effective removal of fine particulate matter before being discharged to the atmosphere through Induced Draft (ID) fans and stacks of adequate height. A total of 15 ESPs has been installed and 3 bag filters are operational in the DRI complex, ensuring compliance with the prescribed emission standards.
v	Water Quality Monitoring & Preservation	Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. ETP sludge should be disposed off scientifically.	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. In addition, under its community-based rainwater harvesting and water conservation programme, the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, and improved groundwater recharge. All effluent has been treated and reused for ashes being handled, dust suppression and green belt development. Iron bearing ETP sludge is recycled in Sinter Making as per CPCB SOP. Hazardous ETP Sludge being disposed of at CHWTSDF.
vi	Waste Management	All the coal fines, char from DRI plant shall be utilized and no char shall be used for briquette making or disposed off anywhere else. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	All the coal fines, char from DRI plant being utilized along with Coal in CPP and no char being used for briquette making or disposed off anywhere else. Scrap from SMS and other areas and kiln accretions being recycled to a maximum extent. 100% solid waste being utilized in Environment Friendly manner.

vii	Miscellaneous	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coal mines shall be created within the Unit.	In the existing plant the entire internal roads have been made concrete. The roads are being cleaned through 09 numbers of mechanized road sweepers. Tree plantation has been done in project completed area and avenue plantation using native species is being developed along the internal roads. . Coal transport vehicles are parked at designated parking areas. Two parking facilities have been developed for parking of trucks carrying raw material.
vii	Statutory Compliance	The standards issued by the Ministry vide G.S.R.No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.	The standards issued by the Ministry vide G.S.R.No. 277(E) dated 31st March, 2012 regarding Integrated iron and steel plant is being followed in existing plant and same will be implemented in the upcoming projects.
ix	Statutory Compliance	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16the November, 2009 shall be followed.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009 is being followed.
x	Air Quality Monitoring & Preservation	Gaseous emission levels including secondary fugitive emission from all the sources shall be controlled within the latest permission limits issued by the Ministry vide G.S.R414(E) dated 30th May, 2008 and regularly monitored. Guidelines/ code of Practice issued by the CPCB shall be followed.	Gaseous and particulate emissions generated from various processes are maintained within the standards prescribed by the State Pollution Control Board. Permission limits issued by the Ministry vide G.S.R414(E) dated 30th May, 2008 and guidelines/ code of Practice issued are being followed.
xi	Air Quality Monitoring & Preservation	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emission during loading and unloading of the raw material and finished product.	• Vehicles carrying raw materials and finished products are being covered with tarpaulin. • Water sprinkling arrangement has been made at raw material handling areas to control dust emission during loading and unloading raw materials. • Mobile water sprinkling tankers are engaged for regular water sprinkling on raw material transporting roads to control fugitive dust. • Six nos. of Wheel washing system has been installed to clean the vehicle wheel and control the fugitive dust. • Nine nos. of mechanized road sweeping machine are being used for dust

			extraction from the concrete road. • Five numbers of mist beams has been installed at RMHS stock yard area for control of fugitive dust. • Two nos. of multiutility vehicle has been engaged dust suppression, tree cleaning, mist beam for dust suppression
xii	Water Quality Monitoring & Preservation	'Zero' effluent discharge shall be strictly followed and no waste water shall be discharged outside the premises.	A comprehensive Zero Liquid Discharge (ZLD) system has implemented to ensure that no industrial effluent is discharged outside the plant boundary. Additional water conservation and reuse initiatives • To strengthen ZLD implementation, the following measures have been adopted: • Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency. • Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5). • Utilization of STP treated water in cooling tower make-up. • Use of wastewater treated for road cleaning, dust suppression, and horticulture. • Reuse of treated wastewater for greenbelt irrigation and plantation maintenance. • Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption. Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.
xiii	Water Quality Monitoring & Preservation	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.	Monitoring treated effluent, treated wastewater, and groundwater is being carried out regularly as per the stipulated conditions and applicable regulatory requirements. The groundwater quality monitoring reports of the surrounding villages are enclosed as **Annexure–VIII.** The analysis reports of treated effluent from the ETP outlet, treated wastewater from WWTP-1, WWTP-2, and WWTP-3

			outlets, and the outlet of the Biological Effluent Treatment Plant (BETP) for the period Oct'25 to March'26 are enclosed as **Annexure–II, III & IV.**
xiv	Waste Management	Proper handling, storage, utilization and disposal of all the solid waste shall be ensure and regular report regarding toxic metal content in the waste material and its composition, and use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.	Proper handling, storage, utilization and disposal of all the solid waste being ensured. Continuous efforts are being undertaken to achieve 100% recycling of solid waste generated within the plant. Annual returns of hazardous waste is being regularly submitted to SPCB Odisha
xv	Waste Management	A time bound action plan shall be submitted to reduce solid waste generated due the project related activity, its proper utilization and disposal.	The solid waste generate from various plant units are being recycled within the plant. Continuous efforts are being undertaken to reduce the specific Waste generation and to achieve 100% waste utilization.
xvi	Waste Management	Utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amended. All the fly ash shall be provided to cement and brick manufacturer for further utilization and Memorandum of Understanding shall be submitted to the Regional Office of the Ministry, Bhubaneswar.	The ash generated from CPP is being utilized in different areas like fly ash brick manufacturing, low lying area filling, embankment rising and quarry void filling. Fly ash is being supplied to 45 numbers of fly ash based brick manufacturing units in and around Jharsuguda, Sambalpur, Sundargarh at free of cost with transportation subsidy @150/Ton for maximum utilization of ash.
xvii	Risk Mitigation & Disaster Management	A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	A comprehensive **Risk Assessment and Disaster Management Plan (DMP)** along with mitigation measures has been prepared and implemented for the project covering various operational and emergency scenarios. The plan includes identification of potential risks, preventive measures, emergency response procedures, resource deployment, communication systems, and evacuation arrangements to minimize environmental and safety impacts. The provisions of the Disaster Management Plan (Onsite Emergency Plan) are being periodically reviewed, and mock drills are conducted to assess preparedness. The copy of the same has already been submitted to OSPCB/CPCB/MoEF&CC. The approved copy is attached as **Annexure- XI.**

xviii	Greenbelt	Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local communities as per the CPCB guidelines.	Development of 33% greenbelt is under progress in and around the plant complex, both within and outside the premises, through plantation of native species in line with CPCB guidelines. As of March 2026, approximately 33% of the total area (including both inside and outside the plant) has been covered under greenbelt development.
xix	Public Hearing	All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactory implemented as adequate budget provision shall be made accordingly.	All the commitments made to the public during Public Hearing/Public Consultation meeting have been implemented and the details compliance is enclosed as **Annexure-XII.**
xx	Miscellaneous	An amount of Rs.458 crores shall be earmarked towards the Enterprise Social Commitment for a period of 10 years for implementing activities based on Public Hearing issues, local needs and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	An amount of **Rs.498.28** crores shas been incurred towards the Enterprise Social Commitment for implementing activities based on Public Hearing issues, local needs and item-wise details along with time bound action plan was prepared and submitted to the Ministry's Regional Office. Representatives of village panchayat and District Administration are being consulted before implementation of any project. Action taken report on this regard has been submitted to the Ministry's Regional Office along with half yearly compliance.
xxi	Miscellaneous	The proponent shall prepare a detailed CSR plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, sanitation, Health, Skill Development ad infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR plan will include the amount of 2 % retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2 % of the average net profits of previous 3 years towards CSR activities for life of the project. A	The details of CSR activities and Peripheral Development undertaken since acquisition FY'22 to FY'26 is enclosed as **Annexure – VI.** The CSR activities details are being submitted along with half yearly EC compliance periodically.

		separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the Compliance Report to RO. The details the the CSR plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	
xxii	Corporate Environmental Responsibility	The company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/ procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	All environmental protection measures and pollution control systems envisaged in the **EIA/EMP Report** have been implemented and are being operated effectively. The Company continues to undertake regular monitoring and maintenance of these facilities to ensure compliance with applicable environmental norms and to minimize environmental impacts arising from plant operations. In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various **Community Development and Socio-Economic Development Programmes** in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure. • Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular **free health camps** in association with the District Administration and reputed healthcare institutions are being

			organised. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages. The detailed CSR activities undertaken since acquisition are attached as **Annexure- VI.** SOP is in place to address external stake holder grievances. The grievances mechanism also incorporated in the Integrated Report of the company.
xxiii	Energy Preservation & measures	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	We have already provided solar streetlight in Village Salad. We assure to provide solar lights in more villages and also expedite installation of solar light in common areas of the plant.
xxiv	Energy Preservation & measures	The Project proponent shall provide for LED lights in their offices and residential areas.	LED lights are being provided in all the offices and residential areas.
xxv	Human Health Environment	Provision 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The Company has established a dedicated labour colony to provide safe and adequate accommodation for all temporary construction workers engaged at the project site. Necessary welfare amenities, including toilets, washrooms, potable drinking water facilities, sanitation arrangements, and other basic infrastructure, have been provided and are being maintained in the labour colony to ensure hygienic living conditions for the workforce. In addition, free medical facilities are being provided to all workers through the Company's Occupational Health Centre (OHC). The OHC is equipped to provide routine health check-ups, first-aid treatment, emergency medical assistance, and occupational health services to employees and contract workers. The Company continues to ensure compliance with applicable labour welfare and occupational health requirements during the construction and operational phases of the project.

B. General Conditions:

No	Env. Parameter	Condition Description	Compliance Status
i	Statutory Compliance	The Project authorities must strictly adhere to the stipulations made by the Odisha pollution Control Board and the State Government.	All applicable stipulations made by Odisha State Pollution Control Board, Odisha and State Government are being complied.
ii	Statutory Compliance	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate Change (MOEFCC).	No expansion or modification will be carried out without prior approval of Ministry of Environment Forest and Climate Change.
iii	Air Quality Monitoring & Preservation	At least four ambient air quality monitoring stations should be established in the downwind direction as well as where maximum ground level concentration of PM_{10}, $PM_{2.5}$, SO_2 and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Six. Continuous Ambient Air Quality Monitoring Stations have been installed in down wind direction as well as where max ground level concentration were anticipated by consultant consultation with the regional office OSPCB. Ambient Air Quality and Stack emissions are being regularly submitted to the Regional Office of MoEF&CC as well as OSPCB/CPCB latest half yearly compliance has been submitted vide letter JJSL/ENV/26-27/019 dtd.30.05.26. The report is attached as **Annexure XIII.**
iv	Water Quality Monitoring & Preservation	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Industrial waste Water has been collected and treated to confirm the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water is being used inside the plant in various applications such as ash conditioning, sprinkling, horticulture, firefighting etc. Analysis report of treated Effluent of effluent Treatment Plant (ETP), BETP & wastewater of WWTP-1, WWTP-2 WWTP-3 for the period of Oct '25 to Mar'26 is enclosed as **Annexure-II, III & IV.**
v	Noise Monitoring & amp;Prevention	The overall noise levels in and around the plant area shall be kept well within the standard 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation.	The overall noise levels within the plant premises and surrounding areas are being maintained well within the prescribed standards. Adequate noise control measures, such as installation of acoustic hoods, silencers, acoustic

		The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) day time and 70 dB(A) night time.	enclosures, and regular maintenance of equipment, have been implemented to minimize noise generation at source. Further, as a proactive occupational health and safety measure, no employee is deployed continuously for the entire working shift in high-noise areas. Personnel required to enter such areas are provided with and mandated to use appropriate hearing protection devices, including earplugs and earmuffs. Job rotation practices are also followed, wherever applicable, to minimize noise exposure. The results of work-zone noise monitoring and ambient noise monitoring conducted during the period **October 2025 to March 2026** indicate compliance with the applicable standards. The detailed monitoring reports are enclosed as **Annexure-V.**
vi	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An Occupational Health Centre (OHC) has been established within the plant premises to provide comprehensive healthcare services to employees and contract workers. The OHC conducts pre-employment and periodic medical examinations for all workers, including contract labourers, to monitor occupational health and ensure fitness for assigned duties. All statutory records, health surveillance data, and medical documents are maintained in accordance with the provisions of the Factories Act, 1948 and applicable rules. Health surveillance during the year FY26 is as below. **On roll: 6296** **Associate:8093** **Contractor: 10509** Health surveillance report over last three years is attached as **Annexure-XIV.**
vii	Water quality Monitoring and Preservation	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon.

		besides recharging the ground water table.	In addition, under its community-based rainwater harvesting and water conservation programme, the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, improved groundwater recharge, increased water availability.
vii	Miscellaneous	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	All environmental protection measures and pollution control systems envisaged in the EIA/EMP Report have been implemented and are being operated effectively. The Company continues to undertake regular monitoring and maintenance of these facilities to ensure compliance with applicable environmental norms and to minimize environmental impacts arising from plant operations. In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various Community Development and Socio-Economic Development Programmes in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure. • Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular free health camps in association

			with the District Administration and reputed healthcare institutions are being organized. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages. The detailed CSR activities undertaken since acquisition are **as Annexure- VI.**
ix	Miscellaneous	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry and Environment, Forest and Climate Change (MOEFCC) as well as the state Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	The funds allocated for installation, operation, and maintenance of pollution control equipment, as well as for implementation of various environmental protection measures, have been judiciously and effectively utilized for the intended purpose. Rs 498. 5cr has been incurred towards environmental protection measures. These investments have facilitated compliance with the environmental safeguards and conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) and the Odisha State Pollution Control Board (OSPCB). The Company maintains a robust system for planning, monitoring, and reviewing environmental expenditures to ensure timely implementation of pollution control and environmental management measures. It is hereby confirmed that the funds earmarked for environmental protection activities have been utilized exclusively for environmental infrastructure, pollution control systems, monitoring facilities, resource conservation initiatives, and other related environmental management measures. Further, the Company ensures that no portion of the funds allocated for environmental protection and compliance is diverted for any other purpose. Periodic reviews and internal controls are in place to monitor the utilization of these funds

			and to ensure continued compliance with statutory requirements and environmental commitments
x	Statutory Compliance	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be out on the web site of the company by the proponent.	Information regarding issue of environmental clearance by the MoEF&CC was published in the vernacular language and English.
xi	Statutory Compliance	The project proponent shall upload 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 the MOEFCC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, PM_{10},SO_2,NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Six monthly compliance status report of the stipulated conditions has been uploaded in company's website https://www.bpsl.in/ and same along with monitoring data are regularly being submitted at the Regional Office of MOEF&CC as well at OSPCB/CPCB. Last compliance report submitted vide letter no JJSLL/ENV/26-27/019 dtd. 30.05.2026 For display of the environmental parameters an electronic board has been installed at main gate.
xii	Statutory Compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	Six monthly compliance reports along with monitoring data is being submitted at the Regional Office of MOEF&CC, OSPCB, CPCB regularly. Last compliance report submitted vide letter no JJSLL/ENV/26-27/019 dtd. 30.05.2026
xiii	Statutory Compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the	Environmental statement in Form – V is being submitted at OSPCB and Regional Office of MoEF& CC. Last Environment Statement for the financial year 2024-25 was submitted vide letter no. JSWBPSL/ENV/25-26/05 dtd.

		website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF&CC at Bhubaneswar by e-mail.	22.09.2025.
xiv	Miscellaneous	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate change (MOEF&CC) at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.	Information regarding issue of EC was published in local newspapers and copy of the letter has been submitted at OSPCB, Regional Office of MoEF&CC and at the offices of local Panchayat. The same is given below for kind reference. INDIAN EXPRESS Dt - 24.12.2016  Odia daily - SAMAJ Dt - 24.12.2016 
xv	Miscellaneous	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Bhushan Power and Steel Limited (BPSL) has undergone successful resolution under Insolvency & Bankruptcy Code (IBC), 2016. Due to the financial mismanagement in BPSL by its erstwhile directors and promoters, in July, 2017, an application was filed under Section 7 of IBC Code, 2016 by the Punjab National Bank being CA No. 254 of 2019 titled "'Punjab National Bank v. Bhushan Power and Steel Ltd before the National Company Law Tribunal, Principal Bench, New Delhi ("NCLT") for initiating Corporate Insolvency Resolution Process (CIRP) against BPSL. Thereafter, NCLT vide its order dated 05.09.2019 approved the Resolution Plan submitted by M/s JSW Steel Limited under Section 31 (1) of the IBC, 2016. Subsequently, Ld. National Company Law Appellant Tribunal ("NCLAT"), vide its order dated 17.02.2020 passed in CA No. 957 of 2019 titled "JSW Steel Ltd. v. Mahendar Kumar

			Khandelwal approved the resolution plan submitted by M/s JSW Steel Limited for the acquisition of BPSL under the provisions of the IBC, 2016 and w.e.f. 26.03.2021, M/s JSW Steel Limited took over the operations, management and control of BPSL.

COMPLIANCE TO EC CONDITION
F. No. J11011/40/2009-IA II(I) Dated 02.04.2010 for 2.2 to 2.8 &
F. No. J-11011/40/2009-IA II(I) Dated 17.10.2012 for 2.8 to 3.0

A. Specific Conditions:

S.N	Condition Heading	Condition Detail	Compliance Status
i	Statutory compliance	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Govt. shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar.	All the applicable conditions stipulated by Central & State Government Authorities are being complied with. Half yearly compliance reports along with monitoring data are being submitted at OSPCB / CPCB & MoEF&CC regularly. Last six-monthly compliance report was submitted vide letter no-JJSL/ENV/26-27/019 on dated 31.05.2026
ii	Air Quality Monitoring and Preservation	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided along with the sufficient air pollution control devices viz. Electrostatic precipitator (ESP),gas cleaning plant cyclone, multi-cyclone, wet scrubber, bag house, bag filters etc. shall be provide to keep the emission levels below 50 mg/Nm^3 by installing energy efficient technology. At no time the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Adequate Air Pollution Control (APC) systems have been installed and are in operation across the plant to control emission level < 50 mg/Nm^3. These include Electrostatic Precipitators (ESPs) at the DRI, CPP, Sinter Plant, and Pellet Plant, as well as Bag Filters at the DRI, RMHS, Coke Oven, Lime Plant, SMS, and Blast Furnace (BF) units. Additionally, a Dry Gas Cleaning Plant (GCP) in BF-1 and a Wet Gas Cleaning Plant in BF-2 are operating effectively to control emissions from the blast furnace cast houses. Six online ambient air quality monitoring stations and 50 continuous stack monitoring systems have been installed as per the directive of OSPCB. Further, water sprinkling systems, dry fog systems, and industrial vacuum-cleaning units have been installed and are being operated regularly to control emissions. To strengthen dust suppression measures, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also deployed across the plant premises. These measures collectively ensure effective control of stack and fugitive emissions and help maintain ambient air quality within the prescribed standards.

iii	Air Quality Monitoring and Preservation	As proposed, electrostatic precipitator (ESP) shall be provided to Sinter Plant, WHRB, CFBC, DRI and Slag Cement Plants; bag house to Blast Furnace and ESP & bag filters to by-product recovery type of coke oven to control SPM levels within 50 mg/Nm^3. Fume extraction system with bag filters shall be provided to electric arc furnace and ladle furnace.	Electrostatic Precipitator (ESP) have been installed & operated at Sinter Plant, WHRB, CFBC, DRI and Slag Cement Plants. Further, bag house to Blast Furnace and ESP & bag filters to by-product recovery type of Coke oven have been installed to keep PM levels within 50 mg/Nm^3. Fume extraction system with bag filters are in operation at SMS , EAF and LRF.
iv	Air Quality Monitoring and Preservation	Hot gases from DRI kiln shall be passed through Dust Setting Chamber (DCS) to remove coarse solids and after Burning Chambers (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB).The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.	Hot gases from DRI kiln being passed through The waste gas generated from the DRI kilns first passes through a Dust Settling Chamber (DSC) to remove coarse particulate matter. Subsequently, the gas enters the After Burning Chamber (ABC), where carbon monoxide (CO) is completely combusted. The heat generated during this process is recovered through dedicated Waste Heat Recovery Boilers (WHRBs) for power generation, thereby enhancing energy efficiency and resource conservation. Thereafter, the flue gas is routed through independent Electrostatic Precipitators (ESPs) for effective removal of fine particulate matter before being discharged to the atmosphere through Induced Draft (ID) fans and stacks of adequate height. A total of 12 ESPs have been installed and are operational in the DRI complex, ensuring compliance with the prescribed emission standards.
v	Statutory compliance	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines, Naphthalene scrubbing unit shall be provided to remove residual naphthalene from coke oven gas. Ammonia released in de-sulphuriziton section of coke oven plant shall be catalytically cracked to Nitrogen and Hydrogen. BF top gas shall be cleaned in dust catcher and gas cleaning plant (GCP) comprising of bag filters and used	All efforts are being taken to comply with the prescribed standards and guidelines for the coke oven facilities. • The Coke oven-1 is of Non Recovery type. The hot gas of coke oven is being utilized in the power generation passing through waste heat recovery boilers (WHRB) feeding to two numbers of turbo generators which generates 16 MW power. • The Coke Oven Plant -2 (Recovery type) has been installed with adequate pollution control equipments like Pushing & Charging Emission Control system and Bag filter.

		in furnace of CSP, BF, EAF, sinter plant, lime & dolo plant. Bag filters with adequate stack height shall be provided to lime and dolo plant. Proper and full utilization of coke oven gases in power plant using heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	Stack height has been designed for better dispersion of pollutants. • The By-Product Plant is equipped with a Naphthalene Scrubbing Unit and a Desulphurization Unit for effective removal of residual naphthalene and sulphur compounds from the raw coke oven gas, thereby improving gas quality and minimizing environmental impacts. • The cleaned Coke Oven Gas (COG) is fully recovered and utilized as a fuel in Power Plant and other process within the plant. No untreated coke oven gas is vented to the atmosphere, ensuring efficient resource utilization and reduction in emissions. • The Blast Furnace (BF) Top Gas is cleaned through a Dust Catcher followed by a Gas Cleaning Plant (GCP) to remove suspended particulate matter. The cleaned gas is subsequently utilized as a fuel in various units, including the Compact Strip Plant (CSP) Tunnel Furnace, Sinter Plant, Lime & Dolomite Plant, Steel Melting Shop (SMS), Wire Rod Mill, and Pellet Plant, thereby promoting energy conservation and reducing fossil fuel consumption. • The Lime and Dolomite Plants have been provided with high-efficiency Bag Filters along with stacks of adequate height to control particulate emissions and ensure compliance with the prescribed environmental standards.
vi	Statutory compliance	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E) dated 16th November 2009 shall be followed.	The National Ambient Air quality Emission standards issued by the Ministry vide G.S.R No. 826(E) dated 16th November 2009 are being followed. Monitoring reports for the period Oct'25 to Mar'26 is enclosed as **Annexure-XIII.**
vii	Statutory compliance	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	All the standards prescribed for the coke oven plants are being followed. • In coke oven -1 hot gas is being completely utilized in Waste Heat Recovery Boilers to generate 2x8 MW power.

			• In Coke Oven-2 De dusting and Pushing and Charging emission control system have been installed . • The cleaned Coke Oven Gas (COG) is fully recovered and utilized as a fuel in Power Plant, in coke oven battery heating and other processes within the plant.
viii	Air Quality Monitoring and Preservation	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Bag filters shall be provided at coal mill, intermediate bin/separation building, product storage silo, day bin, iron ore circuit, load out, cooler discharge to control fugitive dust emission. Dust suppression system with water sprinklers shall be provided at raw material stock piles and loading/unloading point. Dust extraction system with bag filters shall be provided at all raw material transfer points, crusher house, junction towers and feed points. All conveyors shall be completely covered by GI sheets. All the roads shall be asphalted to control dust emissions.	Adequate Air Pollution Control (APC) systems have been installed and are in operation across the plant to control particulate and gaseous emissions. These include Electrostatic Precipitators (ESPs) at the DRI, CPP, Sinter Plant, and Pellet Plant, as well as Bag Filters at the DRI, RMHS, Coke Oven, Lime Plant, SMS, and Blast Furnace (BF) units. Additionally, a Dry Gas Cleaning Plant (GCP) in BF-1 and a Wet Gas Cleaning Plant in BF-2 are operating effectively to control dust emissions from the blast furnace cast houses. All internal roads have been concreted and conveyors have been completely covered by GI sheets. Further, water sprinkling systems, dry fog systems, and industrial vacuum-cleaning units have been installed and are being operated regularly to control fugitive dust emissions. To strengthen dust suppression measures, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also deployed across the plant premises. These measures collectively ensure effective control of stack and fugitive emissions and help maintain ambient air quality within the prescribed standards.
ix	Air Quality Monitoring and Preservation	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/code of practice issued by it CPCB shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R 414(E) dated 30th May.2008 shall be followed.	Adequate air pollution control systems, including Bag Filters, Electrostatic Precipitators (ESPs), and water sprinkling arrangements, have been installed and are being operated effectively to control particulate and gaseous emissions, including secondary fugitive emissions, within the latest permissible limits prescribed by the Ministry of Environment, Forest and Climate Change (MoEF&CC). The performance of these pollution control systems is regularly monitored to ensure compliance with the applicable environmental

			standards. All relevant guidelines and codes of practice issued by the Central Pollution Control Board (CPCB) are being strictly followed. Further, the plant is complying with the revised environmental standards for sponge iron plants notified by the Ministry vide G.S.R. 414(E) dated 30th May, 2008, and all necessary measures have been implemented to maintain emissions within the prescribed norms.
x	Air Quality Monitoring and Preservation	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	• Vehicles carrying raw materials and finished products are being covered with tarpaulin. • Water sprinkling arrangement has been made at raw material handling areas to control dust emission during loading and unloading raw materials. • Mobile water sprinkling tankers have been engaged for regular water sprinkling on raw material transporting roads to control fugitive dust. • Six numbers of Wheel washing system have already been installed to clean the vehicle wheel and control the fugitive dust on road.
xi.	Water Quality Monitoring and Preservation	Total water requirement from Hirakud Dam shall not exceed 5,500 m^3/hr although 'Permission' for the drawl of 10,194 m^3/hr.water is accorded by the Water Resource Department. Govt. of Orissa vide letter dated 17th June, 2003. Efforts shall further be made to use maximum water from the rain water harvesting sources. As proposed, modified wet quenching system shall be provided to coke oven plant. Air cooled condensers and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent shall be treated and used for ash handing, dust suppression and green belt development. No effluent shall be discharged and 'Zero' discharge shall be adopted. Sanitary sewages shall be treated in septic tank	The total water requirement at present is 64855 m3/day against the permission 110250 m3/day. All the wastewater treated has been recycled & reused. A comprehensive Zero Liquid Discharge (ZLD) system has been implemented to ensure that no industrial effluent is discharged outside the plant boundary. Additional water conservation and reuse initiatives • To strengthen ZLD implementation, the following measures have been adopted: • Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency. • Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5). • Utilization of STP treated water in cooling tower make-up.

		followed by soak pit and used for green belt development.	• Use of wastewater treated for road cleaning, dust suppression, and horticulture. • Reuse of treated wastewater for greenbelt irrigation and plantation maintenance. • Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption. Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.
xii	Water Quality Monitoring and Preservation	Effluent treatment plant (ETP) shall be provided for the treatment of Phenolic effluent from coke oven plant and the treated water shall be used for sprinkling at coal stockyard. Clarifier, sludge pond and filter press shall be provided in raw water treatment plant. DM plant water shall be neutralized in neutralization pit and the treated water shall be used for ash handling. Process wastewater shall be recycled /reused in the plant. Cooling tower blow down shall be in the plant for dust suppression and slag granulation, pig casting machine etc. Provision of separate drains for the process and storm water shall be kept.	The phenolic effluent generated from the Coke Oven By-Product Plant is treated in the Biological Effluent Treatment Plant (BETP). The treated effluent is subsequently reused for hot coke quenching. Neutralization pits have been provided in the Demineralization (DM) Plant for treatment and neutralization of effluents. The treated water is reused in ash silos for ash conditioning. Clarifier and sludge pond have been provided at the Raw Water Treatment Plant (RWTP) for treatment of raw water. The sludge generated from the treatment process is further routed to the Wastewater Treatment Plant (WWTP) equipped with a filter press for efficient dewatering and safe handling. Process effluents generated from various units, are treated in dedicated Effluent Treatment Plants (ETPs). The treated wastewater is reused for dust suppression and greenbelt development, slag quenching, ash conditioning. Cooling towers blow down being passed through WWTP and reused for dust suppression and slag granulation, pig casting machine etc.
xiii	Water Quality Monitoring and Preservation	All the wastewater from the coke oven plant containing, cyanide, phenol and COD etc. Shall be properly treated in the BOD plant. Continuous monitoring of Total Organic compounds (TOC) including cyanide, phenol and COD	All wastewater generated from the Coke Oven By-Product Plant is treated in the Biological Effluent Treatment Plant (BETP). The treated effluent is subsequently reused for hot coke quenching, ensuring effective wastewater recycling and conservation of freshwater resources.

		etc. shall be done at the outlet of ETP (BOD plant) and recovery of products like tar, ammonia, naphthalene etc shall be ensured.	An Online Continuous Effluent Monitoring System (OCEMS) has been installed at the BETP to continuously monitor key treated effluent quality parameters, including pH, COD, BOD, and Total Suspended Solids (TSS), thereby ensuring compliance with prescribed regulatory standards. In addition to online monitoring, periodic manual analysis is carried out through an NABL-accredited laboratory for parameters such as pH, COD, BOD, TSS, Phenol, Cyanide, Ammonia, Oil & Grease (O&G), Total Dissolved Solids (TDS), Iron (Fe), and Total Chromium, in accordance with the conditions stipulated under the Consent to Operate (CTO). Coke Oven–1, being a non-recovery type coke oven, utilizes water primarily for coke quenching. The quenching water is collected in settling tanks, where suspended solids are allowed to settle, and the clarified water is recycled back into the quenching process. This closed-loop system minimizes wastewater generation and promotes efficient water utilization. The Coke Oven -1 is non-recovery type. Water is only used for quenching which is collected in settling tanks and reused in the process of quenching.
xiv	Water Quality Monitoring and Preservation	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. In addition, under its community-based rainwater harvesting and water conservation programme, the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, improved groundwater recharge.
xv	Statutory compliance	'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	A comprehensive Zero Liquid Discharge (ZLD) system has implemented to ensure that no industrial effluent is discharged outside the plant boundary. Additional water conservation and reuse initiatives

			• To strengthen ZLD implementation, the following measures have been adopted: • Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency. • Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5). • Utilization of STP treated water in cooling tower make-up. • Use of wastewater treated for road cleaning, dust suppression, and horticulture. • Reuse of treated wastewater for greenbelt irrigation and plantation maintenance. • Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption. Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.
xvi	Statutory compliance	The water consumption shall not exceed 16 m^3/Ton of Steel as per prescribed standard.	Consumption of water in steel making areas is maintained below the prescribed standard. In the FY 2025-26 the water consumption is 2.14 M^3/ton of crude steel.
xvii	Water Quality Monitoring and Preservation	Regular monitoring of influent and effluent surface, sub surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution control Board or described under the E (P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional officer at Bhubaneswar, OPCB and CPCB	Monitoring of treated effluent, treated wastewater, and groundwater is being carried out regularly as per the stipulated conditions and applicable regulatory requirements. The groundwater quality monitoring reports of the surrounding villages are enclosed as Annexure–VII. The analysis reports of treated effluent from the ETP outlet, treated wastewater from WWTP-1, WWTP-2, and WWTP-3 outlets, and the outlet of the Biological Effluent Treatment Plant (BETP) for the period April 2022 to September 2022 are enclosed as **Annexure–VIII.** Six-monthly environmental compliance reports along with environmental monitoring data are being regularly submitted to MoEF&CC, OSPCB, and CPCB.

			The last Six-Monthly Compliance Report along with monitoring reports was submitted to the concerned authorities vide Letter No. JJSL/ENV/26-27/019 dated 31.05.2026.
xviii	Waste Management	Iron ore fines, process dust, and mill scales shall be recycled to sinter plant to produce sinter. Sludge and slag from electric arc furnace (EAF) shall also be recycled in the sinter plant. Scrap shall be reused in the steel melting shop (SMS).	Iron ore fines, process flue dust, mill scales and EAF slag generating in the plant is being recycled through sinter plant & pellet plant. Iron ore fines are consumed for making pellets which is further used in DRI Kilns. All the scraps are being recycled in the Steel melting shop.
xix	Waste Management	All the coal fines, char from DRI plant and washery rejects shall be utilized in AFBC boiler of power plant and no char shall be used for briquette making or disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be granulated and used in manufacturing. Portland slag cement (PSC) in the proposed cement plant. Scrap shall be used in steel melting shop (SMS) EAF & SMS slag kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass kiln accretions shall be properly disposed off in environment friendly manner. Tar sludge from coke oven decanter, waste oil and oil sludge shall be properly disposed as per Hazardous waste (Management & Handling) Rules, 1989 as subsequently amended.	Granulated Slag from Blast Furnace has been sold to cement manufacturers. Electric Arc Furnace (EAF) slag is processed through crushing and segregation; high iron-bearing fractions are recycled back into the EAF; non- iron bearing fractions are utilized in the sinter plant and are used for low-lying area filling and road construction within the stipulated timeframe. Scrap from SMS and other areas being recycled to a maximum extent. Bag filter Dust from DRI, Pellet and SMS being recycled in sinter making. 100% char generated from DRI has been reused in Captive Power Plant for energy recovery. Ash (Fly and Bottom) from AFBC, CFBC, and CPP is being fully utilized through various sustainable manners, including supply to brick manufacturing units, utilization in road development projects, and dispatch to cement plants. Any balance quantity is being used for reclamation of low-lying areas after obtaining.

xx	Waste Management	All the slag shall be used for land filling inside the plant or used as building material only after passing through Toxic chemical Leachability Potential (TCLP) test. Toxic slag shall be disposed in secured landfill as CPCB guidelines. Otherwise hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.	Electric Arc Furnace (EAF) slag generated from the steelmaking process is subjected to crushing, screening, and segregation. The iron-rich fraction recovered from the slag is recycled back into the EAF for resource recovery and improved metal yield. The non-ferrous/non-metallic fraction is utilized in the Sinter Plant and also used for road construction and filling of low-lying areas, in accordance with applicable regulatory guidelines and approved utilization practices. Toxic chemical Leachability Potential (TCLP) test has been carried out periodically through NABL Laboratory. Solid Waste TCLP report is attached as **Annexure XV.** Any hazardous waste that cannot be recycled or utilized within the process is managed in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules and CPCB guidelines. Such wastes are either sent to authorized recyclers/reprocessors or disposed of in an authorized secured landfill facility, ensuring environmentally sound management and regulatory compliance.
xxi	Waste Management	Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and subsequent amendment in 2003 & 2010. All the fly ash and BF slag shall be fully utilized in manufacturing of Pozollona Portland Cement (PPC) and Pozollona Slag Cement (PSC)	Ash from DRI and CPP is being fully utilized through various sustainable manners, including supply to brick manufacturing units, utilization in road development projects, and dispatch to cement plants. Any balance quantity is being used for reclamation of low-lying areas after obtaining.
xxii	Waste Management	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic, metal content in the waste material and the composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Continuous efforts are being undertaken to achieve 100% recycling of solid waste generated within the plant. Solid Waste analysis report regarding toxic, metal content in the waste material and the composition, end use of solid/hazardous waste being submitted along with annual returns of hazardous waste.

xxiii	Waste Management	A time bound action plan shall be submitted for solid waste, its proper utilization and disposal.	The solid waste generated from various plant units are being recycled within the plant. Continuous efforts are being undertaken to achieve 100% recycling of solid waste generated within the plant.
xxiv	Risk Mitigation and Disaster Management	A Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional at Bhubaneswar OPCB and CPCB with in 3 months of issue of environment clearance letter.	A comprehensive **Risk Assessment and Disaster Management Plan (DMP)** along with mitigation measures has been prepared and implemented for the project covering various operational and emergency scenarios. The plan includes identification of potential risks, preventive measures, emergency response procedures, resource deployment, communication systems, and evacuation arrangements to minimize environmental and safety impacts. The provisions of the Disaster Management Plan (Onsite Emergency Plan) are being periodically reviewed, and mock drills are conducted to assess preparedness
xxv	Greenbelt	As proposed, green belt shall be developed in 430 acres (33%) out of total 1300 acres in and around the plant as per the CPCB guidelines in consultation with DFO.	Development of 33% greenbelt is under progress in and around the plant complex, both within and outside the premises, through plantation of native species in line with CPCB guidelines. As of March 2026, approximately 33% of the total area (including both inside and outside the plant) has been covered under greenbelt development.
xxvi	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	Recommendations made in the Charter of Corporate Responsibility for Environment Protection (CREP) are being implemented as per the guidelines laid for Integrated Iron & Steel Sector. The CREP compliance is enclosed as **Annexure-XXI.**
xxvii	Statutory compliance	Rehabilitation and Resettlement Plan for the project affected population including tribal shall be implemented as per the policy of the State Govt. in consultation with the State Govt. of Orissa Compensation paid in any case shall not be less than the norms	Rehabilitation and resettlement plan for displacement of families has already been implemented as per the policy of Government of Odisha.

		prescribed under the National Resettlement and Rehabilitation Policy,2007.	
xxviii	Miscellaneous	At least 5% of the total cost of the project shall be earmarked towards the corporate social responsibility and item wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various **Community Development and Socio-Economic Development Programmes** in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure. • Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular **free health camps** in association with the District Administration and reputed healthcare institutions are being organised. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages. The detailed CSR activities undertaken since acquisition are attached as **Annexure-VI.**
xxix	Human Health Environment	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc	The Company has established a dedicated labour colony to provide safe and adequate accommodation for all temporary construction workers engaged at the project site. Necessary welfare amenities, including toilets, washrooms, potable drinking water facilities, sanitation arrangements, and other basic

			infrastructure, have been provided and are being maintained in the labour colony to ensure hygienic living conditions for the workforce. In addition, free medical facilities are being provided to all workers through the Company's Occupational Health Centre (OHC). The OHC is equipped to provide routine health check-ups, first-aid treatment, emergency medical assistance, and occupational health services to employees and contract workers. The Company continues to ensure compliance with applicable labour welfare and occupational health requirements during the construction and operational phases of the project.

B. General Conditions:

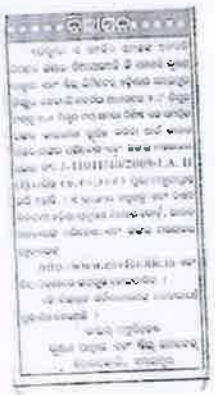
No	Condition Heading	Condition detail	Compliance Status
i	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Orissa pollution Control Board (OPCB) and the State Govt.	All applicable stipulations made by Odisha State Pollution Control Board, Odisha and State Government are being complied.
ii	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests.	No expansion or modification will be carried out without prior approval of Ministry of Environment Forest and Climate Change.
iii	Air Quality Monitoring and Preservation	The gaseous emissions from various process unit shall conform to the load/mass based standards notified by this Ministry on 19th May 1993 and standards prescribed from time to time. The Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Gaseous and particulate emissions generated from various processes are maintained within the standards prescribed by the State Pollution Control Board. The load/mass-based emission levels are well within the stipulated standard of.3 kg per tonne of coke produced, as prescribed under the Ministry's notification dated 19 May 1993 and its subsequent amendments, including the amendment dated 31.03.2012. Further, the by-product coke oven gas (COG) generated from the coke oven plant is efficiently utilized, with a portion being consumed for oven heating requirements and the remaining quantity being reused for captive power generation. Consequently, there is no venting or wastage of the by-product gas, ensuring optimum resource utilization and environmental compliance.

iv	Air Quality Monitoring and Preservation	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO_2 and NOx are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	Six Continuous Ambient Air Quality Monitoring Stations have been installed in down wind direction as well as where max ground level concentration were anticipated by consultant consultation with the regional office OSPCB. Ambient Air Quality and Stack emissions are being regularly submitted to the Regional Office of MoEF&CC as well as OSPCB/CPCB latest half yearly compliance has been submitted vide letter JJSL/ENV/26-27/019 dtd.30.05.26. The report is attached as **Annexure XIII.**
v	Air Quality Monitoring and Preservation	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measure like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to control fugitive emissions.	Adequate Air Pollution Control (APC) systems have been installed and are in operation across the plant to control particulate and gaseous emissions. These include Electrostatic Precipitators (ESPs) at the DRI, CPP, Sinter Plant, and Pellet Plant, as well as Bag Filters at the DRI, RMHS, Coke Oven, Lime Plant, SMS, and Blast Furnace (BF) units. Additionally, a Dry Gas Cleaning Plant (GCP) in BF-1 and a Wet Gas Cleaning Plant in BF-2 are operating effectively to control dust emissions from the blast furnace cast houses. Further, fugitive dust emissions are effectively controlled through a combination of preventive and mitigative measures, including concreting of internal roads, installation of water sprinkling and dry fog suppression systems, and deployment of industrial vacuum-cleaning units. To strengthen dust suppression measures, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also deployed across the plant premises.
vi	Water Quality Monitoring and Preservation	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated waste water shall be utilized for plantation purpose.	Industrial waste Water has been collected and treated to confirm the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water is being used inside the plant in various applications such as ash conditioning, sprinkling, horticulture, firefighting etc.

			Analysis report of treated Effluent of effluent Treatment Plant (ETP), BETP & wastewater of WWTP-1, WWTP-2 WWTP-3 for the period of Oct '25 to Mar'26 is enclosed as **Annexure-II, III & IV.**
vii	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including accosting hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules,1989 viz.75dB(A)(day time) and 70dB(A)(night time)	The overall noise levels within the plant premises and surrounding areas are being maintained well within the prescribed standards. Adequate noise control measures, such as installation of acoustic hoods, silencers, acoustic enclosures, and regular maintenance of equipment, have been implemented to minimize noise generation at source. Further, as a proactive occupational health and safety measure, no employee is deployed continuously for the entire working shift in high-noise areas. Personnel required to enter such areas are provided with and mandated to use appropriate hearing protection devices, including earplugs and earmuffs. Job rotation practices are also followed, wherever applicable, to minimize noise exposure. The results of work-zone noise monitoring and ambient noise monitoring conducted during the period **October 2025 to March 2026** indicate compliance with the applicable standards. The detailed monitoring reports are enclosed as **Annexure-V.**
viii	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An Occupational Health Centre (OHC) has been established within the plant premises to provide comprehensive healthcare services to employees and contract workers. The OHC conducts pre-employment and periodic medical examinations for all workers, including contract labourers, to monitor occupational health and ensure fitness for assigned duties. All statutory records, health surveillance data, and medical documents are maintained in accordance with the provisions of the Factories Act, 1948 and applicable rules.

			To address medical emergencies, the plant is equipped with Cardiopulmonary Resuscitation (CPR) facilities, emergency medical equipment, and medicinal oxygen cylinders. These facilities ensure prompt first-aid response and emergency care whenever required, thereby strengthening the overall occupational health and safety management system of the plant. The health surveillance during the year FY26 is as below. **On roll: 6296** **Associate:8093** **Contractor: 10509**
ix	Miscellaneous	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. In addition, under its community-based rainwater harvesting and water conservation programme, the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, improved groundwater recharge, increased water availability.
x	Corporate Environmental Responsibility	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.	All environmental protection measures and pollution control systems envisaged in the **EIA/EMP Report** have been implemented and are being operated effectively. The Company continues to undertake regular monitoring and maintenance of these facilities to ensure compliance with applicable environmental norms and to minimize environmental impacts arising from plant operations. In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various **Community Development and Socio-Economic Development Programmes** in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure.

			• Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular **free health camps** in association with the District Administration and reputed healthcare institutions are being organised. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages.
xi	Miscellaneous	As proposed. Rs.130.00 Crores and 14.00 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures .All the funds allocated shall be judiciously utilized to implement the conditions stipulated by the Ministry of environment and Forests as well as per the states Government. The funds so provided shall not be diverted for any other purpose.	The funds allocated for installation, operation, and maintenance of pollution control equipment, as well as for implementation of various environmental protection measures, have been judiciously and effectively utilized for the intended purpose. Rs 498.28 Cr has been incurred towards environmental protection measures. These investments have facilitated compliance with the environmental safeguards and conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) and the Odisha State Pollution Control Board (OSPCB). The Company maintains a robust system for planning, monitoring, and reviewing environmental expenditures to ensure timely implementation of pollution control and

			environmental management measures. It is hereby confirmed that the funds earmarked for environmental protection activities have been utilized exclusively for environmental infrastructure, pollution control systems, monitoring facilities, resource conservation initiatives, and other related environmental management measures. Further, the Company ensures that no portion of the funds allocated for environmental protection and compliance is diverted for any other purpose. Periodic reviews and internal controls are in place to monitor the utilization of these funds and to ensure continued compliance with statutory requirements and environmental commitments.
xii	Statutory compliance	The Regional office of this Ministry at Bhubaneswar/CPCB/OSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance reports along with monitored data and statistical interpretation are regularly submitted at the Regional Office of MoEF & CC as well as at OSPCB/CPCB. The last six-monthly report is attached as **Annexure-XVII.**
xiii	Statutory compliance	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at website of the Ministry of Environment and forests at http:/envfor.nic.in. This shall be advertised within seven days from the date if issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same shall be forwarded to the Regional office at Bhubaneswar.	Information regarding issue of environmental clearance by the MoEF&CC was published in the vernacular language and English.The publication Copy enclosed as below.  
xiv	Statutory compliance	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any from whom suggestions / representations, if any,	Information regarding issue of environmental clearance by the ministry was given at local panchayat.

		were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	
xv	Statutory compliance	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitoring data on their web site and shall update the same periodically. It shall simultaneously be sent to the Regional office of the MOEF, the respective Zonal Office of CPCB and the OPCB. The criteria pollutant levels namely, SPM, RSPM, SO_2, NO_x (ambient levels as well as sack emissions) or critical sectoral parameters like total Organic Compounds (TOC) including cyanide, phenol and COD etc. indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain.	Six monthly compliance status report of the stipulated conditions has been uploaded in company's website https://www.bpsl.in/ and same along with monitoring data are regularly being submitted at the Regional Office of MOEF&CC as well at OSPCB/CPCB. Last compliance report submitted vide letter no JJSLL/ENV/26-27/019 datd. 30.05.2026 For display of the environmental parameters an electronic board has been installed at the main gate.
xvi	Statutory compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MOEF, the respective Zonal office of CPCB and the SPCB.	Six monthly compliance reports along with monitoring data is being submitted at the Regional Office of MOEF&CC, OSPCB, CPCB regularly. Last compliance report submitted vide letter no JJSLL/ENV/26-27/019 datd. 30.05.2026
xvii	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned state pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional offices of the MOEF by e-mail.	Environmental statement in Form – V is being submitted at OSPCB and Regional Office of MoEF& CC. Last Environment Statement for the financial year 2024-25 was submitted vide letter no. JSWBPSL/ENV/25-26/05 dtd. 22.09.2025.

xviii	Miscellaneous	Project authorities shall inform the Regional office as well the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Bhushan Power and Steel Limited (BPSL) has undergone successful resolution under Insolvency & Bankruptcy Code (IBC), 2016. Due to the financial mismanagement in BPSL by its erstwhile directors and promoters, in July, 2017, an application was filed under Section 7 of IBC Code, 2016 by the Punjab National Bank being CA No. 254 of 2019 titled "'Punjab National Bank v. Bhushan Power and Steel Ltd before the National Company Law Tribunal, Principal Bench, New Delhi ("NCLT") for initiating Corporate Insolvency Resolution Process (CIRP) against BPSL. Thereafter, NCLT vide its order dated 05.09.2019 approved the Resolution Plan submitted by M/s JSW Steel Limited under Section 31 (1) of the IBC, 2016. Subsequently, Ld. National Company Law Appellant Tribunal ("NCLAT"), vide its order dated 17.02.2020 passed in CA No. 957 of 2019 titled "JSW Steel Ltd. v. Mahendar Kumar Khandelwal approved the resolution plan submitted by M/s JSW Steel Limited for the acquisition of BPSL under the provisions of the IBC, 2016 and w.e.f. 26.03.2021, M/s JSW Steel Limited took over the operations, management and control of BPSL.

COMPLIANCE TO EC CONDITIONS

FNo. J-11011/372/2006-IA II (I) Dated-29.03.2007 for 1.2 to 2.2 MTPA

A. Specific Condition:

No	Condition Heading	Condition Detail	Compliance status
i	Air Quality Monitoring and Preservation	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19thMay, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters, keeping in view in the nature of the industry and its size and location. At no time shall the emission level go beyond the prescribed standards. On-line continuous stack emission monitoring for all the major stacks will be carried out and reports submitted to the OSPCB & CPCB. The emission levels from all the sources shall be kept below 100 mg/Nm^3.Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Gaseous and particulate emissions generated from various processes are maintained within the standards prescribed by the State Pollution Control Board. The load/mass-based emission levels are well within the stipulated standard of **3 kg per tonne of coke produced**, as prescribed under the Ministry's notification dated **19 May 1993** and its subsequent amendments, including the amendment dated **31.03.2012**. Further, the by-product coke oven gas (COG) generated from the coke oven plant is efficiently utilized, with a portion being consumed for oven heating requirements and the remaining quantity being reused for captive power generation. Consequently, there is no venting or wastage of the by-product gas, ensuring optimum resource utilization and environmental compliance. Power requirements are primarily met through the captive power plant. In the event of a power failure, the Diesel Generator (DG) sets are operated to ensure an uninterrupted power supply to critical systems and pollution control equipment.
ii	Statutory compliance	Continuous online ambient air quality monitoring stations shall be set-up at three locations around the project site and reports submitted to the OSPCB & CPCB.	Six numbers of Continuous Ambient Air Quality Monitoring Stations have been installed in consultation with the regional office OSPCB. The report is being regularly submitted to the Regional Office of MoEF&CC as well as OSPCB/CPCB latest half yearly compliance has been submitted on 30.05.26.
iii	Air Quality Monitoring and Preservation	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression system shall be provided to coal/raw material stockpiles. Bag house shall be provided to BF-dry cleaning system. Bag filters shall be provided to fume extraction system, RMP Crusher etc. ESP shall be provided to Pellet Plant, DRI Kilns, BF stock house, Sinter Plant, DRI – WHRB Stacks, AFBC, CFBC, Lime Plant Kiln, Dolo Plant Kiln and Ferro-Alloy Plant. Dry fog dust suppression system	Adequate Air Pollution Control (APC) systems have been installed and are in operation across the plant to control fugitive emission. These include Electrostatic Precipitators (ESPs) at the DRI, CPP, Sinter Plant, and Pellet Plant, as well as Bag Filters at the DRI, RMHS, Coke Oven, Lime Plant, SMS, and Blast Furnace (BF) units. Additionally, a Dry Gas Cleaning Plant (GCP) in BF-1 and a Wet Gas Cleaning Plant in BF-2 are operating effectively to control dust emissions from the blast furnace cast houses.

		shall be provided to BF cast house. Further, specific measures like water sprinkling shall be carried out at the coal yard, wagon tippler and truck tippler etc. Fugitive emissions shall be controlled, regularly monitored and records maintained.	Further, water sprinkling systems, dry fog systems, and industrial vacuum cleaning units have been installed and are being operated regularly to control fugitive dust emissions. To strengthen dust suppression measures, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also deployed across the plant premises.
iv	Water Quality Monitoring and Preservation	Total requirement of the water from Hirakud Reservoir shall not exceed 93,252 m^3/day as per the permission accorded by the Department of Water resources, Govt. of Orissa. All the treated wastewater shall be recycled & reuse either in the premises or for green belt development. No effluent shall be discharged outside the premises and "Zero" discharge shall be adopted. Domestic wastewater shall be treated in septic tank followed by soak pits.	The total water requirement at present is 64855 m3/day against the permission 110250 m3/day. All the wastewater treated has been recycled & reused. A comprehensive Zero Liquid Discharge (ZLD) system has been implemented to ensure that no industrial effluent is discharged outside the plant boundary. Additional water conservation and reuse initiatives • To strengthen ZLD implementation, the following measures have been adopted: • Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency. • Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5). • Utilization of STP treated water in cooling tower make-up. • Use of wastewater treated for road cleaning, dust suppression, and horticulture. • Reuse of treated wastewater for greenbelt irrigation and plantation maintenance. • Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption. Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.

v	Water Quality Monitoring and Preservation	Ground water monitoring around the solid waste disposal site/ secure landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at , CPCB and OSPCB.	Ground water monitoring around the solid waste disposal area has been carried out periodically. The monitoring report has been submitted to Ministry's Regional Office at, CPCB and OSPCB. Report of ground water analysis is enclosed as **Annexure -VIII.**
vi	Waste Management	Slag from BF shall be granulated and sold to cement plants. SMS slag from IF, EAF and LF shall be used for internal road making and filling low lying areas. Scrap from SMS shall be recycled in the steel plant. Scale and debris from CSP and rolling mill shall be reused in the sinter plant itself. Dust from DRI, Pellet Plant and SMS shall be recycled to sinter plant. No char shall be disposed off and efforts shall be made to use in AFBC boiler.	Granulated Slag from Blast Furnace has been sold to cement manufacturers. Electric Arc Furnace (EAF) slag is processed through crushing and segregation; high iron-bearing fractions are recycled back into the EAF; non- iron bearing fractions are utilized in the sinter plant and are used for low-lying area filling and road construction as per the guideline. Scrap from SMS and other areas being recycled to a maximum extent. Bag filter Dust from DRI, Pellet and SMS being recycled in sinter making. 100% char generated from DRI has been reused in Captive Power Plant for energy recovery.
vii	Waste Management	Possibilities shall be explored regarding use of Fly Ash from AFBC, CFBC boilers of CPP by cement and brick-manufacturing units in the nearby areas. Ash shall be utilized as per the 10 years action plan submitted. Bottom Ash shall be disposed off in a suitable designated landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer.	Ash (Fly and Bottom) from AFBC, CFBC, and CPP is being fully utilized through various sustainable manners, including supply to brick manufacturing units, utilization in road development projects, and dispatch to cement plants. Any balance quantity is being used for reclamation of low-lying areas after obtaining.
viii	Water Quality Monitoring and Preservation	The company shall develop rainwater harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. In addition, under community-based rainwater harvesting and water conservation programme, 32 water bodies (pond) have been excavated and renovated in the surrounding villages. These interventions have enhanced rainwater storage capacity, improved groundwater recharge.

ix	Greenbelt	Green belt of adequate width and density shall be provided to mitigate the effects of fugitive emission in at least 462 acres out of total 1,721 acres of land in and around the plant as per the CPCB guidelines in consultation with DFO.	Development of 33% greenbelt is under progress in and around the plant complex, both within and outside the premises, through plantation of native species in line with CPCB guidelines. As of March 2026, approximately 33% of the total area (including both inside and outside the plant) has been covered under greenbelt development.
x	Human Health Environment	Occupational Health Surveillance of the worker shall be done on a regular basis and records maintained as per the Factories Act. The company shall install CO detectors to detect leakage of CO from the BF. Cardiopulmonary Resuscitation facilities and mediated Oxygen cylinder facilities shall be provided.	An Occupational Health Centre (OHC) has been established within the plant premises to provide comprehensive healthcare services to employees and contract workers. The OHC conducts pre-employment and periodic medical examinations for all workers, including contract labourers, to monitor occupational health and ensure fitness for assigned duties. All statutory records, health surveillance data, and medical documents are maintained in accordance with the provisions of the Factories Act, 1948 and applicable rules. CO detectors have been installed to detect leakage of CO from the BF. To address medical emergencies, the plant is equipped with Cardiopulmonary Resuscitation (CPR) facilities, emergency medical equipment, and medicinal oxygen cylinders.
xi	Corporate Environmental Responsibility	All the recommendation of the Charter of Corporate Responsibility for Environmental Protection (CREP) issued for the integrated Iron and Steel Sectors shall be implemented.	Recommendations made in the Charter of Corporate Responsibility for Environment Protection (CREP) has been implemented as per the guidelines laid for Integrated Iron & Steel Sector. The CREP compliance report is attached as **Annexure-XXI.**
B	**General Conditions:**		
S.N	**Condition Heading**	**Condition Detail**	**Compliance Status**
i	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Orissa pollution Control Board (OSPCB) and the State Govt.	All applicable stipulations made by Odisha State Pollution Control Board, Odisha and State Government are being complied.
ii	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests.	No expansion or modification has been carried out without prior approval of Ministry of Environment Forest and Climate Change.

iii	Air Quality Monitoring and Preservation	At least four ambient air quality monitoring stations shall be established in the down wind direction, as well as where max. Ground level concentrations of SPM, SO2 & NOx are anticipated in consultation with OSPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office and the OSPCB/Central Pollution Control Board once in six months.	Six Continuous Ambient Air Quality Monitoring Stations have been installed in down wind direction as well as where max ground level concentration were anticipated by consultant consultation with the regional office OSPCB. Ambient Air Quality and Stack emissions are being regularly submitted to the Regional Office of MoEF&CC as well as OSPCB/CPCB latest half yearly compliance has been submitted vide letter JJSL/ENV/26-27/019 dtd.30.05.26.
IV	Water Quality Monitoring and Preservation	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR (E) dated 19^{lh} May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	Industrial wastewater has been collected and treated to confirm the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater is being reused inside the plant in various applications such as ash conditioning, sprinkling, horticulture, firefighting etc. Analysis report of treated Effluent of effluent Treatment Plant (ETP), BETP & wastewater of WWTP-1, WWTP-2 WWTP-3 for the period of Oct '25 to Mar'26 is enclosed as **Annexure- II,III & IV.**
v	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules ,1989 viz 75 dBA (daytime) and 70 dBA (nighttime)	The overall noise levels within the plant premises and surrounding areas are being maintained well within the prescribed standards. Adequate noise control measures, such as installation of acoustic hoods, silencers, acoustic enclosures, and regular maintenance of equipment, have been implemented to minimize noise generation at source. Further, as a proactive occupational health and safety measure, no employee is deployed continuously for the entire working shift in high-noise areas. The results of work-zone noise monitoring and ambient noise monitoring conducted during the period **October 2025 to March 2026** indicate compliance with the applicable standards. The detailed monitoring reports are enclosed as **Annexure-V.**

vi	Corporate Environmental Responsibility	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and healthcare etc.	All environmental protection measures and pollution control systems envisaged in the **EIA/EMP Report** have been implemented and are being operated effectively. The Company continues to undertake regular monitoring and maintenance of these facilities to ensure compliance with applicable environmental norms and to minimize environmental impacts arising from plant operations. In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various **Community Development and Socio-Economic Development Programmes** in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure. • Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular **free health camps** in association with the District Administration and reputed healthcare institutions are being organised. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages. The detailed CSR activities undertaken since acquisition are attached as **Annexure-VI.** The commitment made under CER is under progress.

vii	Statutory compliance	As mentioned in the EIA/EMP, Rs. 440.00 Crores and Rs. 55.0 crores earmarked towards the capital cost and recurring cost/annum for environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as State Government. The funds so provided shall not be diverted for any other purpose.	The funds allocated for installation, operation, and maintenance of pollution control equipment, as well as for implementation of various environmental protection measures, have been judiciously and effectively utilized for the intended purpose. These investments have facilitated compliance with the environmental safeguards and conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) and the Odisha State Pollution Control Board (OSPCB). The Company maintains a robust system for planning, monitoring, and reviewing environmental expenditures to ensure timely implementation of pollution control and environmental management measures. It is hereby confirmed that the funds earmarked for environmental protection activities have been utilized exclusively for environmental infrastructure, pollution control systems, monitoring facilities, resource conservation initiatives, and other related environmental management measures. Further, the Company ensures that no portion of the funds allocated for environmental protection and compliance is diverted for any other purpose. Periodic reviews and internal controls are in place to monitor the utilization of these funds and to ensure continued compliance with statutory requirements and environmental commitments.
viii	Statutory compliance	The Regional Office of this Ministry at / Central Pollution Control Board /Orissa State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and monitored data along with statistical interpretation shall be submitted them regularly.	Six monthly compliance reports along with monitored data and statistical interpretation are regularly submitted at the Regional Office of MoEF & CC as well as at OSPCB/CPCB. The last six-monthly report submitted on date 30.05.2026. The statistical interpretation is attached as **Annexure- XVII.**

ix	Statutory compliance	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Orissa State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http:envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	Information regarding issue of environmental clearance by the MoEF&CC was published in the vernacular language. The publication copy is as below  ବିଜ୍ଞାପନ Edited, Printed, Published & Owned by Bijna Ranjan Mi Published at Pt. L.N. Mishra Lane, Sambalpur-768001, **News Paper Publication for 1.2 to 2.2 MTPA**
x	Statutory compliance	The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and date of commencing the land development work.	Bhushan Power and Steel Limited (BPSL) has undergone successful resolution under Insolvency & Bankruptcy Code (IBC), 2016. Due to the financial mismanagement in BPSL by its erstwhile directors and promoters, in July, 2017, an application was filed under Section 7 of IBC Code, 2016 by the Punjab National Bank being CA No. 254 of 2019 titled '"Punjab National Bank v. Bhushan Power and Steel Ltd before the National Company Law Tribunal, Principal Bench, New Delhi ("NCLT") for initiating Corporate Insolvency Resolution Process (CIRP) against BPSL. Thereafter, NCLT vide its order dated 05.09.2019 approved the Resolution Plan submitted by M/s JSW Steel Limited under Section 31 (1) of the IBC, 2016. Subsequently, Ld. National Company Law Appellant Tribunal ("NCLAT"), vide its order dated 17.02.2020 passed in CA No. 957 of 2019 titled "JSW Steel Ltd. v. Mahendar Kumar Khandelwal approved the resolution plan submitted by M/s JSW Steel Limited for the acquisition of BPSL under the provisions of the IBC, 2016 and w.e.f. 26.03.2021, M/s JSW Steel Limited took over the operations, management and control of BPSL. Hence the financial closure and final approval of the project by the concerned authorities is not traceable.

COMPLIANCE TO EC CONDITION
F. No.J-11011/228/2003-IA II Dated-12.05.2004 for 1.2 MTPA

Specific Condition:

S.N	Condition Heading	Condition Details	Compliance Status
i	Air Quality Monitoring and Preservation	The gaseous and particulate emissions from various process units shall conform to standards prescribed by the state pollution Control Board. The company shall take appropriate measures to achieve the load /mass based standards prescribed from time to time . The State Board may specify more stringent standards for the relevant parameters keeping in view in the nature of the industry and its size and location. At no time the emission level shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous and particulate emissions generated from various processes are maintained within the standards prescribed by the State Pollution Control Board. The load/mass-based emission standards for the Coke Oven Plant are being complied with in accordance with the notification issued by the Ministry on 19th May 1993 and subsequent amendments, including the amendment dated 31.03.2012. Power requirements are primarily met through the captive power plant. In the event of a power failure, the Diesel Generator (DG) sets are operated to ensure an uninterrupted power supply to critical systems and pollution control equipment.
ii	Air Quality Monitoring and Preservation	In plant control measures for checking fugitive emissions from spillages, handling of raw materials and product shall be provided. Further specific measures such as ESP based dedusting system for sponge Iron plant, ESPs for DRI Kilns. Ventury scrubber and clarifier for BF stove gas cleaning , bag filters for BF dedusting stack. Bag filter for induction furnace, electric arc furnace and ladle furnace, ESPs for CPP and bag filter for raw material crusher area shall be provided. Data on fugitive emissions shall be regularly monitored and records maintained, Continuous stack monitoring system shall be installed in major stacks.	Adequate Air Pollution Control (APC) systems have been installed and are in operation across the plant to control particulate and gaseous emissions. These include Electrostatic Precipitators (ESPs) at the DRI, CPP, Sinter Plant, and Pellet Plant, as well as Bag Filters at the DRI, RMHS, Coke Oven, Lime Plant, SMS, and Blast Furnace (BF) units. Additionally, a Dry Gas Cleaning Plant (GCP) in BF-1 and a Wet Gas Cleaning Plant in BF-2 are operating effectively to control dust emissions from the blast furnace cast houses. Further, water sprinkling systems, dry fog systems, and industrial vacuum-cleaning units have been installed and are being operated regularly to control fugitive dust emissions. To strengthen dust suppression measures, road sweeping machines, wheel washing systems, and multi-utility vehicles equipped with mist cannons are also deployed across the plant premises. These measures collectively ensure effective control of stack and fugitive emissions and help maintain ambient air quality within the prescribed standards.

<table>
<tr><th>S.N</th><th>Condition Heading</th><th>Condition Details</th><th>Compliance Status</th></tr>
<tr><td>iii</td><td>Water Quality Monitoring & Preservation</td><td>The plant shall be based on zero discharge concept. There shall be no discharge of effluent, which shall be fully recycled. As reflected in the EIA/EMP report the waste water from raw water treatment plant and filter backwash water ,after taking through settling tanks ,shall be used for moistening of ash, cooling of slag and horticulture. The DM water plant effluent shall also be taken to settling tank after neutralization .Cooling tower blow down shall be reused for service water system. Water from coal washery shall be treated in thickener and its overflow reused in the plant. The domestic wastewater from township after treatment in STP shall be used for greenbelt development.</td><td>A comprehensive Zero Liquid Discharge (ZLD) system has been implemented to ensure that no industrial effluent is discharged outside the plant boundary.
The wastewater management infrastructure includes:
<table><tr><th>#</th><th>Facility</th><th>Quantity</th></tr><tr><td>1</td><td>Wastewater Treatment Plants (WWTPs)</td><td>3 Nos.</td></tr><tr><td>2</td><td>Effluent Treatment Plant (ETP)</td><td>1 No.</td></tr><tr><td>3</td><td>Biological Effluent Treatment Plant (BETP)</td><td>1 No.</td></tr><tr><td>4</td><td>Reverse Osmosis (RO) Plant</td><td>1 No.</td></tr><tr><td>5</td><td>Sewage Treatment Plants (STPs)</td><td>3 Nos.</td></tr></table>Additional water conservation and reuse initiatives
• To strengthen ZLD implementation, the following measures have been adopted:
• Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency.
• Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5).
• Utilization of STP treated water in cooling tower make-up.
• Use of wastewater treated for road cleaning, dust suppression, and horticulture.
• Reuse of treated wastewater for greenbelt irrigation and plantation maintenance.
• Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption.
Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.</td></tr>
<tr><td>iv</td><td>Waste Management</td><td>As reflected in the EIA/EMP report, solid waste generated in the form of slag from blast furnace(12800 TPA) shall be collected in the earmarked slag dump area and sold to cement plants, SMS slag from induction furnace and electrical arc furnace (183000TPA) shall be used for land filling or boulder, soling of roads, Scrap from SMS and other areas shall be recycled to the maximum possible extent .Dust from DRI unit and SMS shall be recycled or sold to</td><td>Continuous efforts are being undertaken to achieve 100% recycling of solid waste generated within the plant.
Slag from Blast Furnace being stored in earmarked area and sold to cement manufacturers. SMS Induction furnace slag after necessary processing being used for land filling and soling of roads. Scrap from SMS and other areas being recycled to a maximum extent. Electric Arc Furnace (EAF) slag is processed through crushing and segregation; high iron-bearing fractions are recycled back into the EAF,</td></tr>
</table>

		outside parties. Ash from DR kilns and CPP shall be collected in earmarked ash dump areas, and provided to brick and cement manufacturers or used for back filling of abandoned mines.	medium iron-bearing fractions are utilized in the sinter plant, and low iron-bearing fractions are used for low-lying area filling and road construction within the stipulated timeframe. Bag filter Dust from DRI and SMS being recycled in sinter making. Ash from DRI and CPP is being fully utilized through various sustainable manners, including supply to brick manufacturing units, utilization in road development projects, and dispatch to cement plants. Any balance quantity is being used for reclamation of low-lying areas after obtaining. Other iron-bearing by-products such as ESP dust, bag filter dust, GCP dust, and ARP residues are effectively recycled and reused in the iron-making process.
v	Corporate Environmental Responsibility	All the recommendations of the Charter of Corporate Responsibility for Environmental Protection (CREP) for the integrated Iron and Steel Sectors shall be strictly implemented.	Recommendations made in the Charter of Corporate Responsibility for Environment Protection (CREP) are being implemented as per the guidelines laid for Integrated Iron & Steel Sector. The CREP compliance is enclosed **Annexure-XXI.**
vi	Greenbelt	Green belt of adequate width and density shall be provided to mitigate the effects of fugitive emission all around the plant. A minimum 25% of the area shall be developed as green belt with local species in consultation with the DFO and as per CPCB's guidelines.	Development of 33% greenbelt is under progress in and around the plant complex, both within and outside the premises, through plantation of native species in line with CPCB guidelines. As of March 2026, approximately 33% of the total area (including both inside and outside the plant) has been covered under greenbelt development.
vii	Water Quality Monitoring & Preservation	The company shall undertake rainwater harvesting measures to harvest the rain water for their own utilization as well as to recharge the ground water table.	Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. In addition, under its community-based rainwater harvesting and water conservation programme, the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, improved groundwater recharge, increased water availability for agriculture and domestic use, and contributed to the overall water security of the local communities.

viii	Human Health Environment	Occupational Health Surveillance of the worker shall be done on a regular basis and records maintained as per the Factories Act. The company shall install CO detectors to detect leakage of CO from the MBF. Cardiopulmonary Resuscitation facilities and mediated Oxygen cylinder facilities shall be provided.	An Occupational Health Centre (OHC) has been established within the plant premises to provide comprehensive healthcare services to employees and contract workers. The OHC conducts pre-employment and periodic medical examinations for all workers, including contract labourers, to monitor occupational health and ensure fitness for assigned duties. All statutory records, health surveillance data, and medical documents are maintained in accordance with the provisions of the Factories Act, 1948 and applicable rules. To address medical emergencies, the plant is equipped with Cardiopulmonary Resuscitation (CPR) facilities, emergency medical equipment, and medicinal oxygen cylinders. These facilities ensure prompt first-aid response and emergency care whenever required, thereby strengthening the overall occupational health and safety management system of the plant. Health surveillance report is attached as **Annexure- XIV.**
ix	Statutory compliance	The company shall obtain necessary approvals for diversion of 59 ha of forest land from the concerned agencies.	Both stage –I and Stage –II clearance granted for diversion of 59 ha of forest Land.
B	**General Conditions:**		
S.N	**Condition Heading**	**Condition Details**	**Compliance Status**
i	Statutory compliance	The project authorities shall strictly adhere to the stipulation made by the Orissa Pollution Control Board and the State Government.	All applicable stipulations made by Odisha State Pollution Control Board, Odisha and State Government are being complied.
iii	Air Quality Monitoring & Preservation	At least four ambient air quality monitoring stations shall be established in the down wind direction, as well as where max. Ground level concentrations of SPM, SO2 & NOx are anticipated in consultation with OSPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office and the OSPCB/Central Pollution Control Board once in six months.	Six Continuous Ambient Air Quality Monitoring Stations have been installed in down wind direction as well as where max ground level concentration were anticipated by consultant in consultation with the regional office OSPCB. Ambient Air Quality and Stack emissions are being regularly submitted to the Regional Office of MoEF&CC as well as OSPCB/CPCB latest half yearly compliance has been submitted vide letter JJSL/ENV/26-27/019 dtd.30.05.26. The report is attached as **Annexure XIII.**

IV	Water Quality Monitoring & Preservation	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time.	Industrial waste Water has been collected and treated to confirm the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water is being used inside the plant in various applications such as ash conditioning, sprinkling, horticulture, firefighting etc. Analysis report of treated Effluent of effluent Treatment Plant (ETP), BETP & wastewater of WWTP-1, WWTP-2 WWTP-3 for the period of Oct '25 to Mar'26 is enclosed as **Annexure-II, III&IV.**
V	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules ,1989 viz 75 dB A (daytime) and 70 dB A (nighttime)	The overall noise levels within the plant premises and surrounding areas are being maintained well within the prescribed standards. Adequate noise control measures, such as installation of acoustic hoods, silencers, acoustic enclosures, and regular maintenance of equipment, have been implemented to minimize noise generation at source. Further, as a proactive occupational health and safety measure, no employee is deployed continuously for the entire working shift in high-noise areas. Personnel required to enter such areas are provided with and mandated to use appropriate hearing protection devices, including earplugs and earmuffs. Job rotation practices are also followed, wherever applicable, to minimize noise exposure. The results of work-zone noise monitoring and ambient noise monitoring conducted during the period **October 2025 to March 2026** indicate compliance with the applicable standards. The detailed monitoring reports are enclosed as **Annexure-V**

vi	Human Health Environment	Proper housekeeping and adequate occupied health programmers shall be taken up. Occupational health surveillance programs shall be done on a regular basis and records maintained.	A structured **5S Housekeeping System** has been implemented across all shop floors, utility areas, and office premises within the plant to maintain cleanliness, orderliness, and safe working conditions. A dedicated team regularly conducts inspections and audits to monitor compliance and drive continual improvement in workplace housekeeping standards. An **Occupational Health Centre (OHC)** has been established within the plant premises to provide comprehensive healthcare services to employees and contract workers. The OHC conducts **pre-employment and periodic medical examinations** for all workers, including contract labourers, to assess occupational health status and ensure fitness for assigned duties. All statutory health records, medical surveillance data, and related documentation are maintained in compliance with the provisions of the **Factories Act, 1948** and applicable rules. To effectively address medical emergencies, the plant is equipped with Cardiopulmonary Resuscitation (CPR) facilities, emergency medical equipment, ambulances, and medicinal oxygen cylinders. These facilities enable prompt first-aid response and emergency medical care whenever required, thereby strengthening the overall Occupational Health and Safety (OHS) Management System of the plant and ensuring a safe and healthy working environment for all personnel.
vii	Corporate Environmental Responsibility	The company shall comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the company shall undertake socio-economic development activities in the surrounding villages like community development programmers, educational programmers, drinking water supply and health care etc	All environmental protection measures and pollution control systems envisaged in the **EIA/EMP Report** have been implemented and are being operated effectively. The Company continues to undertake regular monitoring and maintenance of these facilities to ensure compliance with applicable environmental norms and to minimize environmental impacts arising from plant operations. In line with its commitment towards sustainable development and inclusive growth, the Company has undertaken various **Community Development and Socio-Economic Development Programmes** in the peripheral villages. Major initiatives include: • Construction and renovation of primary and secondary school infrastructure.

			• Development and strengthening of village road connectivity. • Construction and renovation of community and religious infrastructure. • Provision of safe drinking water facilities in nearby villages. • Renovation and rejuvenation of village ponds and water bodies. • Installation of solar street lights along village roads and public places. • Support during medical emergencies and organization of regular health awareness programmes. Regular **free health camps** in association with the District Administration and reputed healthcare institutions are being organised. During these camps, free medical consultation, health screening, diagnostic services, and medicines are provided to beneficiaries from surrounding communities. These initiatives have significantly contributed to improving healthcare access and enhancing the overall quality of life in the project-affected and neighboring villages. The detailed CSR activities undertaken since acquisition is attached as **Annexure-VI.**
viii	Miscellaneous	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring function should be set up under the control of senior executive.	A dedicated Environment Management Department (EMD), supported by a fully equipped Environmental Laboratory, has been established and is in operation for carrying out environmental monitoring, data analysis, compliance management, and implementation of pollution control measures. The department is headed by a senior executive and is staffed with qualified environmental professionals responsible for ensuring continual compliance with statutory requirements and environmental standards. The in-house Environmental Laboratory has recently been accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL), reflecting the Company's commitment to maintaining high standards of environmental monitoring and analytical accuracy. In addition to in-house monitoring, the Company has engaged a NABL-accredited third-party agency for periodic monitoring and analysis of environmental parameters such as ambient air quality, stack

			emissions, water quality, wastewater quality, and other relevant environmental indicators. The results of both in-house and third-party monitoring are regularly reviewed to assess environmental performance and ensure compliance with the prescribed norms of statutory authorities.
ix	Miscellaneous	The project authorities shall provide adequate funds recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	The funds allocated for installation, operation, and maintenance of pollution control equipment, as well as for implementation of various environmental protection measures,. have been judiciously and effectively utilized for the intended purpose. These investments have facilitated compliance with the environmental safeguards and conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) and the Odisha State Pollution Control Board (OSPCB). The Company maintains a robust system for planning, monitoring, and reviewing environmental expenditures to ensure timely implementation of pollution control and environmental management measures. It is hereby confirmed that the funds earmarked for environmental protection activities have been utilized exclusively for environmental infrastructure, pollution control systems, monitoring facilities, resource conservation initiatives, and other related environmental management measures. Further, the Company ensures that no portion of the funds allocated for environmental protection and compliance is diverted for any other purpose. Periodic reviews and internal controls are in place to monitor the utilization of these funds and to ensure continued compliance with statutory requirements and environmental commitments.
x	Statutory compliance	The Regional Office of this Ministry at Bhubaneswar/ Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A Six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance reports along with monitored data and statistical interpretation are regularly submitted at the Regional Office of MoEF & CC as well as at OSPCB/CPCB. The last six-monthly report submitted on date 30.05.2026. Statistical interpretation is attached as **Annexure-XVII.**

xi	Statutory compliance	The company shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the state Pollution Control Board/Committee and may also be seen at website of the Ministry of Environment & Forests at http:/envfor.nic.in This shall be advertised within seven days from the state of issue of clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Information regarding issue of environmental clearance by the MoEF&CC was published in the vernacular language and English.
xii	Statutory compliance	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Bhushan Power and Steel Limited (BPSL) has undergone successful resolution under Insolvency & Bankruptcy Code (IBC), 2016. Due to the financial mismanagement in BPSL by its erstwhile directors and promoters, in July, 2017, an application was filed under Section 7 of IBC Code, 2016 by the Punjab National Bank being CA No. 254 of 2019 titled "'Punjab National Bank v. Bhushan Power and Steel Ltd before the National Company Law Tribunal, Principal Bench, New Delhi ("NCLT") for initiating Corporate Insolvency Resolution Process (CIRP) against BPSL. Thereafter, NCLT vide its order dated 05.09.2019 approved the Resolution Plan submitted by M/s JSW Steel Limited under Section 31 (1) of the IBC, 2016. Subsequently, Ld. National Company Law Appellant Tribunal ("NCLAT"), vide its order dated 17.02.2020 passed in CA No. 957 of 2019 titled "JSW Steel Ltd. v. Mahendar Kumar Khandelwal approved the resolution plan submitted by M/s JSW Steel Limited for the acquisition of BPSL under the provisions of the IBC, 2016 and w.e.f. 26.03.2021, M/s JSW Steel Limited took over the operations, management and control of BPSL. Hence the financial closure and final approval of the project by the concerned authorities is not traceable.

LIST OF ENCLOSURE

S.N	Enclosure	Description
1.	Annexure-I	Summary of the fugitive emission monitoring report (Iron Zone & Steel Zone) for the period Oct'25 to Mar'26 as per 2012 Notification.
2.	Annexure-II	Summary of treated effluent water quality report for the period Oct'25 to Mar'26
3.	Annexure-III	Summary of treated water analysis report of ETP of Coke Oven for the month of Oct'25 to Mar'26
4.	Annexure-IV	Summary of Treated Sewage analysis report for the period Oct'25 to Mar'26
5.	Annexure-V	Summary of the Noise monitoring report for the period Oct'25 to Mar'26
6.	Annexure-VI	The details of the CSR initiatives for the year 2025-26 & from date of acquisition
7.	Annexure-VII	The relevant extract of the Integrated Report for the year 2024-25
8.	Annexure-VIII	Summary of Ground water analysis report for the Period Oct'25 to Mar'26
9.	Annexure-IX	Approved R & R Plan
10.	Annexure-X	OSPCB letter for installation of CEMS
11.	Annexure-XI	Onsite Emergency Plan along with disaster management
12.	Annexure-XII	Compliance to PH commitment
13.	Annexure-XIII	Ambient Air Quality 12 parameter and Stack Monitoring Report
14.	Annexure-XIV	Details of Health Surveillance (Last three years and test report sample Copy)
15.	Annexure-XV	Solid Waste TCLP report
16.	Annexure-XVI	Annual Env Statement for 2024-25
17.	Annexure-XVII	Statical Analysis report of Air, Water & Noise monitoring
18.	Annexure-XVIII	Annual Ash Return for 2025-26
19.	Annexure-XIX	Annual Hazardous waste return for 2025-26
20.	Annexure-XX	Annual Bio Medical Waste Return
21.	Annexure-XXI	CREP compliance
22.	Annexure-XXII	List of CEMS, CAAQMS and CEQMS
23.	Annexure-XXIII	Greenbelt development details
24.	Annexure-XXIV	List of STP, ETP & Wastewater Treatment Plant
25.	Annexure-XXV	Environment Policy
26.	Annexure-XXVI	Paper Publication pertaining to grant of EC
27.	Annexure-XXVII	Chronology of Environmental Clearance
28.	Annexure-XXVIII	Environmental Parameter Display Board Photographs
29.	Annexure-XXIX	Unit wise Physical Progress
30.	Annexure-XXX	Details of EC, CTE, CTO
31.	Annexure-XXXI	Air Pollution Control Equipment Details
32.	Annexure-XXXII	Environment Cell

Annexure-I

The Summary of the fugitive emission monitoring report for the period of Oct'25 to Mar'26

S N	Department	Location	PM10 Range in ug/M3		
1	Coke Oven-1	L-94 , 002 Conveyor Belt line	793	to	963
2	Coke Oven-1	Silo area	675	to	1376
3	Coke Oven-1	Mixing Building	480	to	1458
4	Coke Oven-1	Battery Area	428	to	956
5	Coke Oven-1	Coal Tower area	426	to	977
6	Coke Oven-1	Coke oven -1 office	76	to	105
7	Coke Oven-2	Mixing building	345	to	884
8	Coke Oven-2	BETP area	306	to	521
9	Coke Oven-2	JT 01 (25BC 01)	447	to	735
10	Coke Oven-2	JT 01 (25BC 02)	558	to	728
11	Coke Oven-2	Control room	82	to	122
12	BF-1	Cast house	332	to	1846
13	BF-1	Near pump house	208	to	451
14	BF-1	PCI area	287	to	1785
15	BF-1	Control room	78	to	102
16	BF-2	Cast house	1624	to	1975
17	BF-2	PCI area	475	to	932
18	BF-2	Pump house	305	to	612
19	BF-2	Control room	78	to	112
20	SMS-1	Furnace -1	792	to	1765
21	SMS-1	Furnace -2	1488	to	1868
22	SMS-1	Furnace -3	1520	to	1973
23	SMS-1	Furnace -4	1695	to	1953
24	SMS-1	Furnace -1&2 slag pit area	445	to	1458
25	SMS-1	Furnace - 3&4 slag pit area	552	to	1734
26	SMS-1	Control room	82	to	112
27	SMS-2	Furnace -1	408	to	1975
28	SMS-2	Furnace -2	1088	to	1889
29	SMS-2	Furnace -1 slag pit area	445	to	1460
30	SMS-2	Furnace -2 slag pit area	423	to	1625
31	SMS-2	Control Room	81	to	112
32	Sinter Plant-1	Primary Screening building	874	to	874
33	Sinter Plant-1	Secondary Screening building	1325	to	1325
34	Sinter Plant-1	secondary mixing Drum	1108	to	1108
35	Sinter Plant-1	Control Room	98	to	98
36	Sinter Plant-2	Primary Screening building	902	to	1618

S N	Department	Location	PM10 Range in ug/M3		
37	Sinter Plant-2	Secondary Screening building	1369	to	1826
38	Sinter Plant-2	Primary mixing Building	826	to	1638
39	Sinter Plant-2	Control room	78	to	106
40	Pellet Plant	Indurating Building	837	to	1642
41	Pellet Plant	Dosing & mixing Building (HLO1-GL81-MA01) Head End	625	to	1536
42	Pellet Plant	Dosing & mixing Buildng (HLO1-GL81-MA01) Tail End	818	to	1785
43	Pellet Plant	Additive Storage area	827	to	1381
44	Pellet Plant	Pump house	240	to	465
45	Pellet Plant	Pellet plant office	75	to	116
46	Beneficiation	Grinding Building	525	to	985
47	Beneficiation	JIG Building	432	to	1152
48	Beneficiation	Scrubber Building	754	to	1240
49	Beneficiation	Fines Building	547	to	1078
50	Beneficiation	22 Belt Line	406	to	892
51	Beneficiation	Control room	72	to	118
52	Power plant(3x130)MW	1 no ESP area	536	to	1562
53	Power plant(3x130)MW	2 no ESP area	612	to	1146
54	Power plant(3x130)MW	3 no ESP area	904	to	1665
55	Power plant(3x130)MW	4 no ESP area	582	to	1462
56	Power plant(3x130)MW	5 no ESP area	1156	to	1685
57	Power plant(3x130)MW	6 no ESP area	964	to	1542
58	Power plant(3x130)MW	1 no Boiler area	822	to	1418
59	Power plant(3x130)MW	2 no Boiler area	1271	to	1765
60	Power plant(3x130)MW	3 no Boiler area	1033	to	1874
61	Power plant(3x130)MW	4 no Boiler area	1098	to	1533
62	Power plant(3x130)MW	5 no Boiler area	837	to	1678
63	Power plant(3x130)MW	6 no Boiler area	810	to	1058
64	Power plant(3x130)MW	Control Room	84	to	102
65	Power Plant 100MW	AFBC-1 Boiler area	1398	to	1872
66	Power Plant 100MW	AFBC-1 ESP area	1075	to	1632
67	Power Plant 100MW	AFBC-2 Boiler area	502	to	1865
68	Power Plant 100MW	AFBC-2 ESP area	925	to	1736
69	Power Plant 100MW	WHRB-1 Boiler area	326	to	711
70	Power Plant 100MW	WHRB-1 ESP area	305	to	621
71	Power Plant 100MW	WHRB-2 Boiler area	424	to	719
72	Power Plant 100MW	WHRB-2 ESP area	398	to	698

73	Power Plant 100MW	WHRB-3 Boiler area	521	to	744
74	Power Plant 100MW	WHRB-3 ESP area	465	to	728
S N	**Department**	**Location**	**PM10 Range in ug/M3**		
75	Power Plant 100MW	WHRB-4 Boiler area	421	to	792
76	Power Plant 100MW	WHRB-4 ESP area	320	to	723
77	Power Plant 100MW	Control Room	75	to	111
78	250TPH Boiler	DCF Floor (20mtr)	1422	to	1955
79	250TPH Boiler	ESP area	1288	to	1970
80	250TPH Boiler	Hopper 20mtr	987	to	1921
81	250TPH Boiler	Boiler area	823	to	1665
82	250TPH Boiler	Control room	80	to	105
83	RMHS	Conveyor belt 21C1	602	to	1485
84	RMHS	Conveyor belt 20C1	724	to	1326
85	RMHS	Conveyor belt 20C2	872	to	1592
86	RMHS	Wagon Tippler # 2	1569	to	1835
87	RMHS	Wagon Tippler # 3	1492	to	1842
88	RMHS	Railway yard	495	to	852
89	RMHS	Barel area	485	to	835
90	RMHS	Limestone screening area	652	to	1424
91	RMHS	RMPP-2&5 office	78	to	110
92	RMHS	T2C1 Discharge point	1315	to	1602
93	RMHS	T3C1 Receiving Point	1408	to	1627
94	RMHS	T3C1 Discharge Point	1148	to	1685
95	RMHS	T3AC1 Receiving Point	665	to	1028
96	RMHS	T3AC1 Discharge Point	1218	to	1532
97	CRM	Gate No-12	305	to	512
98	CRM	Between CTL 3 &CTL 7	284	to	475
99	DRI 1 & 2	Day bin area	548	to	1089
100	DRI 1	Cooler inlet slip seal	1568	to	1982
101	DRI - 2	cooler inlet slip seal	1235	to	1907
102	DRI 1 & 2	Control room	81	to	112
103	DRI - 3	Cooler inlet slip seal	1776	to	1941
104	DRI - 4	Cooler inlet slip seal	1396	to	1872
105	DRI - 3 & 4	Control room	72	to	108
106	DRI -5	cooler outlet slip seal	1422	to	1842
107	DRI -6	cooler inlet slip seal	1578	to	1955
108	DRI -5 & 6	Control room	72	to	120
109	DRI -8	Cooler outlet slip seal	1321	to	1785
110	DRI -7 & 8	Control Room	85	to	128
111	DRI -9	Cooler inlet slip seal	1028	to	1834

112	DRI -10	Cooler inlet slip seal	1622	to	1962
113	DRI -9 &10	Control room	79	to	115
114	DRI -11 & 12	Control room	83	to	126
115	Lime Plant	Entrance Road of LCP	675	to	1250
116	Lime Plant	Service Road Plaza & LCP kiln	541	to	976
117	Lime Plant	Zero level RBC phase-1	736	to	1252
118	Lime Plant	Zero level new RBC	792	to	1363
119	Lime Plant	Conveyor belt LCPC-BFC1 to 6 tail end	1262	to	1872
120	Lime Plant	Conveyor belt LCPC-BFC1 to 6 head end	1365	to	1908
121	Lime Plant	Mechanical office	88	to	118

SN	Department	Location	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (µg/m3)	Pb (µg/m3)	BAP (µg/m3)
1.	BF#1	Near Cast House	1842.6	48.2	33.8	1218	0.16	-
2.	BF#2	Near Cast House	1901	45.9	37.2	1173	0.24	-
3.	SMS #1	Near EAF#1	1562.7	45.2	37.6	1209	0.15	-
4.	SMS #1	Near EAF#2	1694.5	49.7	32.3	1211	0.11	-
5.	SMS #1	Near EAF#3	1517.2	43.3	30.8	1101	0.27	-
6.	SMS #1	Near EAF#4	1622.9	46.5	34.2	971	0.22	-
7.	CO#2	Near Tar Storage area	-	-	-	-	-	0.62
8.	CO#2	Near BETP Area	-	-	-	-	-	0.57
9.	CO#2	Top of Battery#1	-	-	-	-	-	0.90
10.	CO#2	Top of Battery#2	-	-	-	-	-	0.87

Env. Laboratory In-charge

Annexure-II

Summary of treated effluent water quality report for the period of October '25 to March'26

SN	Sampling Location	Parameter	Standard as per CTO	Range		
1	WWTP-1 Treated Water	pH	6.5 to 9.0	6.86	to	7.75
		TSS mg/l	<100	17	to	44
		TDS mg/l	<2100	1212	to	1810
		COD mg/l	<250	32.6	to	74
		O&G mg/l	<10	4	to	5.8
		Fe mg/l	<1.0	0.236	to	0.81
2	WWTP-2 Treated Water	pH	6.5 to 9.0	7.04	to	7.56
		TSS mg/l	<100	12.4	to	32
		TDS mg/l	<2100	908	to	1440
		COD mg/l	<250	16.4	to	43.8
		O&G mg/l	<10	2.8	to	6.1
		Fe mg/l	<1.0	0.218	to	0.89
3	WWTP-3 Treated Water	pH	6.5 to 9.0	6.68	to	7.78
		TSS mg/l	<100	16	to	34
		TDS mg/l	<2100	984	to	1841
		COD mg/l	<250	24.6	to	59.8
		O&G mg/l	<10	3.2	to	6.5
		Fe mg/l	<1.0	0.198	to	0.49

Env. Laboratory In-charge

Annexure-III

Summary of treated effluent analysis report of ETP of Coke Oven for the period of Oct'25 to Mar26

SN	Sampling Location	Parameter	Standard as per CTO	Range
1	Coke Oven-2 BETP Treated Water	pH	5.5 to 9.0	6.87 to 7.58
		TSS mg/l	<100	7.6 to 48
		Phenol mg/l	<1.0	<1.0 to <1.0
		Cyanide mg/l	<0.2	<0.2 to <0.2
		BOD mg/l	<30	18.5 to 22.2
		COD mg/l	<250	40.2 to 61.6
		Total Ammoniacal Nitrogen mg/l	<50	7.8 to 8.87
		O&G mg/l	<10	4.2 to 7.2
		TDS mg/l	<2100	1320 to 1712
		Fe mg/l	<3.0	0.257 to 0.612
		Cr mg/L	<2.0	0.24 to 0.284

Env. Laboratory In-charge

Annexure-IV

Summary of treated effluent water quality report for the period of Oct '25 to Mar'26

SN	Sampling Location	Parameter	Standard as per CTO	Range		
1	STP-1	pH	6.5-9.0	6.59	to	7.06
		TSS mg/l	<100	16.6	to	40
		BOD mg/l	<30	10.08	to	15.4
		F. Coliform (MPN/100 ml)	<1000	94	to	540
2	STP-2	pH	6.5-9.0	6.72	to	7.78
		TSS mg/l	<100	6.8	to	38
		BOD mg/l	<30	8.25	to	17
		F.Coliform (MPN/100 ml)	<1000	170	to	350
3	STP-3	pH	6.5-9.0	7.11	to	8.76
		TSS mg/l	<100	5.6	to	30
		BOD mg/l	<30	11.6	to	16.3
		F. Coliform (MPN/100 ml)	<1000	13.8	to	840

Env. Laboratory In-charge

Annexure-V

Summary of the Noise monitoring report for the period Oct'25 to Mar'26

SN	Department	Location	Range in dB(A)		
1	DRI-1	Product handling area	80.1	to	84.8
	DRI-2	Product handling area	81.2	to	84.1
	DRI-3	Product handling area	79.9	to	84.2
	DRI-4	Product handling area	80.2	to	84.3
	DRI-5	Product handling area	81.2	to	84.8
	DRI-6	Product handling area	79.9	to	84.5
	DRI-7	Product handling area	80.1	to	83.1
	DRI-8	Product handling area	77.5	to	83.3
	DRI-9	Product handling area	81.9	to	84.8
	DRI-10	Product handling area	79.5	to	84.5
	DRI-11	Product handling area	80.3	to	84.1
	DRI-12	Product handling area	78.9	to	83.8
2	CPP 3 X 130 MW	Boiler-1	80.1	to	83.2
		Boiler-2	80.4	to	84.6
		Boiler-3	80.9	to	84.2
		Boiler-4	81.2	to	84.8
		Boiler-5	81.2	to	84.7
		Boiler-6	81.7	to	84.8
3	CPP 100 MW	Feed Pump Area	80.7	to	84.9
		Boiler Area	79.0	to	84.8
4	Blast Furnace-I	Cast House	79.2	to	84.2
		Gas Cleaning Plant	80.6	to	84.6
		Stock House	80.6	to	84.0
5	Blast Furnace-II	Gas Cleaning Plant	80.6	to	84.9
		Stock House	79.8	to	84.0
6	Sinter Plant-2	Blower House	81.2	to	84.6
		Flux Charging area	76.4	to	84.3
		Proportional Building	76.1	to	84.6
7	Coke Oven-1	Battery Area	74.1	to	81.2
		Coke Cutting & Screening Building	72.2	to	83.2
8	Coke Oven-2	By-Product (Exhauster Area)	81.2	to	84.1
9	RMPP - I	Truck Tippling	81.4	to	84.6
		Stacking Area	77.5	to	84.8
		Coal Crushing Screening	82.7	to	84.8
		Ore Crushing & Screening	81.6	to	83.9
10	RMPP - II	Stacking & Reclaiming -3	81.0	to	84.9
		Stacking & Reclaiming -4	80.1	to	84.3
		Stacking & Reclaiming -5	81.5	to	84.4

11	RMPP-III	In front of Office	71.2	to	83.2
		Coal reclaiming area	80.1	to	82.2
12	Coal Washery -I	Infront of office	71.1	to	77.8
		Near Silo	71.4	to	84.9
13	Coal Washery -II	Infront of office	70.1	to	80.1
14	LCP	Lime Sizing Area	81.2	to	84.9
15	Pellet Plant	Balling Disc Area	80.1	to	84.4
		Screening Area	82.4	to	84.5
		Cooling Air fan Area	78.5	to	83.7
16	SMS-1	EAF-1 Area	81.2	to	84.6
		EAF-2 Area	81.6	to	84.9
		EAF-3 Area	80.2	to	84.5
		EAF-4 Area	80.2	to	84.6
		LF 3&4 Area	81.1	to	84.9
		Near Office	77.2	to	79.2
17	SMS - II	EAF Area	82.2	to	84.1
		LRF Area	82.3	to	84.8
		VD Area	81.1	to	84.8
		Near Office	72.7	to	78.9
		Near Laboratory	71.6	to	77.3
18	CSP	Mill Strand	82.0	to	84.6
		Down Coiler	80.2	to	84.9
19	CRM	Near Corrugation Machine	75.3	to	84.8
		Near CCL unit	81.7	to	84.5

Env. Laboratory In-charge

Annexure-VI

CSR EXPENDITURE FOR THE YEAR 2025-26 (1st April 2025- 31st March 2026)

S.No.	Programme Head	Key Interventions	Budget (Rs. In Crore)	Actual (Rs. In Crore)	Ongoing Projects (Rs. In Crore)
1	Educational infrastructure & systems strengthening	Bridging Critical Infrastructure Gap Early Childhood Care & Education Therapy & Education for special children with disabilities - Mannat Center Hamara Gaon Project JSW School Bus Support to Thelkoloi High School - Teacher Honorarium	1.55	1.50	0
2	General community infrastructure support & welfare initiatives	Development of community infrastructures Development of Townhall	3.17	3.11	0
3	Enhance Skills & rural livelihoods through nurturing of supportive ecosystems & innovations	Agri Livelihood Programme Women Enterprise Development Programme Sewing Production Center (Tarang Tailoring Unit) Sewing Training Center	1.46	1.42	0
4	Waste management & sanitation initiatives	Waste collection & management Integrated WaSH Programme Operation of community toilets	2.08	1.97	0
5	Integrated water resources management	Drinking water for communities	0.72	0.72	0
6	Public health infrastructure, capacity building & support programs	Community Dispensary Mobile Medical Unit Community Ambulance Provision of nutritional support for tuberculosis patients under PMTBMA	1.35	1.28	0
7	Sports promotion & institution building	Promotion of sports through local tournaments	0.1	0.1	0
8	Project Management Cost		0.42	0.36	0
		Grand Total	**10.85**	**10.46**	**0**

Education Programme- ECCE, Hamara Gaon and Mannat Centre








Development of Schools & AWCs




JSW School Bus





Community Infrastructure






Sewing **Training & Production Center**





Women **Empowerment & Enterprise Development**









Agri-based **Livelihood Programme**









Water Sanitation & Hygiene (WaSH) and Waste collection & management









Drinking Water Provision





Health & Nutrition- MMU, Community Dispensary and Community Ambulance











TB Kits Distribution





Sports





Expenditure incurred under CSR since acquisition FY'22 to FY'26

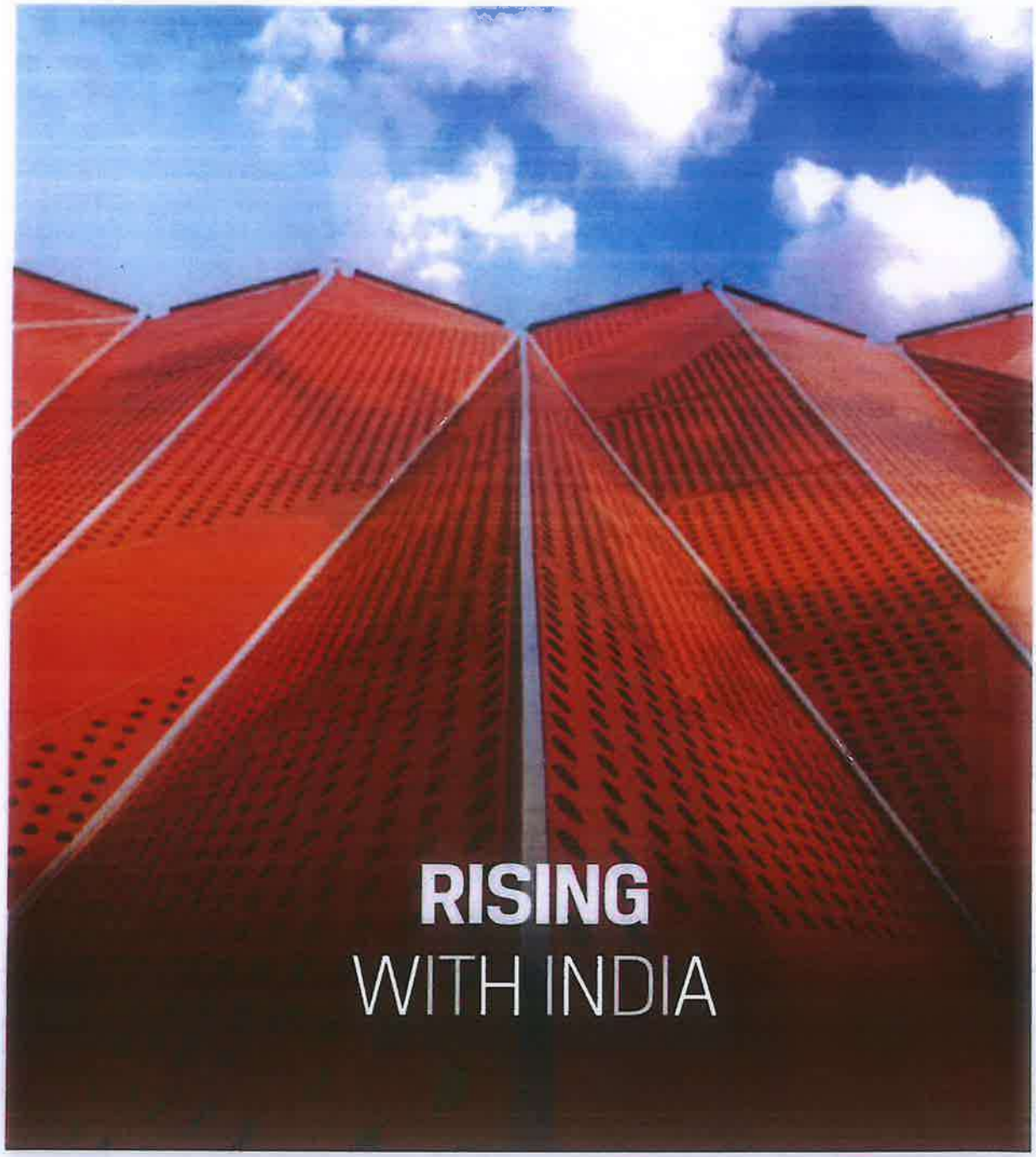
S. N	Proposed activity	Expenses FY'22 to FY'25 (in Cr)	Expenses during FY'26 (in Cr)
1	Road Infrastructure including Electrification/ Solar Street Lighting	1.576	3.11
2	Pond renovation & Rainwater harvesting & Water resources Management	1.088	0.72
3	Healthcare facilities	5.887	1.28
4	Drinking water & Sanitation	4.951	1.97
5	Vocational training arrangements for women and youth including skill development	3.1647	1.42
6	Education	7.1542	1.5
7	Electrification/ Solar Street Lighting	0.5015	0.11
8	Sports & Misc.	-	0.46
Grant Total		24.323	10.46

Annexure-VII

Better Everyday

JSW Steel

Integrated
Report 2024-25





A true visionary,
A legendary industrialist,
A great philanthropist,
A legacy that will always be cherished!

7th August 1930 - 31st March 2005

Founder and Visionary, O. P. Jindal Group

His life was an inspirational journey leading millions to follow the enlightened path.
We will always carry on his values, an epitome of indomitable courage, endurance and integrity, his legacy will always remain with us. As we take leaps towards the future, we are fully committed to honour his vision and keep his legacy alive & carrying it forward to greater heights.

WE ARE

INDIA'S LARGEST STEELMAKER

34.2 MTPA*
Domestic installed capacity

35.7 MTPA
Consolidated installed capacity



13.5 MTPA
Domestic downstream flat product capacity

3
Captive coking coal mines

23
Captive iron ore mines

28,166
Direct employees*

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Annexure VIII

No	Parameter	Unit	Standard as per IS 10500:2012	Bishidhi Village (Hand Pump)	Thelkoloi Village Tube Well	Sripura Village Tube Well	Lapanga Village, Hand pump	Dhubanchapal Village, Tube Well	Gumkarma Village Hand pump
22	Cyanide	mg/l	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Lead	mg/l	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24	Mercury	mg/l	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
25	Total Arsenic	mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
26	Cr	mg/l	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
28	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
29	MBAS	mg/l	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
30	Minarl Oil	mg/l	0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Annexure-IX

OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE, SAMBALPUR

(LAND ACQUISITION SECTION)

E-mail: landacquisitionofficer66@gmail.com

No. 834 **/ LA** **Date:** 18/11/2025

To

The Vice President, HR & PR,
BPSL, Thelkoloi.

Sub:- Forwarding the approved Master Plan for construction of the proposed R&R colony in village Khadiapali under Rengali tahasil of Sambalpur district.

Ref:- Your Letter No-Admin/2025/32 dtd 29.05.2025.

Sir,

With reference to the subject cited above , I am to forward here with the Master Plan in original for construction of the proposed R&R colony in village Khadiapali under Rengali tahasil of Sambalpur district duly approved by the Collector, Sambalpur with the following conditions.

i. JSW –BPSL to ensure houses in Sambalpuri design.
ii. Check location of crematorium.
iii. Location of Vetenary dispensary should be at common public utilities area.

This is for your information and necessary action at your level.

Yours faithfully,

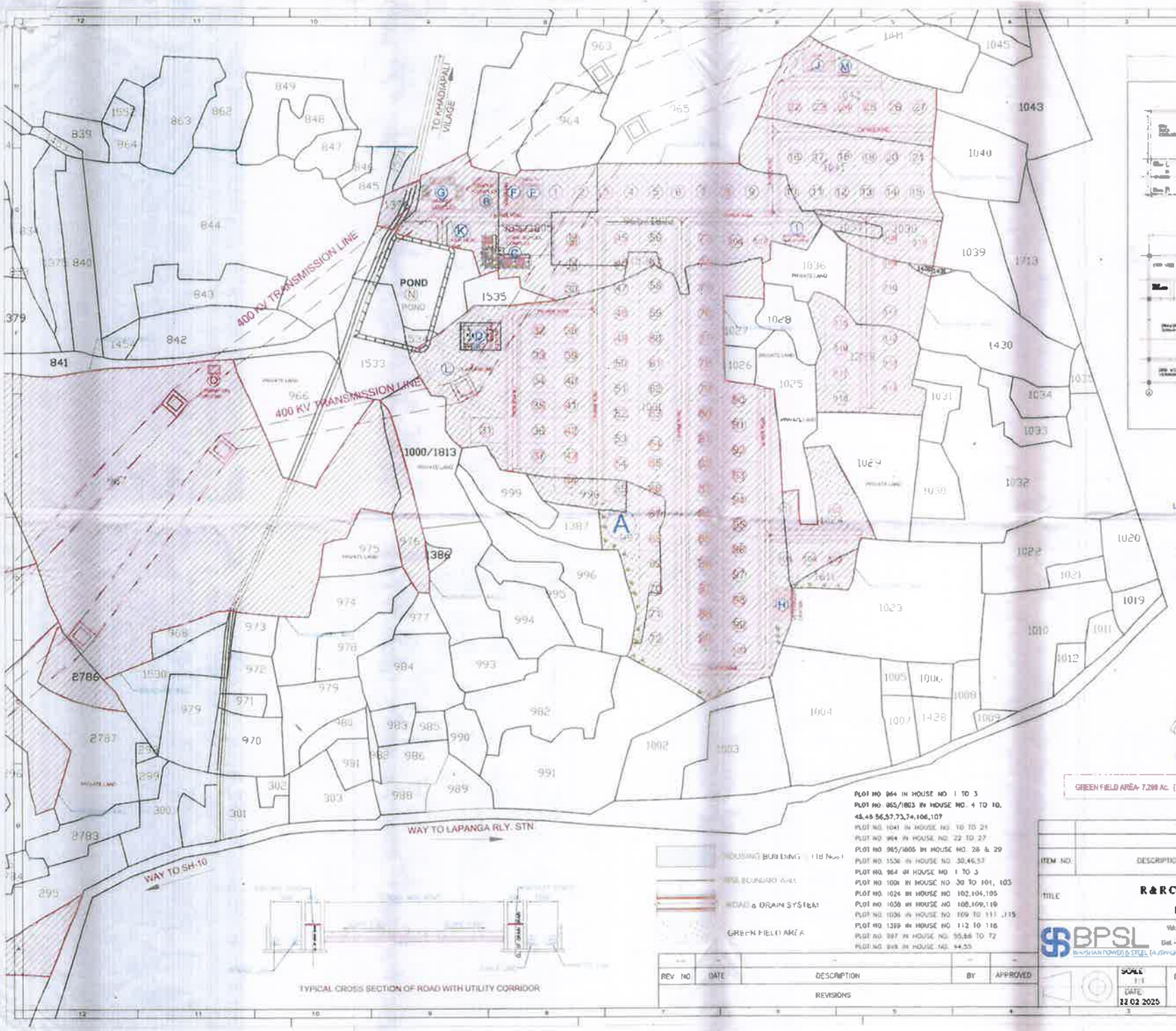
18/11/25

Additional District Magistrate,
Sambalpur

Memo No:.....834...../LA Date:-.....18/11/2025.....

Copy forwarded to the Land officer, IDCO, Bhubaneswar for information and necessary action.

Additional District Magistrate,
Sambalpur



TYPICAL CROSS SECTION OF ROAD WITH UTILITY CORRIDOR

AMENITIES COMMITTED IN EACH HOUSE
1. ENTRANCE VERANDA WITH ADD DOOR ON BOTH SIDE=1
2. HALL=1
3. BED ROOM=2
4. KITCHEN=1
5. TOILET=1
6. CATTLE SHED=1
7. WASHING PLATFORM
8. SEPTIC TANK, SEWAGE SYSTEM
9. WASTE WATER DRAINAGE SYSTEM
10 OVERHEAD WATER TANK – 500 LITRES

PLOT AREA- 0.13 Ac. (1962.27 MTR.)
PLINTH AREA OF EACH HOUSE= 802 SQ. FT.

PLAN OF RESIDENTIAL HOUSE

Land Acquisition Officer Sambalpur

Sub-Collector Sambalpur

Collector Sambalpur

COMMON AMENITIES IN THE COLONY
A. HOUSING BUILDINGS (118 QTY)
B. TEMPLE COMPLEX
C. UGML SCHOOL
D. COMMUNITY CENTER
E. HEALTH CENTER
F. ANGANWADI CENTER
G. MARKET COMPLEX
H. VETERINARY CENTER
I. ELECTRICAL SUB STATION
J. STP
K. OVER HEAD TANK/BORE WELL
L. PLAY GROUND (72x65)
M. GARBAGE DUMPING
N. POND
O. CREMATION GROUND (9X6 Mtr.)

GREEN FIELD AREA- 7.269 Ac. (29413 SQM)

REV NO	DATE	DESCRIPTION	BY	APPROVED
		REVISIONS		

ITEM NO	DESCRIPTION	MATERIAL	QTY	WEIGHT IN KG	REMARKS

TITLE: R & R COLONY (KHADIAPALI VILLAGE)
MASTER LAYOUT PLAN

BPSL BHUSHAN POWER & STEEL (A JSW GROUP OF COMPANY)
Vill. Rankipali, Teh. Rengali, Lapanga – 768232, Dist. – Sambalpur (Odisha), India.

PROJECT: R&R COLONY

DRAWN BY	K.P. TIWARI
CHECKED BY	NRK
PASSED BY	---
APPROVED BY	---

SCALE: 1:1
DATE: 22.02.2025
DRG NO: BPSL-R&R-MP-001
SHEET: 1 OF 1
SIZE: A1
REV: 0

ANNEXURE-'A'

PROJECT DISPLACED FAMILIES LIST WHO ARE RESIDING OVER PRIVATE LAND W.R.T ACQUISITION OF LAND FOR BPSL IN VILLAGE KHADIAPALI.

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
1	152	484	0.10	Sushil Kumar Meher S/o Late Dinabandhu Meher	Self	(Bhulia) OBC	Male	02.06.1966 58Yrs	10th Fail	Married	Working at BPSL under GMCL	Aadhar No-342690870366	1
	MOB:-7894391870			Binodini Meher	Wife		Female	02.01.1975 49 Yrs	5th Pass	Married	House Wife	Aadhar No-544814325638	
				Bhabani Shankar Meher	Son		Male	06.03.1993 29 Yrs	(+2) Science Diploma (Mechanical), Comuter ADCA	Unmarried	Studying	Aadhar No-936300173569	2
				Puja Meher	Daughter-in-law		Female	02.06.1999 25 Yrs	+2	Married	House wife	Aadhar No-604164821467	
				Sanju Meher w/o-Prabhat Meher R/O--Durlaga	Daughter		Female	08.06.1996 28 Yrs	(+2) Arts	Married	House Wife	Aadhar No-511243873587	
				Ativa Meher	Daughter		Female	15.11.2000 22 Yrs	BA	Unmarried	Studying	Voter ID-YYX1104453	3
2	152	484	0.10	Satyaban Meher S/o Late Dinabandhu Meher	RT	(Bhulia) OBC					DEAD		
	MOB-7978908330			Bijli Meher (Dead)	Wife						DEAD		
				Sripati Meher	Son		Male	08.06.1983 41 yrs	10 th Pass /Computer ADCA ITI Mechanical fitter	Married	Pvt Job under Contractor (Aditya Birla)	Aadhar No-591542049868	4
				Sandhya Meher	Daughter in law		Female	13.09.1991 33yrs	10th Pass	Married	House Wife	Aadhar No-461928948026	
				Niki Meher	Grand Daughter		Female	12 Yrs	Class-6	Unmarried	Studying		
				Tejas Meher	Grand Son		Male	4 Yrs					
				Bhagirathi Meher	Son		Son	20.06.1993 31yrs	10th Fail	Married	Driver (Private)	Aadhar No-639552795977	5
				Sunita Meher	Daughter in law		Female	01.01.1992 30 Yrs	10 th Fail	Married	House Wife	Aadhar No-936622026622	
				Renuka Meher	Grand Daughter		Female	16.12.2016 6yrs	Class-I	Unmarried	Studying	Aadhar No-946744646891	
				Sanjana Meher	Grand Daughter		Female	3yrs					
				Babita Meher	Grand Daughter		Female	1yr					
	152	484	0.10	Kanhu Meher S/o Late Dinabandhu Meher	Self	OBC	Male	20.10.1972 52 yrs	10th Fail	Married	Auto Driver	Aadhar No-[illegible]8511370306 Voter ID-OR/18/130/204380	
	MOB-9777862758			Kalpana Meher	Wife		Female	19.04.1977 47 yrs	10th Fail	Married	House Wife	Aadhar No-[illegible]0720222140 Voter Id-[illegible]H1927755	

Seal & Signature

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	
				Jyotsnarani Meher	Daughter		Female	08.04.2002 22 yrs	BA	Unmarried	Studying	Aadhar No-609109429614	
				Tarun Meher	Son		Male	20.02.2006 18 yrs	10th pass	Unmarried	Studying	Aadhar No-313173516935	8
				Tushar Meher	Son		Male	20.02.2006 18 yrs	10th pass	Unmarried	Studying	Aadhar No-295862597712	9
4	4	680	0.32	Sushama Meher D/o Late Kutartha Meher	Self	OBC	Female	12.05.1972 52 Yrs	5th Class	Married	Housewife	Aadhar No-834097566347	10
MOB:-8456968973				Akura Meher	Husband		Male	56 Yrs	7th Class	Married	Under Contractor in BPSL		
				Rabindra Kumar Meher	Son		Male	24.02.1988 36 Yrs	10th Fail	Unmarried	PVT Job	Aadhar No-636883855918	11
				Kunti Meher w/o-Biswakurma Meher	Daughter		Female	17.02.1991 33 Yrs	+3	Married	Housewife	Aadhar No-217590245634	
5	172	681/1606	0.06	Bhismadev Meher S/o Late Sambharu Meher							DEAD		
				Satyabati Meher	Wife		Female	23.03.1983 41 yrs	10th Fail	Married	House wife	Aadhaar No-446051036226	12
				Mausumi Meher	Daughter		Female	02.09.1997 27 yrs	PG	Married	Job in JSG Airport	Aadhaar No-758793385171	13
				Pallabi Meher	Daughter		Female	08.10.1999 24 Yrs	PG	Unmarried	Studying	Aadhaar No-678713530008	14
				Raja Meher	Son		Male	19-02-2003 21 yrs	+3	Unmarried	Pvt Job	Aadhaar No-281037887065	15
6	172	681/1606	0.06	Nabin Chandra Meher S/o Late Sambharu Meher	Self	OBC	Male	12.03.1960 65yrs	10th Fail	Married	Fabrication Business	Aadhaar No-345962316743	16
				Purnima Meher	Wife		Female	21.04.1963 61yrs	5th Pass	Married	House wife	Aadhaar No-514620141193	
				Sunita Meher	Daughter		Female	05.04.1980 44yrs	P.G (Pol sc)	Unmarried	Studying	Aadhaar No-456845229242	17
MOB:-99380-39639				Braja Kishor Meher	Son		Male	09.06.1988 36yrs	Graduation in Forestry	Unmarried	No Job (Paralysis)	Aadhaar No-394967593580	18
				Rina Meher	Daughter-in-law		Female	05.07.1993 28yrs	BA	Married	House wife	Aadhaar No-448893594541	
				Jaynarayan Meher	Grand Son		Male	9yrs	Class 2	Unmarried	Studying		
	60	477	0.81	Rabichandra Meher S/o Late Kunjalal Mehe	Self	OBC	Male	21.02.1969 55yrs	10th Fail	Married	Contractor	Aadhar No-[illegible]7881731	19
				Sushan[illegible] Meher	Wife		Female	15.02.1976 48 yrs	9th Pass	Married	House wife	Aadhar No-[illegible]214487	

D No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
7	MOB:-7008705446			Ashish Meher	Son		Male	20.05.1997 27 yrs	B.Tech	Unmarried	Studying	Aadhar No-402023063771	20
8				Amit Meher	Son		Male	22.12.1999 25 yrs	B.Tech	Unmarried	Pvt job	Aadhar No-842026893610	21
9	51,52 53,160 161	473	0.08	Achyutananda Rohidas S/o Late Laxmidhar Rohidas							DEAD		
	MB:-9438866762 MB:-8280064737			Subasini Rohidas	Wife		Female	01.05.1953 71yrs	7th Class	Married	House wife	Aadhaar No-917930171451	22
				Mitrabhanu Rohidas	Son		Male	18.02.1981 43yrs	B.Com	Married	Jr. Oficer in BPSL	Aadhaar No-645255185443	23
				Saraswati Rohidas	Daughter in law		Female	04.10.1983 41yrs	7th Class	Married	House wife	Aadhaar No-395828262644	
				Bhupati Rohidas	Grand Son		Male	07.05.2007 17yrs	Class-9	Unmarried	Studying	Aadhaar No-972874794281	
				Pitambar Rohidas	Grand Son		Male	23.05.2010 14yrs	Class-5	Unmarried	Studying	Aadhaar No-819911752244	
				Chitrabhanu Rohidas	Son		Male	18.06.1986 38yrs	MCA	Married	Self Employed	Aadhaar No-748266855852	24
				Hemanti Rohidas	Daughter in law		Female	10.06.1991 33yrs	BA	Married	House wife	Aadhaar No-312740968303	
				Jagyaseni Rohidas	Grand Daughter		Female	10 yrs	Class-2	Unmarried	Studying		
				Priyanshi Rohidas	Grand Daughter		Female	8 yrs	Class-I	Unmarried	Studying		
				Devansh Rohidas	Grand Son		Male	1 6 Yrs					
				Indumati Rohidas	Daughter		Female	14.05.1976 48yrs	Class 5th	Unmarried	Hadicapped	Aadhaar No-955593959667	25
	204/110 204/59 204/87 67	468	0.72	Bibhisan Rohidas S/o Late Hita Rohidas	Self	SC	Male	10.04.1963 61yrs	Illiterate	Married	Cultivation	Aadhaar No-746044150867	26
	MOB:-9938022852 9938721703			Uma Rohidas	Wife		Female	15.08.1970 54 yrs	Illiterate	Married	House wife	Aadhaar No-385775136981	
				Jenamani Rohidas	Son		Male	07.01.1983 41yrs	10th Fail	Married	Business	Aadhaar No-716848922323	27
				Puspanjali Rohidas	Daughter in law		Female	18.06.1987 37yrs	5th Class	Married	House wife	Aadhaar No-376737550334	
				Dedamati Rohidas	Grand Daughter		Female	26.08.2008 16yrs	Class 10	Unmarried	Studying	Aadhaar No-650263621830	
				Umakanta Rohidas	Grand Son		Male	15.10.2011 13yrs	Class-8	Unmarried	Studying	Aadhaar No-927545015136	
				Sibashankar Rohidas	Son		Male	10.08.1988 39 yrs	10th Fail	Married	Business	Aadhaar No-978861791365	28
				Chetanata Rohidas	Daughter in law		Female	01.01.1991 31 yrs	7th Class	Married	House wife	Aadhaar No-967335017919	

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	
				Pratima Rohidas	Grand Daughter		Female	07 12 2012 12yrs	Class-6	Unmarried	Studying	Aadhaar No-588751225442	
				Rupali Rohidas	Grand Daughter		Female	27 09 2014 10 Yrs	Class-5	Unmarried	Studying	Aadhaar No-773122406457	
				Pramod Rohidas	Grand Son		Male	15 06 2016 8yrs	Class-3	Unmarried	Studying	Aadhaar No-750553984406	
				Sebati Rohidas	Daughter		Female	36 yrs	Illiterate	Married	Housewife		
10	204/57 & 67	468	0 72	Bikram Rohidas S/o Late Hita Rohidas	Self	SC	Male	20 10 1974 50 Yrs	Illiterate	Married	Cultivation	Aadhar No-341114004404	29
MOB:-7205161849				Hema Rohidas	Wife		Female	10 05 1984 40 yrs	Illiterate	Married	House wife	Aadhar No-907518799044	
				Chaitanya Rohidas	Son		Male	04 08 1996 28yrs	10th & ITI, Diploma, PGDCA	Unmarried	Pvt job in BPSL under contractor	Aadhar No-708264553261	30
				Sukanti Rohidas w/o-Sumanta Rohidas R/O--Patrapali	Daughter		Female	10 05 1994 30yrs	(+2)	Married	House wife	Aadhaar No-502865525462	
				Sujata Rohidas	Daughter		Female	05 08 1999 25yrs	(+2)	Unmarried	Studying	Aadhar No-678447235488	31
				Sumitra Rohidas W/o-Manoj Rohidas R/O--Patrapali	Daughter		Female	10 06 1991 24 yrs	10th	Married	House wife	Aadhar No-264509594187	
11	67	468	0 72	Biranchi Rohidas S/o Late Hita Rohidas	Self	SC	Male	01 011976 48yrs	Illiterate	Married	Labourer	Aadhar No-232431722494	32
				Nalini Rohidas	Wife		Female	17 031985 39yrs	Illiterate	Married	House wife	Aadhar No-264607220935	
MOB:-8917221902				Kholan Rohidas	Son		Male	08 05 1999 25yrs	Diploma (Mech) PGDCA	Unmarried	no job	Aadhar No-450869539636	33
				Dhaleswari Rohidas	Daughter		Female	07 12 2002 22 yrs	+3 III year	Unmarried	Studying	Aadhar No-422209543332	34
12	67	468	0 72	Ashok Rohidas S/o Late Hita Rohidas	Self	SC	Male	19 06 1976 48yrs	Class 5th	Married	Cultivation	Aadhar No-390159592057	35
MOB:-9556073097				Sulochana Rohidas	Wife		Female	03 07 1980 44 yrs	Class 3	Married	House wife	Aadhar No-884473407100	
				Chinmaya Rohidas	Son		Male	(07 02 2003 21 yrs	Diploma(Elec)	Unmarried	Studying	Aadhar No 664181252505	36
				Khetramohan Rohidas	Son		Male	(18 09 2004 20 yrs	10th pass	Unmarried	Studying	Aadhar No 712494058604	37
				Kiran Rohidas	Son		Male	07 07 2006 18yrs	10th pass	Unmarried	Studying	Aadhar No-759657642245	38

	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
13	67	468	0.72	Khageswar Rohidas S/o Late Hita Rohidas	Self	SC	Male	25.12.1988 36yrs	Class 5th	Married	Cultivation	Aadhaar No-370158447027	39
	MOB:-78947-20601			Debaki Rohidas	Wife		Female	10.07.1990 34 yrs	Class 3	Married	House wife	Aadhaar No-385565664507	
				Jugeswar Rohidas	Son		Male	31.12.2013 11 yrs	Class 6	Unmarried	Studying	Aadhaar No-493575457371	
				Jayanti Rohidas	Daughter		Female	11.04.2007 17yrs	Class-+2	Unmarried	Studying	Aadhaar No-921189495880	
				Gitanjali Rohidas	Daughter		Female	17.05.2009 15yrs	Class-10	Unmarried	Studying	Aadhaar No-718336835627	
14	67	468	0.72	Jugal Rohidas S/o Late Likeswar Rohidas	Self	SC	Male	(20-04-1959) 65 yrs	Illiterate	Married	Cultivation	Aadhaar No-722367423246	40
	MOB:-8457022132 MOB:-9556646005			Kalabati Rohidas	Wife		Female	(20-08-1963) 61 yrs	Illiterate	Married	House wife	Aadhaar No-745867745144	
				Janmejaya Rohidas	Son		Male	(09-03-1983) 41 yrs	10th Fail	Married	Jr Technician in BPSL	Aadhaar No-750634000555	41
				Raj Kumari Rohidas	Daughter in law		Female	(02-05-1991) 33 yrs	(+2) Pass	Married	House wife	Aadhaar No-301235233414	
				Krishna Rohidas	Grand Son		Male	(19-09-2010) 14 yrs	Class-7	Unmarried	Studying	Aadhaar No-871868609430	
				Gunjan Rohidas	Grand Daughter		Female	(10-03-2013) 11 yrs	Class-6	Unmarried	Studying	Aadhaar No-548239270224	
				Gayatri Rohidas	Grand Daughter		Female	(18-08-2016) 8 yrs	Class-3	Unmarried	Studying	Aadhaar No-213885433216	
				Ishwar Rohidas	Son		Male	(04.07.1990) 34 yrs	(+2) Pass	Married	self employed	Aadhaar No-836955148415	42
				Sanju Rohidas	Daughter in law		Female	(08-05-1992) 32 yrs	+2	Married	House wife	Aadhaar No-735771519198	
				Dubraj Rohidas	Grand Son		Male	(21-02-2015) 9 yrs	Class-3	Unmarried	Studying	Aadhaar No-629887694131	
				Labkishor Rohidas	Grand Son		Male	3 Yrs	xxxxxxxxx	xxxxxxx	xxxxxx		
				Bilasini Rohidas w/o-Durjodhan Rohidas R/O--Sripura	Daughter		Female	43yrs	Illiterate	Married	House wife		
				Usha Rohidas, w/o-Late Sushil Rohidas R/O--Sarbahal	Daughter		Female	39yrs	Class VII	Married	House wife		
				Mahima Rohidas w/o-Raghunath Rohidas R/O--Loisinga, Bolangir	Daughter		Female	37 yrs	Class 10th	Married	House wife		
	204/89	471	0.08	Khata Rohidas W/o Late Hita Rohidas	Self	SC	Female	91 Yrs	Class 2	Widow	Unemployed		43

Sumi Likumdar

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	
16	80, 204/49	421	0.18	Saudagar Padhan S/o Late Janardan Padhan	Self	OBC	Male	01.01.1950 74yrs	Class 6th	Married	Cultivation	Aadhar No-711981150963	44
MOB:-6378300803				Gulapi Padhan	Wife		Female	04.03.1960 65yrs	Class 5th	Married	House wife	Aadhar No-815109649951	
				Chaturbhuja Padhan	Son		Male	05.07.1975 49yrs	Class -2	Married	Cultivation	Aadhar No-738436585696	45
				Padmini Padhan	Daughter in law		Female	26.04.1982 43yrs	Class 5th	Married	House wife	Aadhar No-661019881879	
				Kanha Padhan	Grand Son		Male	08.11.2008 16yrs	Class-10	Unmarried	Studying	Aadhar No-934128997550	
				Antaryami Padhan	Son		Male	01.01.1979 45yrs	10th Pass	Married	Cultivation	Aadhar No-202951359259	46
				Paramita Padhan	Daughter in law		Female	09.03.1990 35yrs	10th Fail	Married	House wife	Aadhar No-333016770669	
				Krishna Pradhan	Grand Son		Male	24.03.2014 11yrs	Class-6	Unmarried	Studying	Aadhar No-382360479897	
17	12,204/46 & 204/65	420	0.62	Bhikari Charan Pradhan S/o Late Ujagar Pradhan	Self	OBC	Male	05-05-1963 61yr	10th Pass	Married	Service In MCL(Jr.Clerk)	Voter ID-YYX1053354 Aadhar-817755104193	47
				Sarojini Padhan	Wife		Female	03-04-1969 54yr	7th Pass	Married	House wife	Aadhar No-284605963715	
18	12,204/46 & 204/65	420	0.62	Bhaktaram Pradhan S/o Late Ujagar Pradhan	Self	OBC	Male	03.07.1970 54yrs	Class 7th	Married	Cultivation	Aadhar No-751483881184	48
MOB:-7847063308				Khitisuta Pradhan	Wife		Female	18.07.1975 49 Yrs	Class 8th	Married	House wife	Aadhar No-299523141242	
				Kailashini Pradhan w/o-Langaraj Pradhan R/O--Nuaburda,Mudhenpali, SBP	Daughter		Female	08.01.1993 31yrs	+2	Married	House wife	Aadhar No-505427298346	
				Jayanta Kumar Pradhan	Son		Male	12.02.1994 30 yrs	10th Pass	Unmarried	Studying	Aadhar No-347809963426	49
19	12,204/46 & 204/65	420	0.62	Jagta Pradhan S/o Late Ujagar Pradhan	Self	OBC	Male	18.12.1970 54 Yrs	Class 7th	Married	Cultivation	Aadhar No-772703900497	50
MOB -9937543143				Padmini Pradhan	Wife		Female	06.03.1974 49 Yrs	Class 6th	Married	House wife	Aadhar No-827389955436	
				Dayasagar Pradhan	Son		Male	32 Yrs (14-07-1992)	Diploma (Mechanical)	Unmarried	Pvt Job	Aadhar No-886026366843	51

(Sunil Pikaudhan)

	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
			Bhujeswari Pradhan	Daughter in law		Female	24.12.1995 29 Yrs	BA	Married	House wife	Aadhar No-800043539291	
			Lavyansh Pradhan	Grand Son		Male	3.6 Yrs	xxxxxx	xxxxxx	xxxxxx		
			Rinu Pradhan	Daughter		Female	26 Yrs	(+3) (Arts)	Married	Studying		
20	12,204/46 & 204/65	420	0.62	Hajari Pradhan S/o Late Ujagar Pradhan	Self	OBC	Male	12-10-1975 49 yrs	10th Fail	Married	Cultivation	Aadhar No -964940677168	52
MOB:-9777606797				Mamata Pradhan	Wife		Female	10-02-1980 44 yrs	10th Pass	Married	House wife	Aadhar No-481343402286	
21	91	457 455	1.04	Dhruba Pradhan S/o Late Madan Pradhan							DEAD		
IOB:-9777631355				Kartika Pradhan	Son		Male	12.03.1960 64yrs	Class 5th	Married	Cultivation	Aadhar No-741832716221 Voter-ID-OR/18/130/204441	53
				Panchami Pradhan W/o Kartika	Daughter in Law		Female	12.10.1982 42 yrs	Class 4th	Married	House wife	Aadhar No-369841795226 Voter-ID-JFH1927805	
				Anil Pradhan	Grand Son		Male	10.06.1995 29yrs	Matric Fail	Unmarried	Unemployed	Aadhar No-261922582740 Voter-ID-YYX0709022	54
				Sunil Pradhan	Grand Son		Male	08-07-1998 26yrs	ITI, computer	Unmarried	Pvt. Job	Aadhar No-817338701490 VoterID-YYX0867135	55
				Ranjan Pradhan	Son		Male	01.01.1975 49yrs	Class 5th	Married	Cultivation	Aadhar No-798646975109 Voter ID-OR/18/130/204442	56
				Rukmani Pradhan	Daughter in Law		Female	25.08.1980 44yrs	Class 5th	Married	House wife	Aadhar No-505194189611 Voter-JFH1927813	
				Rasmita Pradhan	Grand Daughter		Female	05.10.2003 21yrs	B.A , Computer	Unmarried	Unemployed	Aadhar No-285455284289	57
				Karishma Pradhan	Grand Daughter		Female	30.04.2009 15yrs	Class 10th	Unmarried	Studying	Aadhar No-642291875162	
				Ashok Pradhan	Son		Male	03.07.1977 47yrs	Class 7th	Married	Cultivation	Aadhar No-294996702297	58
				Sanjukta Pradhan	Daughter in Law		Female	18.07.1984 40yrs	Class 7th	Married	House wife	Aadhar No-830654611544	
				Bharadwaj Pradhan	Grand Son		Male	29.08.2009 15 Yrs	Class 10	Unmarried	Studying	Aadhar No-889194561171	
				Rani Pradhan	Grand Daughter		Female	9 Yrs	Class 4	Unmarried	Studying		
22	91	455	1.04	Sukadeb Pradhan S/o Natabara Pradhan	Self	OBC	Male	12.06.1939 85 Yrs	Illiterate	Married	Cultivation	Aadhar No-834453127260	59
MOB:-9777631355 MOB:-8227966152				Rekha Pradhan	Wife						DEAD		
				Ananda Pradhan	Son		Male	01.01.1970 54 Yrs	10th Fail	Married	Cultivation	Aadhar No-510151742322	60

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	
				Prabhasini Pradhan	Daughter in Law		Female	15 07 1973 51 Yrs	10th fail	Married	House wife	Aadhar No-694497444262	
				Radhakanta Padhan	Grand Son		Male	03 10 1996 28 Yrs	10th +ITI	Unmarried	Not working	Aadhar No-601310427616	61
				Balaram Pradhan	Grand Son		Male	05 06 1993 31 Yrs	10+,ITI, Diploma	Unmarried	Not working	Aadhar No-207276079337	62
				Murali Pradhan	Son		Male	15 06 1979 45 Yrs	7th pass	Married	cultivation	Aadhar No-457315247311	63
				Prabhasini Pradhan	Daughter in Law		Female	16 08 1983 41 Yrs	10th fail	Married	House wife	Aadhar No-837182345847	
				Om Pradhan	Grand Son		Male	03 11 2005 19Yrs	+2	Unmarried	Studying	Aadhar No-671582507822	64
				Sabitri Pradhan	Grand Daughter		Female	(10 04 2003) 21 Yrs	+2	Unmarried	Studying	Aadhar No-492946375169	65
				Daitari Pradhan	Son		Male	18 03 1978 46 Yrs	10th fail	Married	cultivation	Aadhar No-466206334484	66
				Ullasini Pradhan	Daughter in Law		Female	12 06 1981 43 Yrs	+2	Married	House wife	Aadhar No-218584061812	
				Pulakita Pradhan	Grand Son		Male	17 11 2006 18 Yrs	+2	Unmarried	Studying	Aadhar No-210499169671	67
				Chumki Pradhan	Grand daughter		Female	26 12 2009 15 Yrs	Class-9th	Unmarried	Studying	Aadhar No-725636626764	
23	80	439	0.22	Satyaban Pradhan S/o Udaykar Pradhan	Self	OBC	Male	17 07 1965 59yrs	Class I	Married	cultivation	Aadhar No-923995812049	68
				Sabitri Pradhan	Wife		Female	53 Yrs		Married	House wife		
				Pradip Pradhan	Son		Male	28 Yrs	ITI	Unmarried	Business		69
				Aruna Pradhan	Daughter		Female	30 Yrs	DIPLOMA	Unmarried	Pvt job		70
				Tikeswar Pradhan	Son		Male	26 Yrs	ITI	Unmarried	Studying		71
24	80	439	0.22	Mangal Pradhan S/o Udaykar Pradhan	Self	OBC	Male	05 05 1970 54 Yrs	10th fail	Married	Working in BPSL	Aadhar No-452454595014	72
	MOB:-9937429034			Gitanjali Pradhan	Wife		Female	04 09 1974 50 Yrs	10th fail	Married	House wife	Aadhar No-258151571409	
25	37	419	0.05	Narayan Rout S/o Dileswar Rout	Self	OBC	Male	07 03 1970 54yrs	Matric Fail	Married	Cultivation	Aadhar No 227944173797	73
	MOB:-9178343832			Sumati Rout	Wife						DEAD		
				Meghanad Rout	Son		Male	14 021987 37yrs	Matric Fail	Married	Working in BPSL	Aadhar No 96[illegible]459004	74
				Swagatika Rout	Daughter in law		Female	05 01 1995 29yrs	Matric Fail	Married	House wife	Aadhar No 32[illegible]47953	
				Priyanshi Rout	Grand Daughter		Female	18 11 2016 8ys	Class	Unmarried	Studying	Aadhar No 55[illegible]61568	
				Priyansh Rout	Grand Son		Male	2.6 yrs					

Pikandar

Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
			Sunita Rout w/o-Sanjay Sahu, R/O--Sankarma	Daughter		Female	05.03 1993 31yrs	BA,Computer	Married	House wife	Aadhar No-587671278900	
			Babita Naik w/o-Jubaraj Naik, R/O--Gambharipank	Daughter		Female	03.08 1989 35yrs	10th	Married	House wife	Aadhar No-541907686934	

Land Acquisition Officer
Sambalpur

Additional District Magistrate
Sambalpur

District Magistrate & Collector
Sambalpur

Deputy Development Commissioner
Mahanadi Coalfields Limited, Odisha
Sambalpur

0p/3

ANNEXURE-'B'

PROJECT DISPLACED FAMILIES LIST WHO ARE RESIDING OVER GOVT. BASTI LAND W.R.T ACQUISITION OF LAND FOR BPSL IN VILLAGE KHADIAPALI.

I. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No.
1	211	677	0.16	Khirodra Meher S/o Late Raghumani Meher	Self	OBC	Male	12.07.1947 77 yrs	6th Fail	Married	Cultivation	Aadhaar No-861328681484	75
MOB:-9937542962				Purnabasi Meher	Wife		Female	18.02.1950 74yrs	Class-IV	Married	House wife	Aadhaar No-683543470048	
				Durga Prasad Meher	Son		Male	03.08.1967 57yrs	10th Fail	Married	No job	Aadhaar No-924482233946	76
				Surya Kumari Meher	Daughter in Law		Female	06.06.1988 36yrs	10th Fail	Married	House wife	Aadhaar No-410971821907	
				Nilima Meher w/o-Asim Meher R/O--Patnagarh	Grand Daughter		Female	11.05.1997 27yrs	B A	Married	House wife	Aadhaar No-460420000846	
				Dali Meher w/o-Sudhir Meher R/O--Gobindpali, Bargarh	Grand Daughter		Female	19.11.1999 25yrs	B.Sc	Married	House wife	Aadhaar No-588684579284	
				Damodar Meher	Son		Male	02.10.1969 55 yrs	10th fail	Married	Business/ Cultivation	Aadhaar No-579032388630	77
				Puspanjali Meher	Daughter in law		Female	01.08.1973 51yrs	10th fail	Married	House Wife	Aadhaar No-783124215052	
				Hemangini Meher	Grand Daughter		Female	17.12.1997 27yrs	P.G	Unmarried	Studying	Aadhaar No-455902179039	78
				Monalisha Meher	Grand Daughter		Female	01.09.2003 21yrs	+2	Unmarried	Studying	Aadhaar No-435748058899	79
				Subrat Meher	Grand Son		Male	21.01.2007 18yrs	Class-8	Unmarried	Studying	Aadhaar No-216401659802	80
				Dasarathi Meher	Son						DEAD		
				Santoshini Meher W/o Dasarathi Meher	Daughter in law		Female	14.02.1979 45yrs	10th Fail	Married	House wife	Aadhaar No-886947484735	81
				Rashmi Meher	Grand Daughter		Female	11.10.2006 18yrs	10TH Class	Unmarried	Studying	Aadhaar No-614131733574	82
2	211	581	0.19	Gouridas Mishra S/o Late Jagdish Mishra	Self	General	Male	18.03.1974 50 yrs	9th Pass	Married	Cook in BPSL	Aadhar No-361437656903	83
MOB:-9777632603				Namita Mishra	Wife		Female	14.06.1982 41 yrs	10th fail	Married	House wife	Aadhar No-425678504650	
				Ankita Mishra	Daughter		Female	05.08.2002 22 yrs	10th fail	Unmarried	Studying	Aadhar No-526675366660	84
3	211	581	0.19	Debidas Mishra S/o Late Jagdish Mishra	Self	General	Male	15.08.1961 63 yrs	10th fail	Married	Cook in BPSL	Aadhar No-410135873413	85
				Subasini Mishra	Wife		Female	01.01.1969 55 yrs	5th Class	Married	House wife	Aadhar No-876702941179	

(Sunil Sikaridar)

				Namita Mishra w/o-Raju Sarangi	Daughter		Female	23.07.1997 27 yrs	(+2) Pass	Married	House wife	Aadhar No-632211670481	
4	211	561	0.19	[redacted] S/o Late Mita Naik	Self	ST	Male	89 Yrs	Illiterate	Married	Labourer	Aadhar No-40315763174	86
MOB:-7684077341				Sushila Naik							DEAD		
				[redacted]	Son		Male	04.02.1955 69 Yrs	Illiterate	Married	Labourer	Aadhar No-209198847515	87
				Laxmi Naik	Daughter in law		Female	15.07.1980 44 Yrs	Illiterate	Married	House wife	Aadhar No-595919761893	
				[redacted]	Grand Daughter		Female	13.07.2001 23 Yrs	+2	Unmarried	Studying	Aadhar No-201218944274 Voter Card -YYX1163328	88
				[redacted]	Grand Daughter		Female	02.08.2006 18 Yrs	+2	Unmarried	Studying	Aadhar No-957960071824	89
				Pratap Naik	Grand Son		Male	13.06.2010 14 Yrs	Class-09	Unmarried	Studying	Aadhar No-710845112614	
5	211	677	0.16	[redacted] S/o Late Sambharu Meher	Self	OBC	Male	08.07.1966 58 yrs	Post Graduate (Pol.Sc)	Married	JE East cost Railway	Aadhar No-856799823941	90
MOB:-9438793746				Sushama Meher	Wife		Female	12.05.1975 49yrs	10th Pass	Married	House wife	Aadhar No-750305082844	
				[redacted]	Son		Male	17.08.1997 27yrs	MBA	Unmarried	PVT JOB	Aadhar No-312833304591	91
				[redacted]	Son		Male	02.06.1999 25yrs	CA	Unmarried	Business	Aadhar No-481775140347	92
				[redacted]	Daughter		Female	19.02.2003 21 yrs	B.Sc	Unmarried	Studying	Aadhar No-561560625478	93
6	211	677	0.16	[redacted] S/o Late Golbadan Meher	Self	OBC	Male	15.01.1960 64 yrs	7th Pass	Married	Business	Aadhar-683394720941 Voter ID-OR/18/130/204402	94
MOB:-9178282081				Jasoda Meher	Wife		Female	14.08.1965 59 yrs	5th Pass	Married	Housewife	Aadhar No-619345808706 Voter ID-JFH1927664	
				Soudamini Meher w/o-Sushanta Meher R/O--Jharagaon, Sundergarh	Daughter		Female	37 yrs	10th	Married	Housewife	Aadhar No-789549007530	
				Pankajini Meher w/o-Himanshu Meher R/O--Badmaal	Daughter		Female	20.06.1993 31 yrs	(+2) Pass	Married	Housewife	Aadhaar No-983435794680	
				Pravasini Meher w/o-Kusha Meher R/O--Golgunda	Daughter		Female	27.11.1994 30 yrs	(+3)	Married	Housewife	Aadhaar No-683915714041	
				Mandakini Meher	Daughter		Female	13.06.1997 27 yrs	Diploma (Civil)	Unmarried	Studying	Aadhar No-622409394719 Voter ID-YYX0867382	95

(Suny) Pkandolo

	211	677	0.16	Surendra Meher S/o Late Gotibandhu Meher	Self	OBC	Male	11.02.1984 40 yrs	8th Pass	Married	Business	Aadhar No-569923736724 Voter ID-OR/18/130/204899	96
				Sarita Meher	Wife		Female	24.08.1987 37 yrs	5th Pass	Married	House wife	Aadhar-509447462316 Voter ID-JFH1927656	
				Manas Meher	Son		Male	12.06.2004 20 yrs	+2	Unmarried	Studying	Aadhar No--914325269562	97
				Manasi Meher	Daughter		Female	(21.08.2000) 24yrs	B.A	Unmarried	Studying	Aadhar No-442157451031 Voter ID-YYX1101435	98
8	211	677	0.16	Kunja Bihari Meher S/o Late Kutharth Meher	Self	OBC	Male	01.10.1956 68 yrs	7th Pass	Married	Business	Aadhaar No-321425969612	99
	MOB:-9861346105			Kailasini Meher	Wife		Female	01.01.1969 65yrs	Class 3	Married	Housewife	OR/18/130/204408	
				Sanjib Kumar Meher	Son		Male	08.07.1983 41yrs	B.A Pass	Married	Unemployed	Aadhaar No-699083935436	100
				Santosini Meher W/o Sanjib Meher	Daughter in law		Female	01.01.1988 35 yrs	10th Pass	Married	Housewife	Aadhaar No-838602111639	
				Poonam Meher	Grand Daughter		Female	23.08.2012 12 yrs	Class-4	Unmarried	Studying	Aadhaar No-227871308678	
				Manisha Meher	Grand Daughter		Female	6 Yrs	Class-2	Unmarried	xxxxxx		
				Ajit Meher	Son		Male	16.05.1986 38yrs	10th Fail	Married	operator Aditya Birla	Aadhaar No:-909397003041	101
				Urmila Meher	Daughter in law		Female	24.02.1993 31yrs	10th Pass	Married	Housewife	Aadhaar No-588106118641	
				Pinky Meher	Grand Daughter		Female	11 Yrs	Class-6	Unmarried	Studying		
				Sumit Meher	Grand Son		Male	7 Yrs	Class-1	Unmarried			
				Debendra Meher	Son		Male	07.05.1992 32 yrs	10th Fail	Unmarried	No Job	Aadhaar No-541438149684	102
				Mali Meher	Daughter in law		Female	18.08.1997 27yrs	10th Fail	Married	Housewife	Aadhaar No-828260407729	
				Sourav Meher	Grand Son		Male	3yrs					

(Sunil Sivanjam)

Additional District Magistrate

02/03

ANNEXURE-'C'

PROJECT DISPLACED FAMILIES LIST WHO ARE RESIDING OVER OTHERS LAND W.R.T ACQUISITION OF LAND FOR BPSL IN VILLAGE KHADIAPALI.

Sl. No	Khata No	Plot No	Area	Name of the Head of the Family and Family Members	Relation with the Head of the Family Member	Caste/ Tribe	Gender	Date of birth & Age in yrs	Qualification	Marital Status	Present Occupation	Aadhar No/Voter ID No	DP No
1	91	457	0.06	Premananda Biswal S/o Chudamani Biswal	Self	OBC	Male	07.01.1958 66yrs	Class 9th	Married	Business	Aadhar No-245653701385	103
MOB:-9937749437				Sritula Biswal	Wife		Female	01.01.1962 62 Yrs	Class-3	Married	House wife	Aadhar No-623928457341	
				Kousik Biswal	Son		Male	12.07.1986 38yrs	Class 9th	Married	Working in BPSL under GMCL	Aadhar No-6292246537247	104
				Monalisha Biswal	Daughter in law		Female	10.02.1989 38yrs	10th fail	Married	House wife	Aadhar No-421392259305	
				Akash Biswal	Grand Son		Male	13.06.2019 5yrs	Class-1	Unmarried	xxxx	Birth Certificate No-1869/2020	
2	80	418	0.48	Jagannath Nikandia S/o Late Malikram Nikhandia	Self	SC	Male	20.03.1964 57Yrs	Illiterate	Married	Labourer	Aadhar No-934651401839	105
MOB:-9178595770				Debaki Nikhandia	Wife						DEAD		
				Suresh Nikhandia	Son		Male	05.09.1986 38 Yrs	Class 8th	Married	Labourer	Aadhar No-880681691991	106
				Shibani Nikhandia	Daughter in Law		Female	01.01.1993 31 Yrs	10th Pass	Married	House wife	Aadhar No-452857831634	
				Tapan nikhandia	Grand Son		Male	24.01.2014 10Yrs	Class-6	Unmarried	Studying	Aadhar No-462017410409	
				Dhalisri Nikhandia	Grand Daughter		Female	02.08.2018 6 Yrs	Class-1	Unmarried	Studying	Aadhar No-576605641636	
				Shiva Nikhandia	Son		Male	01.01.1995 29 Yrs	Class 8th	Unmarried	Labourer	Aadhar No-753051103357	107
3	37	419	0.25	Dasarath Nikhandia S/o Late Malikram Nikhandia							DEAD		
				Kumodini Nikhandia	Wife		Female	16.01.1952 72 Yrs	Illiterate	Married	House wife	Aadhar No-963245229418	108
				Naresh Nikhandia	Son		Male	02.03.1986 38 Yrs	Matric fail	Married	Driver in BPSL	Aadhar No-768572314695	109
				Puspa Nikhandia	Daughter in Law		Female	06.08.1988 36 Yrs	Illiterate	Married	House wife	Aadhar No-531814768824	
				Barsha Nikhandia	Grand Daughter		Female	24.02.2010 14Yrs	Class-9	Unmarried	Studying	Aadhar No-373881946344	
				Rahul Nikhandia	Grand Son		Male	5.6yrs	Class-1	Unmarried	xxxxxx		
				Rabindra Nikhandia	Son		Male	01.02.1993 31 Yrs	Class 7th	Unmarried	Driver in BPSL	Aadhar No-482713174057	
				Iostina Nikhandia	Daughter in Law		Female	15.07.1994 30 Yrs	10th fail	Married	House wife	Aadhar No-560219731519	
				Dibyajyoti Nikhandia	Grand Son		Male	17.05.2019 5 Yrs	Class-1	Unmarried		Aadhar No-[illegible]	

[redacted]

4	28	584/1553	0.23	Gopal Dhurua S/o Late Rushi Dhurua								DEAD	
MOB:-9078269326				Kusum Dhurua	Wife		Female	25.07.1963 58yrs	Illiterate	Married	House wife	Aadhar No-911652749143	111
				Rajindra Dhurua								DEAD	
				Parbati Dhurua	Daughter in law		Female	32 Yrs	7th Class	Married	House wife	Aadhar No-8561683486788	112
				Bablu Dhurua	Grand Son		Male	30.03.2011 14yrs	Class-9	Unmarried	Studying	Aadhar No-612749986031	
				Baisnabi Dhurua	Grand Daughter		Female	26.06.2013 11 yrs	Class-6	Unmarried	Studying	Aadhar No-460173313246	
				Jogindra Dhurua	Son		Male	02.05.1984 40yrs	Illiterate	Married	Labourer	Aadhar-No-371098087143	113
				Seema Dhurua	Daughter in law		Female	01.01.1992 32yrs	10th Fail	Married	House wife	Aadhar No- 694120056744	
				Ayush Dhurua	Grand Son		Male	27.12.2012 12yrs	Class-7	Unmarried	Studying	Aadhar No--826808965752	
5	28	584/1553	0.23	Sudarshan Dhurua S/o Late Golbadan Dhurua							DEAD		
				Rangalata Dhurua (Dead)	Wife						DEAD		
				Markandha Dhurua	Son		Male	38 Yrs	6th Class	Married	Driver	Voter ID-YYX0709048	114
				Mandakini Dhurua	Daughter in law		Female	18.03.1988 36 Yrs	Illiterate	Married	House wife	Aadhar No-501825204267	
				Rama Dhurua	Grand Son		Male	17.07.2008 16 Yrs	Class-10 Fail	Unmarried	Unemployed	Aadhar No-292344909402	
				Krushna Dhurua	Grand Son		Male	04.03.2011 13 Yrs	Class-8	Unmarried	Studying	Aadhar No-514872135589	
				Kartika Dhurua	Son		Male	01.01.1990 34yrs	Illiterate	Married	Labourer	Aadhar No-371588334619	115
				Jharana Dhurua	Daughter in law		Female	33	10th Pass	Married	House wife		
				Sriya Dhurua	Grand Daughter		Female	22.04.2013 11yrs	Class-6	Unmarried	Studying	Aadhar No-668797707246	
6	28	584/1553	0.23	Balaram Dhurua (Dead) S/o Late Golbadan Dhurua		ST					DEAD		
				Uma Dhurua	Wife		Female	19.03.1970 54 Yrs	Illiterate	Married	Labourer	Aadhar No-799856385127	116
				Ganesh Dhurua	Son		Male	14.08.1984 40 yrs	10th fail	Married	Labourer	Aadhar No-912597281182	117
				Sujata Dhurua	Daughter in law		Female	12.02.1987 37 Yrs	10th Fail	Married	House wife	Aadhar No-486918629060	
				Alekha Dhurua	Son		Male	01.11.1983 41 Yrs	5th class	Unmarried	Labourer	Aadhar No-572403548720	118
				Santi Dhurua	Daughter		Female	15.07.1997 27 yrs	7th Class	Married	Unemployed	Aadhar No-443281447928	

Annexure-X

EPBX : 2561909/2562847
Email :paribesh1@ospcboard.org
Website : www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPT., OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,
Bhubaneswar 751012

No 21049 / IND-I-CON-(M)340 Dt 30.12.2021

By E-Mail /Speed Post

To

Concerned Industry

Sub : **Installation of CEMS in the stack and connection with the RT-DAS server of the Board-Reg.**

Sir,

With reference to above, this is inform you that, it is mandatory on the part of the industry to install continuous emission monitoring system (CEMS) and connect the same with the server of the SPCB and CPCB for transmission of online real time data relating to parameters like PM, SO_2, NOx, etc., depending on the category of the industry as per the guideline and direction of Central Pollution Control Board. It is observed that you have only installed CEMS in the stack attached to mainly ESPs/ GCPs. However, it is observed that the other emitting stacks attached to bag filters of different process areas have not been installed with CEMS.

Therefore, you are directed to install CEMS for online monitoring of particulate matter emission at the stacks attached to the lager bag filters of capacity 50,000 Nm^3/hr or more and connect the same with RT-DAS server of the Board within a period of 3 months. It may be mentioned that the methodology of measurement of PM and the CEMS devices for particulate matter emission monitoring must be TUV/MCERTS certified and comply with the guidelines of CPCB. The action taken report in this regard along with copy of the technical specification, work order, location details etc. shall be submitted to this office within a period of one month.

Yours faithfully,

MEMBER SECRETARY

Memo No. 21043 /dtd. 30.12.2021

Copy forwarded to the Regional Officer, SPC Board, ***Concerned RO*** for information and necessary action.

21/12/2021

CHIEF ENV. ENGINEER

Annexure- XI

ON-SITE EMERGENCY PLAN OF

Bhushan POWER & STEEL

BHUSHAN POWER & STEEL LIMITED,
(A JSW Group Company) BPSL Sambalpur
At: Thelkoloi, Tehsil: Rengali, District: Sambalpur, State: Odisha, Pin Code: 768212, India

Digitally signed by INDRAMANI TRIPATHY
Date: 2026.02.10 17:49:05 IST

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Annexure-XII

Compliance to the commitment made during Public Hearing on 17.02.2016 at 11.00 am for proposed expansion of steel plant from 3.0 to 5.5 MTPA with CCP capacity from 560 MW to 710 MW

#	Issue raised by public	Comments of the project proponent	Compliance to the public points
1.	The unit has adopt adequate Pollution control measures for Water & Air pollution. Reduce the pollution related to water & Air.	The industry will adopt adequate Pollution control measures to reduce the pollution to control limited as per the prescribed standard.	**Air Pollution & Fugitive dust Control Measures.** • Encapsulation type Material conveying system. ESP Electrostatic Precipitators (ESPs) with High Frequency Transformer Rectifier Technology (HFTR) and Bag Filters installed at major process units, junction houses, transfer buildings, and major plant processes, including Ash conditioner at ash unloading points. • Pneumatic Conveying Technology Adopted for raw material and ash handling system to minimize dust emissions. Telescopic chutes installed at feasible hoppers. • Water Sprinkling Systems installed at coal, iron circuit and ash transfer points. Gun sprinklers installed at raw material yards to further suppress dust. • Reduction of Material Spillage by installing sealing technology (double skirt rubber) and dust extraction systems in junction houses. • Maintenance and Housekeeping are being carried out by technical experts for continual improvement in housekeeping. • Wheel Washing Systems installed at the exit of ash silo area ,RMHS,Gate-4 & Gate-2. Recycling of washing water carried out to minimize water consumption.

			• Portable PM10 Analyzers have been installed strategically to monitor ground-level concentrations of PM10. • Industrial Vacuum Cleaner (IVC) installed at SMS for mechanical dedusting thereby reduction in manual cleaning efforts. • Wagon Tippler Dust Suppression system is in place during wagon tippling operations. • Mechanized Road Sweepers deployed for continuous cleaning of internal roads and shop floors. • Vehicles are covered with tarpaulin to prevent dust during transportation. **Waste Water (Effluent) Management Practices** All industrial effluents are treated in primary treatment plants within the steel plant and Waste Water Treatment Plant with Zero Effluent discharge. ➢ **Treated Water** is being reused for dust suppression, greenery development ash handling, makeup water for cooling towers. Treated process effluent is reused with ongoing efforts to improve water management efficiency through technology interventions. ➢ **Sanitary Sewage** treated in Sewage Treatment Plants (STPs) and reused for green belt development and Low-end applications within the plant. **Rainwater Harvesting** ➢ Two water reservoirs have a capacity of 200000 M3 and 134000 M3 which help in rainwater harvesting during monsoon. ➢ In addition, under its community-based rainwater harvesting and water conservation programme,

			the company has excavated and renovated 32 water bodies in the surrounding villages. These interventions have enhanced rainwater storage capacity, and improved groundwater recharge. **Solid waste Management:** • Sustainable ash management plan is being ensured by the following manner to sustain 100% ash utilisation as per fly ash notification. ➢ Used in national/state highway/ road construction. ➢ Supplied to local State Pollution Control Board (OSPCB) registered ash brick manufacturing units. ➢ Supplied to cement plant. ➢ Balance if any being used for reclamation of low-lying areas, adhering to CPCB/OSPCB guidelines. **SMS Slag Management** ➢ Separation of metallic from non-magnetic portion and sizing for various applications. ➢ Recovered Metallics used as scrap in steel making. ➢ Recovered Fines serve as a lime replacement in sinter making. Non-Magnetic Slag utilized in Cement manufacturing, Road construction and Hard sand applications
2.	The company should provide employment to the local people and reemployment of dismissed villagers on priority basis.	60 % of the local employees out of total employees working in the existing plant. The company gives emphasis for local employment.	The local employment is more than 60%.
3	The industry should take proper steps for land compensation and acquisition issues.	Noted	Necessary amount has already deposited for all the land compensation towards land acquisition and alienation of the project.
4	The industry should construct alternate ponds and alternate	The industry will complete water project within one year.	As per the approve R & R plan has been approved as an alternative

	roads before making boundary.		pond and road will be undertaken before boundary line. As per the approved master plan the requirement of pond and road is consider for the project displaced families of village Bhuliadihi (Khadiapali). As per the directives of DM & Collector Sambalpur vide letter No-460/Res/ dated:15.04.20211 an amount of Rs 5.17 cr was deposited has for supply of drinking water to the villages of rengali and its adjacent area under periphery development Scheme. The detail directive and compliances is attached as Annexure-
5	The company should give priority for Peripheral development and facilities to the local villages like road, school (education), water supply and Hospital (Health)	Peripheral development like road education water supply will be made to the effected villages as per the Rules and Regulations of the Government.	Company has made significant strides in its Corporate Social Responsibility (CSR) initiatives since acquiring the plant. Here's a brief overview of the key activities and impacts: ➢ Improved sanitary systems to promote hygiene. ➢ Pipeline water supply to surrounding villages ➢ Providing resources and facilities to enhance learning. ➢ Access to medical care and health programs. ➢ Improving connectivity and communication for better access to services. Further, CSR activities and its related expenditure has been substantially increased after acquisition of the industry by JSW Steel Limited to eenhanced facilities and services, to improved quality of life for local communities and to strengthened community trust and engagement. **Extensive Plantation:** Conducted tree planting drives in nearby villages to

			enhance green cover and improve the environment. **Health Check-up Camps:** Regular health check-up camps are organized in adjacent villages, promoting community health and well-being. **Road Construction and Repair:** Village roads are constructed and repaired based on community needs, improving accessibility. **Educational Support:** Schools in adjacent villages receive assistance in: ➢ Infrastructure development (e.g., school buildings, boundary walls) ➢ Provision of drinking water ➢ Study materials ➢ Remuneration for teachers
6	The industry should ensure proper Rehabilitation & Resettlement colonies and give compensation to the displaced families.	He also requested the district administration to give scope for Peripheral development within the areas 10 km from the plant.	R7R Plan has already been executed as per approval of DM & Collector upto 3.0 MTPA Project. The R& R plan for 5.5 MTPA further amended to 4.5 MTPA is under execution. The master plan of the has already been approved by DM & Collector.

Annexure-XIII

Summary of ambient air quality monitoring report
(Period of Oct'25 to Mar'26)

#	Location	PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	O_3	NH3	Pb	Ni	As	Benzene	Benzo (a) Pyrene
		100 ($\mu g/m^3$)	60 ($\mu g/m^3$)	80 ($\mu g/m^3$)	80 ($\mu g/m^3$)	2 ($\mu g/m^3$)	100($\mu g/m^3$)	400($\mu g/m^3$)	1($\mu g/m^3$)	20(ng/m^3)	6(ng/m^3)	5($\mu g/m^3$)	1(ng/m^3)
1	Station -1 Near Township	71 – 84	36 – 40	13.2 – 22	25.5 – 32	0.52 – 0.64	22.8 – 29.1	10.5 – 25.8	0.012 – 0.018	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5
2	Station -2 Near Railway Gate	79.8 – 96	36.4 – 55	21 – 26.7	26.2 – 38.9	0.58 – 1.05	22.8 – 24.4	13.2 – 28.4	0.022 – 0.026	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5
3	Station -3 Behind CRM	71.5 – 82	36.7 – 46	18.4 – 26.0	24.3 – 38.1	0.48 – 1.12	25.4 – 25.4	11.8 – 27.2	0.021 – 0.027	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5
4	Station -4 Near ETP	71 – 90	37 – 48	15.6 – 25.0	25 – 33	0.51 – 0.78	23.8 – 23.8	21 – 33.6	0.015 – 0.031	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5
5	Station -5 Near Tarini Mandir	71 – 79	38 – 44	17.3 – 29.0	18.7 – 35.0	0.55 – 0.65	27.7 – 27.7	11.8 – 29	0.018 – 0.022	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5
6	Station -6 Near RO ZLD, Opposite of CO#2,	72 – 94	33 – 53	19.8 – 29.7	23.5 – 38.3	0.63 – 1.05	21.8 – 28.1	13.4 – 32.8	0.017 – 0.034	<6.0 - <6.0	<2.0 - <2.0	<3.5 - <3.5	<0.5 - <0.5



Summary of stack monitoring report

(Period of Oct'25 to Mar'26)

SN	Units	Stack Name	Standard mg/Nm3 as per CTO conditions	Range (mg/Nm3)
1	DRI	DRI/WHRB-1	50.00	24 – 43
2		DRI/WHRB-2	50.00	25 – 40
3		DRI/WHRB-3	50.00	23 – 39
4		DRI/WHRB-4	50.00	21 – 39
5		DRI/WHRB-5	50.00	22 – 36
6		DRI/WHRB-6	50.00	19 – 30
7		DRI/WHRB-7	50.00	26 – 31
8		DRI/WHRB-8	50.00	28 – 36
9		DRI/WHRB-9	50.00	34 – 46
10		DRI/WHRB-10	50.00	28 – 39
11		DRI/WHRB-11&12	50.00	22 – 39
12		DRI De-dusting 1&2	50.00	40 – 46
13		DRI De-dusting 3&4	50.00	33 – 42
14		DRI De-dusting 5& 6	50.00	36 – 44
15		DRI De-dusting 7&8	50.00	32 – 45
16		DRI De-dusting 9&10	50.00	41 – 47
17		DRI De-Dusting 11&12	50.00	39 – 48
18	CPP	CPP 3X130 MW Unit 1	50.00	21 – 46
19		CPP 3X130 MW Unit 2	50.00	38 - 46
20		CPP 3X130 MWUnit-3 CFBC 5	50.00	33 – 41
21		CPP3X130 MW Unit-4 CFBC 6	50.00	33 – 44
22		CPP 60 MW	50.00	33 – 48
23		CPP40 MW	30.00	18.9 – 26
24		250TPH Boiler	30.00	24 – 28
25	SMS-1	FTP-1	50.00	18.6 – 28
26		FTP-2	50.00	21.8 – 32
27		FTP-3	50.00	21 – 42
28		FTP-4	50.00	21 – 38
29	SMS-2	FTP	50.00	22 – 36
30		ZPF	30.00	19 – 29
31	Pellet plant	Pellet plant process stack	50.00	17 – 48
32		Pellet plant dedusting stack	50.00	31 – 42
33	Coke Oven-1	Coke_Oven 1_WHRB_1_and_2	50.00	39 – 48
34		Coke_Oven 1_WHRB_3_and_4	50.00	36 – 45
35	Coke Oven-2	Coke_Oven_2_Process_Stack	50.00	15 – 41
36		Coke_Oven_2_Dedusting	50.00	16 – 48
37	Blast Furnace-2	BF_2_Cast_House	50.00	32 – 46
38	Blast Furnace-1	BF_1_Cast_House	50.00	31 – 48
39	Sinter Plant-1	Charging stack	50.00	40 – 40
40		Discharging	50.00	45 – 45
41	Sinter Plant-2	Process stack	50.00	38 – 42
42		De dusting	50.00	32 – 47
43	LCP	LCP-1	50.00	21.6 – 44
44		LCP-2	50.00	36 – 49
45		LCP-3	50.00	27 – 46
46		LCP-4	50.00	17 – 43
47		LCP-5	30.00	18 – 28
48		LCP-6	30.00	16 – 29
49	CSP	CSP, Tunnel Furnace (Line A Process Stack-I)	50.00	14 – 25
50		CSP, Tunnel Furnace (Line A Process Stack-II)	50.00	11 – 21
51		CSP, Tunnel Furnace (Line A Process Stack-III)	50.00	13 – 23
52		CSP, Tunnel Furnace (Line B Process Stack-I)	50.00	11 – 18
53		CSP, Tunnel Furnace (Line B Process Stack-II)	50.00	13 – 18

54		CSP, Tunnel Furnace (Line B Process Stack-III)	50.00	14 – 24
55	CRM	CRM Pickling #1	50.00	14 – 18
56		CRM Pickling #2	50.00	16 – 21
57		CRM Narro pickling Stack	50.00	10 – 13
58	WRM	WRM-1 Reheating Furnace Stack	50.00	19 – 32
59		WRM-2 Reheating Furnace Stack	50.00	18 – 28

Annexure-XIV

Health Surveillance over last three years (FY'23 to FY'25)

Description	2023			2024			2025			Till 30th June 2026		
	On roll	Associate	Contractor	On roll	Associate	Contractor	On roll	Associate	Contractor	On roll	Associate	Contractor
Pre-Employment Medical Examination	796	256	33629	632	296	24579	469	109	17640	356	82	7458
Periodic/Post-Employment Medical Examination	6199	8057	7428	6039	7692	12724	6296	8093	10509	2761	3360	5056

N.B:

I. ***Pre employment health checkup parameters*** *like Physical and Clinical Test including Hight, Weigt, Vision Test (DV, NV and CV), BP, Pulse, Temp and Respiration Rate, PFT if necessary. Blood Test:- CBC Blood Group ,FBS/RBS, ECG, ENT, Urine, Form No-31-A Prescribed Factory Rule62J*

II. **Periodic Post-Employment Medical:** Clinical Medical Examination *Physical and Clinical Test including Hight, Weigt, Vision Test (DV, NV and CV), BP, Pulse, Temp and Respiration Rate, PFT . Blood Test:- CBC ,FBS/RBS,HbA1c,Lipid Profile, LFT ,Electrolyte Profile, KFT, ECG, ENT, Urine(RE & ME)Chest X-Ray Every 3 year interval, Trade Mill Test if abnormal ECG Found. Audiometry Test.*

Annexure-XV

Test Report

TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No	:	KE24-000357.009	**Issue Date**	:	29/02/2024
ULR No	:	TC704724100000596F	**JOE No**	:	KE24-000357
Report Control No	:	KER0000216963			

Customer Provided Information

Sample Described by Customer as : SOLID WASTE

Customer Name : BHUSHAN POWER AND STEEL LIMITED
Customer Address : Vill- Thelkoloi
: Post- Lapanga
City : Tehshil-Rengali
Postal Code : 768232
Country : INDIA
Sample Qty. Recd. : 1KG APPROX.
Sampling Date : 19/02/2024
Sampling Location : SMS EAF SLAG

Lab Provided Information

Sample Type : SOLID_WASTE
Received : 22/02/2024
Test Start/End Date : 22/02/2024 - 28/02/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit SCHEDULE II Min	Max
NABL Group : Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)				
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50
DISCIPLINE: CHEMICAL					
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A2-Barium	USEPA 1311 & 200.7	1.62	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.18	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20

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SGS

Test Report

TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No	:	KE24-000357.009	**Issue Date**	:	29/02/2024
ULR No	:	TC704724100000596F	**JOE No**	:	KE24-000357
Report Control No	:	KER0000216963			

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit SCHEDULE II	
				Min	Max
NABL Group : Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)				
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A24-Carbontetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A26-Chloroform	USEPA 1311+5030C & 8260B	0.11	mg/L	-	6.0
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	.13
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	10.0
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100

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Test Report

TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No	: KE24-000357.009	**Issue Date**	: 29/02/2024
ULR No	: TC704724100000596F	**JOE No**	: KE24-000357
Report Control No	: KER0000216963		

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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SGS India Pvt. Ltd. SGS India Pvt Ltd.,CS Plot -512(p) ,Mouza, Hanspukuria,Diamond Harbour Rd.PO-Joka, South 24 Parganas.Kolkata - 700104.Phone:+916292153834
Regd & Corp. Off : SGS House, 48, A.S. Marg, Vikhroli (West), Mumbai-400083. Tel : (0221 25798421 to 28 www.sgs.com

Test Report

TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

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ULR No	:	TC704724100000597F	**JOE No**	:	KE24-000357
Report Control No	:	KER0000216963			

Customer Provided Information

Sample Described by Customer as	:	SOLID WASTE
Customer Name	:	BHUSHAN POWER AND STEEL LIMITED
Customer Address	:	Vill- Thelkoloi
	:	Post- Lapanga
City	:	Tehshil-Rengali
Postal Code	:	768232
Country	:	INDIA
Sample Qty. Recd.	:	1KG APPROX.
Sampling Date	:	19/02/2024
Sampling Location	:	SMS-LRF SLAG

Lab Provided Information

Sample Type	:	SOLID_WASTE
Received	:	22/02/2024
Test Start/End Date	:	22/02/2024 - 28/02/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit SCHEDULE II Min	Max
NABL Group : Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)				
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50
DISCIPLINE: CHEMICAL					
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A2-Barium	USEPA 1311 & 200.7	0.18	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.10	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20

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NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit SCHEDULE II Min	Max
NABL Group : Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)				
A8-Selenium	USEPA 1311 & 200.7	0.16	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A24-Carbontetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A26-Chloroform	USEPA 1311+5030C & 8260B	0.09	mg/L	-	6.0
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	.13
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	10.0
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100

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Test Report

TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No	: KE24-000357.010	**Issue Date**	: 29/02/2024
ULR No	: TC704724100000597F	**JOE No**	: KE24-000357
Report Control No	: KER0000216963		

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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Read & Corp. Off : SGS House, 4B, A.S. Marg, Vikhroli (West), Mumbai-400083, Tel : (022) 25796421 to 28 www.sgs.com

Member of the SGS Group (SGS SA)

Annexure-XVI

(A JSW Group Company)
Village : Thelkoloi, Post : Lapanga, Teh. : Rengali
Dist. : Sambalpur - 768 212, Odisha, INDIA
T +91(0)663 8636000
Website : www.jsw.in, CIN : U27109OR2006PLC008530

Ref: JSWBPSL/ENV/25-26/058 **Date:22.09.2025**

To
The Member Secretary
Odisha State Pollution Control Board
A/118, Nilakantha Nagar, Unit –VIII
Bhubaneswar – 751012
Odisha

Subject-Submission of Annual Environmental Statement for the financial year ending
31st March2025 for M/s Bhushan Power & Steel Limited ,vill-Thelkoloi, Po-Lapanga,Tehsil-Rengali,District-Sambalpur,Pin-768212

Reference-Rule -14 of Environment (Protection) Rule 1986.

Respected Madam,

Inviting your kind reference on the on the above mentioned subject please find enclosed herewith Environmental Statement in Form-V dully filled under Rule -14 of the Environment (Protection)Rule 1986 for M/s Bhushan Power & Steel limited for the year 2024-25

If you require any further information /clarification we shall oblige to submit the same.

Thanking You,

Yours Sincerely,

For Bhushan Power & Steel Limited

Saurabh Singh
HOD–Environment

Encl-As stated above

Cc to-

1.The Additional Director General of Forest(C) Ministry of Environment, Forest &
Climate change Estern Regional office(EZ) A/3,Chandrasekharpur& Climate Change, Eastern Regional Office ,(EZ) A/3 Bhubaneswar Pin-751023

2.Regional Officer, Odisha State Pollution Control Board, Sambalpur.

GOVT. OF INDIA ... Integrated R.O. ... 751003
25.09.2025 Member
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No. Dt.
RECEIVED
25 SEP 2025
S.P.C. BOARD

O/C

Bhushan POWER & STEEL

Bhushan Power & Steel Limited
(A JSW Group Company)
Village : Thelkoloi, Post : Lapanga, Teh. : Rengali
Dist. : Sambalpur - 768 212, Odisha, INDIA
T +91(0)663 6636000
Website : www.jsw.in, CIN : U27100DL1999PLC108350

Ref: JSWBPSL/ENV/25-26/058 **Date:22.09.2025.**

To
The Member Secretary
Odisha State Pollution Control Board
A/118, Nilakantha Nagar, Unit –VIII
Bhubaneswar – 751012
Odisha

Subject-Submission of Annual Environmental Statement for the financial year ending
31st March2025 for M/s Bhushan Power & Steel Limited ,vill-Thelkoloi, Po-Lapanga,Tehsil-Rengali,District-Sambalpur.Pin-768212

Reference-Rule -14 of Environment (Protection) Rule 1986,

Respected Madam,

Inviting your kind reference on the on the above mentioned subject please find enclosed herewith Environmental Statement in Form-V dully filled under Rule -14 of the Environment (Protection)Rule 1986 for M/s Bhushan Power & Steel limited for the year 2024-25.

If you require any further information /clarification we shall oblige to submit the same.

Thanking You,

Yours Sincerely,

For **Bhushan Power & Steel Limited**

Saurabh Singh
HOD–Environment

Encl-As stated above

Cc to-
1.The Additional Director General of Forest(C) Ministry of Environment, Forest &
Climate change,Estern Regional office(EZ) A/3,Chandrasekharpur& Climate Change, Eastern Regional Office, (EZ) A/3,Bhubaneswar,Pin-751023

2.Regional Officer, Odisha State Pollution Control Board, Sambalpur

SPC BOARD
No.. Saurabh Singh
Date.22/9/25
SAMBALPUR

[FORM-V]
(See rule 14 of The Environment Protection Act,1986)
Environment Statement for the financial year ending 31st March2025.

PART-A

GENERAL INFORMATION

	Name of the Company	**M/s Bhushan Power & Steel Limited**
I	Name and address of the owner/occupier of the industry operation or process.	**Shri Anil Kumar Singh** President & WTD cum Occupier M/s. Bhushan Power & Steel Limited Village-Thelkoloi, Po-Lapanga, Tehsil-Rengali District- Sambalpur, Odisha, Pin-768212
I.a	Authorized person for the occupier	**Shri Saurabh Singh** GM-Environment M/s. Bhushan Power & Steel Limited Village-Thelkoloi, Po-Lapanga, Tehsil-Rengali District- Sambalpur, Odisha, Pin-768212
2	Industry category	Red Category
3.a	Production capacity	4.5 MTPA
3.b	Units	

S.N	Plant Units	Installed Capacity
01	Sponge Iron (DRI Kiln)	2MTPA
02	Coal Washery (2 nos.)	4.5MTPA
03	Steel Melting Shop-I	
	Electric Arc Furnace (EAF)	4 x 105
	Ladle Furnace	4 x 105
	Billet Caster	1×4 Strand
	Single continuous thin slab caster	(2×1) Strand
	VD/AOD	2x 100 T
04	Steel Melting Shop-II	
	Electric Arc Furnace (EAF)	(1×75T)
	Ladle Furnace	(1×75 T)
	Billet Caster	1×3 Strand+1x4 Strand
	VD/AOD	2x75 T
05	Captive Power Plants (CPP) (a)3x130MW (4x210TPH Boiler +1x390TPH boiler+1x340TPH boiler) (b)2x8MW WHRB of Coke Oven1x75AFBC boiler +150TPH AFBC Boiler	506 MW

			(c)250TPH CFBC Boiler (Using coal & MBF Gas)	
		06	Blast Furnace-I	0.80MTPA
		07	Blast Furnace-II	1.55MTPA
		08	Sinter Plant - 1	1×105 m^2
		09	Sinter Plant-2	1×450 m^2
		10	Coke Oven – I (Non recovery Type)	0.45 MTPA
		11	Coke Oven –2 (Recovery Type)	1.2 MTPA
		12	Oxygen Plant	(1×400TPD) +1x660 TPD+3x200 TPD (VPSA)+1000TPD
		13	CSP (Hot Rolling Mill)	4 MTPA
		14	Lime and Dolo Plant	3×300 TPD+3x600 TPD
		15	Wire & Rod Mill Complex (WRM)	2x0.6 MTPA
		16	Pipe & Tube Mill	0.80 MTPA
		17	Iron Ore Beneficiation Plant	1200 TPH
		18	Deep Bed Pest Thickener	200 TPH
		19	Pellet Plant	4 MTPA
		20	Cold Rolling Mill	2.5 MTPA
			Galvanizing /	0.70 MTPA
			Galvalume Unit	0.60 MTPA
			Color Coating Unit	0.70 MTPA
4	Year of Establishment (Commercial Production Declared)	March-2005		
5	Date of the Last Environmental Statement Submitted	19th September 2023.		

PART-B
WATER AND RAWMATERIAL CONSUMPTION

I-Water consumption M3/Year:

Type of water	Water Consumption in m3	
	During the previous financial year (23-24)	During the current financial year (24-25)
Industrial	22077526	25928707
Domestic	1466287	1284505

II. Process water consumption per unit of product

Name of Product	Process Water Consumption per unit of product out put	Process Water Consumption per unit of product out put

	During the current Financial Year 23-24	During the current Financial Year 24-25
Crude Steel	2.75 m3/TCS	2.56 m3/TCS

ii) Raw Material Consumption -2024-25

Sl. No	Raw Material	Quantity FY-24-25 (MT)	Consumption of raw material per unit of product (MT/TCS)
1	PCI Coal	5,99,168	0.17
2	Thermal Coal	21,47,125	0.61
3	DRI Coal	14,29,999	0.40
4	Anthracite Coal	1,57,093	0.04
5	Coking Coal	14,98,007	0.42
6	Iron ore fines	61,56,771	1.74
7	Pellet	38,40,280	1.09
8	Limestone	10,54,526	0.30
9	Dolomite	6,28,144	0.18

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OFOUTPUT

Water-

The characteristics of water quality parameters are monitored at the individual out let of treatment plant is given below

A. Out-let water quality from Wastewater Treatment Plants

Location	pH	TSS mg/l	TDS mg/l	COD mg/l	O& G mg/l
WWTP-1	7.02	11.2	1523.0	28.1	<5.0
WWTP-2	7.01	8.3	1204.0	24.4	<5.0
WWTP-3	7.06	9.3	1084.0	29.3	<5.0

B. Out-let water quality from Effluent Treatment Plants

Location	pH	TSS mg/l	Phenol mg/l	Cyanide mg/l	BOD mg/l	COD mg/l	Total Ammoniacal Nitrogen mg/l	O&G mg/l	TDS mg/l	Fe mg/l	Total Chromium mg/l
BETP	7.04	22.2	<0.1	<0.01	19.9	91.5	9.1	4.35	1448	1.78	<0.1
ETP	7.16	9.9	<0.1	<0.01	6.5	22.5	2.6	<5.0	1736	0.36	0.35

C. Out-let water quality from Sewage Treatment Plants

Location	pH	TSS mg/l	BOD mg/l	Fecal Coliform MPN/100 ml

STP-1	6.98	8.2	5.5	161
STP-2	7.04	9.4	6.6	133
STP-3	7.07	9.5	3.9	141

Air:

Quantity of pollutants measured around the plant is given below

Ambient Air Quality Monitoring: National Ambient Air Quality Monitoring Program (NAAQM)Guidelines for sampling and Measurement of notified Ambient Air Quality Parameters (NAAQMS2009) Under the provisions of the Air (Prevention & Control of Pollution) Act 1981, the CPCB has notified fourth version of national Ambient Air quality Standards (NAAQMS)2009.Ambient Air is being monitored at 4 stations- FY 2024-25

Ambient Air Result-Near Town Ship

Month	Pollutant	PM_{10}	$PM_{2.5}$	SO_2	NO_X	O_3	CO
	Standard	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)	100(µg/m³)	2000 (µg/m³)
Apr-24		94.3	46.4	32.6	48.4	7.2	0.58
May-24		96	49.3	29.4	45.4	6.7	0.55
Jun-24		95.2	44.5	30.4	45.7	6.9	0.51
Jul-24		91.8	42.2	29.4	43.1	6.3	0.58
Aug-24		61	45	5	22	4.5	0.85
Sep-24		88	44	12.4	21.6	21.1	0.43
Oct-24		84	43.6	17.5	26.9	14.8	0.42
Nov-24		88.4	38.7	21.4	32.6	21.4	0.43
Dec-24		86.6	39.2	22.5	34.2	22.5	0.46
Jan-25		89.4	40.2	24.3	34.1	22.7	0.49
Feb-25		81.8	38.9	22.3	35.4	23.1	0.44
Mar-25		78.6	38.6	33.2	38.6	5	0.85

Ambient Air Result-Near Railway Gate

Month	Pollutant	PM_{10}	$PM_{2.5}$	SO_2	NO_X	O_3	CO
	Standard	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)	100 (µg/m³)	2000 (µg/m³)
Apr-24		86.99	42.6	28.4	31.4	6.2	0.45
May-24		88.5	47.1	27.6	33.4	7.1	0.53
Jun-24		88.6	40.5	27.6	29.4	6.5	0.48
Jul-24		82.7	38.2	22.4	25.8	5.1	0.42
Aug-24		86	43	5	31.1	6.9	0.67
Sep-24		91	41	9.9	24.3	17.7	0.38
Oct-24		63	40.6	18.7	21.4	12.4	0.32

Nov-24	89.9	43	25.6	36.8	28.9	0.39
Dec-24	91	27.8	26.5	35.4	27.8	0.63
Jan-25	92.2	45.7	28.7	37.4	27.2	0.72
Feb-25	88.6	41.5	29.7	38.7	28.6	0.74
Mar-25	89.4	42.6	28.6	43.4	5	0.71

Ambient Air Quality Result-Behind CRM

Month	Pollutant / Standard	PM_{10} 100 (µg/m³)	$PM_{2.5}$ 60 (µg/m³)	SO_2 80 (µg/m³)	NO_x 80 (µg/m³)	O_3 100 (µg/m³)	CO 2000 (µg/m³)
Apr-24		90.8	47.1	32.5	37.4	7.4	0.62
May-24		93.9	48.4	31.2	39.4	7.8	0.59
Jun-24		94.8	49.2	31.8	39.4	7.8	0.71
Jul-24		91.6	44.8	28.5	37.4	7.2	0.59
Aug-24		59	37	5	6.9	8.9	0.72
Sep-24		82	37	13.8	18.7	19.8	0.42
Oct-24		88	44.2	21.8	26.7	20.9	0.41
Nov-24		91.1	46.4	27.7	34.9	23.4	0.56
Dec-24		94.8	47.6	31.5	36.7	24.8	0.63
Jan-25		89.8	36.7	31.8	39.4	5	0.77
Feb-25		84.3	37.4	32.3	37.6	5	0.78
Mar-25		83.6	38.9	34.6	39.4	5	0.87

Ambient Air Quality Result-Near ETP

Month	Pollutant / Standard	PM_{10} 100 (µg/m³)	$PM_{2.5}$ 60 (µg/m³)	SO_2 80 (µg/m³)	NO_x 80 (µg/m³)	O_3 100 (µg/m³)	CO 2000 (µg/m³)
Apr-24		94.71	41.9	25.4	32.4	7.8	0.42
May-24		95.3	43.4	26.8	34.5	6.7	0.57
Jun-24		96.5	43.7	26.5	34.8	7.2	0.49
Jul-24		92.8	40.6	23.8	31.8	6.4	0.45
Aug-24		62	42	5	31	4.6	0.96
Sep-24		92	42	16.8	26.9	17.7	0.33
Oct-24		81.8	43.8	26.4	28.9	21.1	0.38
Nov-24		91.1	37.8	19.9	31.6	21.4	0.43
Dec-24		86.2	42.9	19.6	32.4	24.7	0.47
Jan-25		92.1	36.4	21.6	34.8	5	0.62
Feb-25		88.4	35.8	20.8	33.2	5	0.58
Mar-25		86.8	37.6	21.2	35.8	5	0.58

Stack Emission

Sl.No	Unit	Stack Name	Average in mg/Nm3	% of Variation from Prescribed Standard
1	DRI	DRI/WHRB-1	25.5	-48.9
2		DRI/WHRB-2	20.7	-58.5
3		DRI/WHRB-3	15.8	-68.3
4		DRI/WHRB-4	17.6	-64.6
5		DRI/WHRB-5	20.8	-58.3
6		DRI/WHRB-6	18.2	-63.6
7		DRI/WHRB-7	18.4	-63.1
8		DRI/WHRB-8	22.4	-55.2
9		DRI/WHRB-9	20.0	-60.0
10		DRI/WHRB-10	20.5	-59.1
11		DRI/WHRB-11&12	28.3	-43.4
12		DRI De-dusting 1&2	36.8	-26.4
13		DRI De-dusting 3&4	32.6	-34.9
14		DRI De-dusting 5& 6	33.1	-33.7
15		DRI De-dusting 7&8	25.5	-49.0
16		DRI De-dusting 9&10	35.3	-29.4
17		DRI De-Dusting 11&12	29.5	-41.0
18	CPP	CPP 3X130 MW Unit 1	29.0	-42.0
19		CPP 3X130 MW Unit 2	31.9	-36.1
20		CPP 3X130 MWUnit-3 CFBC 5	35.4	-29.2
21		CPP3X130 MW Unit-3 CFBC 6	32.7	-34.5
22		CPP 60 MW	26.0	-48.0
23		CPP40 MW	27.0	-10.2
24	SMS-1	Fumes Treatment Plant-1 Stack	23.5	-52.9
25		Fumes Treatment Plant-2 Stack	15.6	-68.9
26		Fumes Treatment Plant-3 Stack	17.0	-66.0
27		Fumes Treatment Plant-4 Stack	16.9	-66.2
28	SMS-2	Fumes Treatment Plant Stack	21.6	-56.7
29		SMS#2 (ZPF-FTP stack)	20.7	-31.0
30	Pellet Plant	Pellet Plant Process Stack	38.9	-22.3
31		Pellet plant dedusting stack	37.4	-25.3
32	Coke Oven-1	Coke Oven-1-WHRB-1&2	30.8	-38.3
33		Coke Oven-1 WHRB-3&4	31.7	-36.6
34	Coke Oven-2	Coke Oven-2 Process Stack	21.6	-56.7
35		Coke_Oven_2_Dedusting	22.1	-55.8
36	Blast Furnace -2	BF-2 Cast House	20.6	-58.9
37	Blast Furnace-1	BF-1-Cast_House	25.3	-49.3
38	Sinter Plant-1	Charging Stack	29.4	-41.1
39		Discharging Stack	29.0	-41.9
40	Sinter Plant-2	Charging stack	23.9	-52.1
41		Discharging Stack	21.2	-57.6
42	LCP	Lime Calcination Plant-1	39.9	-20.1

43		Lime Calcination Plant-2	41.2	-17.7
44		Lime Calcination Plant-3	35.8	-28.4
45		Lime Calcination Plant-4	32.9	-34.2

PART-D
HAZARDOUS WASTE

Hazardous Waste Generation

		During the Financial Year 2024-25
a) From Process	Used Oil	149 MT
	Waste /residue containing Oil	82 MT
	Oil & Grease Skimming Residue	163 MT
	Zinc Dross/Flux/Ash/Skimming	660 MT
	Discarded Containers/Barrels	3.4 MT
	Spent ion exchange resin	0 MT
	Tar Storage Tank Residue *	0 MT
	Waste Pickled liquor	39065 MT
(b) Pollution Control facilities	ETP Sludge	143 MT

B. Method of Disposal of Hazardous Wastes:

Hazardous waste			Method of handling
From Process	**Waste category**	**Disposed Quantity**	
Used oil/ Spent Oil	5.1	152.56 MT	Stored in MS drum over concrete floor under shed and sale to authorized recycler /reprocesser having valid authorization from SPCB, Odisha.
Wastes/Residues Containing Oil	5.2	80.52 MT	Stored in the Hazardous waste container under shed and sale to authorized recycler, preprocessor or disposed through authorized Hazardous waste incinerator /CHWTSDF authorized by SPCB, Odisha.
Oil and Grease Skimming Residue from ETP	5.1	172.81 MT	Disposed through Authorized Hazardous waste incinerator/Common Hazardous Waste Treatment Storage Disposal facility (CHWTSDF) authorized by SPCB,Odisha.
Zinc Dross/Flux/Ash/Skimming	6.2	713.86 MT	Storage in impervious pit/containers under covered shed and sale to authorized recycler/reprocessor.

Empty barrel/Containers/Liners contaminated with hazardous chemicals/wastes	33.1	2.93 MT	Bye back through Supplier/Actual user or disposed through authorized recycler.
Spent Ion exchange resin	35.2	0 MT	Disposed through Authorized Hazardous waste incinerator/Common Hazardous Waste Treatment Storage Disposal facility (CHWTSDF) authorized by SPCB,Odisha.
Tar Storage Tank Residue	13.5	0 MT	In house recycling within plant
Waste Pickled liquor	13.1	39065	Inhouse recycling through ARP
Chemical Sludge from wastewater treatment plant-	35.3	170.92 MT	Disposed through Authorized Hazardous waste incinerator/Common Hazardous Waste Treatment Storage Disposal facility (CHWTSDF) authorized by SPCB,Odisha.

PART-E

Solid Waste

Generation and Utilization of Solid Waste

		During the Year 2023-24	During the Year 2024-25	Mode of Utilization
(a) From Process	Coal fines from crushing and screening plant area	1,894	2,107	Reused within plant
	Process dust from Dedusting ESP	1,47,335	1,38,319	Reused in CPP
	Kiln Accretion	17,785	7,029	Land filling
	Char	3,06,915	2,46,828	Used in CPP
	Dust from ESP hopper of WHRB	2,22,461	2,28,424	
	Fly Ash from CPP	10,12,693	10,66,794	Utilized in Bricks plant, Land filling and road making
	Bottom Ash from CPP	253173	2,66,699	
	SMS Slag	9,04,049	9,08,333	SMS slag metallic part reuse in sinter plant and SMS and residue used in land filling
	Sinter plant ESP dust	11456	4949	Recycled in Sinter / Pellet plant
	Granulated Slag BF	10,13,721	11,18,159	Sold to cement Plant
	Dust from GCP of Blast furnace	18426	18915	Reused
	Mill scale from CSP	28,435	28,246	Used in Sinter plant
(b)From Pollution Control Facilities	Sludge From STP	80	102	Mixed with soil & used as manure in Horticulture application inside plant premises.
	FES Dust from EAF/LF	39,609	35,412	Recycle through pellet/sinter plant
	Char	3,06,915	2,46,828	Used in CPP

(c) Quantity recycled or reutilized within the Unit	Bottom Ash	2,53,173	2,66,699	Utilized in Bricks plant, Quarry filling, Embankment raising, Land filling and road making
	Fly Ash	10,12,693	10,66,794	
	Sludge from STP	80	102	Mixed with soil & used as manure in Horticulture application inside plant premises.
	FES Dust from EAF/LRF	39,609	35,412	Recycled in Sinter / Pellet plant
	Sinter plant ESP Dust	11,456	4949	Recycled in Sinter / Pellet Plant
	Granulated Slag from Blast furnace	10,13,721	11,18,159	Sold to cement plant

PART-F

Characteristic of Solid waste

Type of waste	Char	Accretion	Wet scrapper	Dedusting dust	Slag		Mill scale		
Source	DRI	DRI	DRI	DRI	BF Granulated slag	SMS	CSP	WRM	Pipe & Tube Mill
Fe(T)							73.94	72.03	
SiO2	47.21	49.96	40.15	37.35	35.18	14.10	2.68	1.36	2.06
Al2O3	27.58	22.13	21.75	20.54	20.02	9.22	0.611	0.75	1.53
CaO	7.01	1.21	4.56	1.80	34.10	34.19	4.96	0.92	1.41
MgO	4.51	0.86	1.1	1.01	7.44	9.87		0.25	0.67
MnO	-	-	-	-	0.8	-	0.191	0.637	0.164
TiO2	1.25	-	-	1.47	0.51	0.87		-	-
S	-	-	0.5	-	-	-	-	-	-
P									
C			22.71						

Type of waste	Fly Ash	Bottom Ash	WHRB Ash	Lime dust	Sludge			Flue dust	
Source	CPP	CPP	DRI		ETP	BF	WRM	BF	Sinter plant
Fe(T)					43.64	39.12	63.35		
SiO2	55.30	49.67		4.72	5.01	6.09	3.44	11.3	6.33
Al2O3	32.10	24.83		0.86	1.04	3.93	1.28	7.22	4.85
CaO	2.14	1.76		62.45	13.83	3.35	2.10	6.68	9.99
MgO	1.21			1.92	1.25	0.58	0.39	2.23	2.10
MnO	0.052				0.054	0.48			0.264
TiO2	1.162	0.958		0.12		0.069			0.048
S			0.51				0.135	0.14	
P									
C			14.49				8.39		

PART– G
IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES

All the units are equipped with adequate pollution measure. Smooth operation of Pollution abatement measures has resulted in following impact in conservation of natural resources and the cost of production.

Water Environment:

- BPSL receives water from Back water of Hirakud reservoir and stored in two numbers of reservoir inside the plant.
- BPSL has installed 03 numbers of Wastewater treatment plant for complete recycling of entire wastewater generated from surface runoff and storm water, cooling tower blowdown water. After treatment in the wastewater treatment plants, the water is used for makeup water for DRI, Pellet plant, Captive power plant ash quenching, SMS slag quenching, firefighting, sprinkling on haul roads to control fugitive emissions and for horticulture application.
- BPSL has installed one ETP for CRM effluent ,BETP for Coke Oven -2 and 03nos. of STP for Sewage of township.
- Installation of RO system of Capacity 510 m3/hr. The permeate water generated of 350m3/hr is being utilized as DM water plant feed and cooling tower make up water.
- Following action taken for reduction in Raw water consumption and achieve zero liquid discharge
  a) Production of RO water as per design of the plant.
  b) Running of Cooling towers on High cycle of concentration (COC 5.0 to 6.0) and Reducing water losses through blow down.
  c) Acidic/Alkaline wastewater generated from DM plant is neutralized in neutralization pit and reused for ash conditioning.
  d) Cooling towers blow down water of CPP 3x 130 MW is completely reused for ash quenching in silos.
  e) Using treated effluent of ETP for dust suppression inside plant premises.
  f) Recycling backwash water from Sand filters to Wastewater Treatment plant.
  g) Increase OBR of Ion-exchangers beds in DM plant to reduce effluent generation by modifying flow-measuring instruments and RO water feed.
  h) Reduction of water loss due to leakages.
  i) Installation of best available technology
  j) Reduce the blowdown of cooling tower to reduce the consumption of water.

Air Environment:

- Reduction of greenhouse gases by use of by product gases for power generation.
  a) The hot gas generated from coke oven is being utilized in the power generation passing through waste heat recovery boilers (WHRB) feeding to two numbers of turbo generators which generate 16 MW power.
  b) The hot gas generated from all DRI kilns is used for power generation through waste heat recovery boilers (WHRB).
  c) Installation of PCI in BF -2 to reduce carbon footprint.
  d) Reduce CO2 emission pneumatic air leakage prevented, and 4 numbers of running compressor stopped.
- Blast furnace gas after treatment in Gas Cleaning Plant utilized in tunnel furnace of CSP, Sinter Plant, Lime Plant, Electric Arc furnace, Cold Rolling Mill, Wire Rod Mill and Pellet plant.
- Concrete all internal roads work under progress to reduce the fugitive dust emissions inside plant premises.
- Mobile water sprinkling tankers are being engaged for regular water sprinkling on haul roads and in construction areas for control of fugitive dust emissions.
- Eight numbers of truck mounted vacuum road sweepers are being engaged for continuous cleaning of concrete roads inside the plant premises to control fugitive dust.

- Fixed water sprinklers have been installed in the potential areas of DRI units, Raw material handling and stacking areas for suppression of fugitive dust emissions.
- Installation of Six numbers of wheel washing system to clean the wheel of heavy vehicle and control fugitive dust carrying outside.
- For compliance and effective monitoring by installation of CEMS, CAAQMS and CEEQMS and HDIP Camera.
- For proper maintenance of all the online monitoring system a dedicated AMC team engaged and for transmission of data to OSPCB /CPCB server a dedicated AMC team has been engage

PART – H

ADDITIONAL MEASURES/INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION

Efficient measures for abatement of pollution were implemented under the project these are working satisfactorily. However, following additional measures have been taken for overall environmental improvement.

Water Pollution:

- Installation of ZLD/RO plant of capacity 510 m3/hr.
- Upgradation of CRM Effluent Treatment plant work has completed and Under operation
- Coke oven ZLD proposal order has given to the vendor, and it will completed by 31st March2025
- WWTP-3 water feeding into the RO plant ensure100% productivity of the RO plant.

Air Pollution:

- Individual Fume treatment Plant (FTP) attached to EAF-1, EAF-2, EAF-3 and EAF-4 has been provided for control of Primary as well as secondary emission from SMS-1.
- High-pressure mist beam sprinkler has been installed at raw material stacking yard for control of fugitive dust.
- Revamping of ESP of Captive Power plant.
- Conveyor junction house inspection and modification to reduce the fugitive dust
- Charging emissions is also reduced by strengthening the operation performance of SUPERCO in Coke Oven-2
- Regularly Bags are replaced in baghouse of BF-1&2 Cast house . LCP and DRI dedusting and bag filter installed in other areas.
- Installation of CEMS in Lime plant,,SMS-2 ZPF and 250 TPH CFBC boiler Stack .
- Installation of 176 nos. of rubbish chute in junction houses to reduce fugitive dust generation at sources.
- 4 nos. of dry fog system installed and effectevily in operation at wagon tippler area to control fugitive dust.
- 7 nos. of dedusting bag filter has been installation at coke oven-2 Coal Circuit.

Waste Disposal:

- Disposal of E-waste as per the rule to the authorized E-waste dismantler and recycler.
- Bio medical waste has been disposed of through Medi aid marketing services at common facility of Medi aid Marketing services at Sundargarh.
- Plastic barrel disposed through authorized vendor by OSPCB
- Used oil sold to authorized recyclers.
- Waste residue containing oil, Oil skimming residue & ETP sludge disposed through authorized vendor M/S Re sustainability.
- The total quantity of BF granulated slag sold to Cement Manufacture.
- All the hazardous waste stored under Covered Hazardous storage Shed and disposed as per the rules.

Others:

- Continuous development of flora by tree plantation and green belt development. In the year 2024-25, 5821 numbers of saplings were planted within the plant and 1800 sapling distributed in periphery villages.
- Six numbers of IP camera installed and connected to OSPCB server.

- Adequate capacity silencer has been installed in drain and vent lines of turbine of blower house of Blast Furnace to reduce Noise Pollution while rolling of Turbine & stopping of Turbine.
- Biodiversity Study Completed within 10 Km radius of the plant.
- The performance evaluation of the Pollution control and Monitoring devices completed and submitted at the OSPCB.

Investment made in Pollution Control System during the financial year 2024-25.

Sl. No	Description	Expenditure in Crores during 2024-25
1	Water Pollution Control	2
2	Air Pollution Control	248
3	Solid Waste Management	53
3	Hazardous waste management	2.5
4	Biomedical Waste Management	0.10

PART-I
ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

The possible areas of resource conservation and the source of pollutants are identified, assessed and subsequently proper arrangements for their control are incorporated. Some actions taken in direction to improve the quality of Environment at Bhushan Power & Steel Limited are:

A-Key performance Indicators (KPI)

The key environmental performance parameters for Iron & Steel Industry is being measured for benchmarking with best practices in the industry. Though there are no regulatory norms, these parameters provide guide for overall improvements. We are monitoring the below mention parameter on monthly basis.

Sl No	Key performance indicator
01	Sp.CO2 Emission(tCO2/tcs)
02	Sp.Energy Consumption Gcal/tcs
03	Sp. water consumption (M3/tcs)
04	PM Emission(kg/tcs)
05	SO_2 Emission (kg/tcs)
06	NOx Emission(kg/tcs)
07	Sp. Solid waste generation
08	% Solid waste utilization

B-Implementation of ISO System:

Accredited ISO-14001:2015 [Environmental Management System] and ISO 9001:2015 [Quality Management System for operations of Integrated Steel Plant.

Accredited ISO-45001(Occupational Health and Safety Management System) for operation of Integrated Steel Plant.

C-Implementation of 5S System throughout the plant & maintained

D-Implementation of TPM System through out the plant.

E- Word Environment Day 2024 Observed on 5th June 2024 with drive of mass plantation through out the plant.

F-World Ozone Day 2024 also observed on 16th Septemebr2024 in association with OSPCB Regional office team.

G- Regular inspection carried out through out the plant to address the non-compliances.

H-Awareness and training imparted through out the plant on Environment training modules like ,Legal compliance, Air pollution , Water pollution and conservation, Solid waste management, Hazardous waste management.

Annexure-XVII

The Statistical interpretation of fugitive emission monitoring

(Period of Oct'25 to Mar'26)

#	Department	Location	Average (µg/m3)	Max (µg/m3)	Min (µg/m3)	SD (µg/m3)	RSD (%)
1	Coke Oven-1	L-94, 002 Conveyor Belt line	856.7	963	793	67.6	7.90
2	Coke Oven-1	Silo area	984.7	1376	675	292.2	29.68
3	Coke Oven-1	Mixing Building	967.0	1458	480	447.7	46.30
4	Coke Oven-1	Battery Area	664.2	956	428	173.6	26.13
5	Coke Oven-1	Coal Tower area	734.3	977	426	197.8	26.93
6	Coke Oven-1	Coke oven -1 office	85.8	105	76	10.4	12.07
7	Coke Oven-2	Mixing building	642.5	884	345	178.8	27.82
8	Coke Oven-2	BETP area	402.3	521	306	82.8	20.57
9	Coke Oven-2	JT 01 (25BC 01)	606.5	735	447	111.3	18.35
10	Coke Oven-2	JT 01 (25BC 02)	641.3	728	558	62.2	9.70
11	Coke Oven-2	Control room	92.5	122	82	15.2	16.42
12	BF-1	Cast house	1307.0	1846	332	679.0	51.95
13	BF-1	Near pump house	324.8	451	208	85.7	26.39
14	BF-1	PCI area	869.7	1785	287	573.2	65.91
15	BF-1	Control room	85.5	102	78	9.1	10.61
16	BF-2	Cast house	1825.7	1975	1624	129.2	7.08
17	BF-2	PCI area	671.3	932	475	182.3	27.15
18	BF-2	Pump house	428.2	612	305	118.1	27.59
19	BF-2	Control room	90.3	112	78	12.1	13.37
20	SMS-1	Furnace -1	1281.0	1765	792	408.2	31.87
21	SMS-1	Furnace -2	1672.5	1868	1488	145.8	8.72
22	SMS-1	Furnace -3	1739.8	1973	1520	151.3	8.69
23	SMS-1	Furnace -4	1817.7	1953	1695	99.9	5.49
24	SMS-1	Furnace -1&2 slag pit area	839.5	1458	445	358.4	42.69
25	SMS-1	Furnace - 3&4 slag pit area	1142.2	1734	552	601.0	52.62
26	SMS-1	Control room	89.5	112	82	11.4	12.75
27	SMS-2	Furnace -1	1335.3	1975	408	532.8	39.90
28	SMS-2	Furnace -2	1538.5	1889	1088	315.3	20.49
29	SMS-2	Furnace -1 slag pit area	985.7	1460	445	413.6	41.97
30	SMS-2	Furnace -2 slag pit area	1018.3	1625	423	471.2	46.27
31	SMS-2	Control Room	93.2	112	81	12.1	12.94
32	Sinter Plant-1	Primary Screening building	874.0	874	874	356.8	40.82
33	Sinter Plant-1	Secondary Screening building	1325.0	1325	1325	540.9	40.82
34	Sinter Plant-1	secondary mixing Drum	1108.0	1108	1108	452.3	40.82
35	Sinter Plant-1	Control Room	98.0	98	98	40.0	40.82
36	Sinter Plant-2	Primary Screening building	1365.2	1618	902	255.2	18.69
37	Sinter Plant-2	Secondary Screening building	1589.3	1826	1369	197.4	12.42
38	Sinter Plant-2	Primary mixing Building	1316.0	1638	826	348.9	26.51
39	Sinter Plant-2	Control room	87.5	106	78	10.9	12.45
40	Pellet Plant	Indurating Building	1137.0	1642	837	284.9	25.05

#	Department	Location	Average (µg/m3)	Max (µg/m3)	Min (µg/m3)	SD (µg/m3)	RSD (%)
41	Pellet Plant	Dosing & mixing Building (HLO1-GL81-MA01) Head End	1008.5	1536	625	342.4	33.95
42	Pellet Plant	Dosing & mixing Building (HLO1-GL81-MA01) Tail End	1331.5	1785	818	374.6	28.14
43	Pellet Plant	Additive Storage area	1200.2	1381	827	220.2	18.35
44	Pellet Plant	Pump house	343.6	465	240	91.8	26.71
45	Pellet Plant	Pellet plant office	87.0	116	75	15.4	17.66
46	Bonification	Grinding Building	751.3	985	525	187.3	24.93
47	Bonification	JIG Building	827.8	1152	432	241.4	29.16
48	Bonification	Scrubber Building	929.6	1240	754	192.1	20.66
49	Bonification	Fines Building	723.0	1078	547	188.2	26.03
50	Bonification	22 Belt Line	670.3	892	406	182.3	27.20
51	Bonification	Control room	83.5	118	72	17.4	20.82
52	Power plant(3x130) MW	1 no ESP area	1064.5	1562	536	338.7	31.81
53	Power plant(3x130) MW	2 no ESP area	835.8	1146	612	197.6	23.64
54	Power plant(3x130) MW	3 no ESP area	1369.3	1665	904	280.4	20.47
55	Power plant(3x130) MW	4 no ESP area	1176.0	1462	582	583.0	49.58
56	Power plant(3x130) MW	5 no ESP area	1318.6	1685	1156	570.3	43.25
57	Power plant(3x130) MW	6 no ESP area	1319.6	1542	964	575.4	43.60
58	Power plant(3x130) MW	1 no Boiler area	1174.6	1418	822	526.4	44.81
59	Power plant(3x130) MW	2 no Boiler area	1621.8	1765	1271	186.7	11.51
60	Power plant(3x130) MW	3 no Boiler area	1570.0	1874	1033	348.6	22.20
61	Power plant(3x130) MW	4 no Boiler area	1361.0	1533	1098	165.4	12.15
62	Power plant(3x130) MW	5 no Boiler area	1345.5	1678	837	372.0	27.65
63	Power plant(3x130) MW	6 no Boiler area	963.8	1058	810	99.5	10.32
64	Power plant(3x130) MW	Control Room	92.2	102	84	7.3	7.87
65	Power Plant 100MW	AFBC-1 Boiler area	1535.2	1872	1398	176.6	11.51
66	Power Plant 100MW	AFBC-1 ESP area	1385.2	1632	1075	198.1	14.30
67	Power Plant 100MW	AFBC-2 Boiler area	1226.8	1865	502	508.2	41.43
68	Power Plant 100MW	AFBC-2 ESP area	1446.3	1736	925	282.8	19.56
69	Power Plant 100MW	WHRB-1 Boiler area	535.0	711	326	148.2	27.69
70	Power Plant 100MW	WHRB-1 ESP area	517.8	621	305	127.4	24.60
71	Power Plant 100MW	WHRB-2 Boiler area	592.0	719	424	115.0	19.42
72	Power Plant 100MW	WHRB-2 ESP area	544.8	698	398	111.2	20.42

#	Department	Location	Average (µg/m3)	Max (µg/m3)	Min (µg/m3)	SD (µg/m3)	RSD (%)
73	Power Plant 100MW	WHRB-3 Boiler area	643.6	744	521	102.6	15.95
74	Power Plant 100MW	WHRB-3 ESP area	605.6	728	465	102.2	16.88
75	Power Plant 100MW	WHRB-4 Boiler area	618.0	792	410	123.7	20.01
76	Power Plant 100MW	WHRB-4 ESP area	602.5	723	320	160.1	26.58
77	Power Plant 100MW	Control Room	91.3	111	75	13.8	15.09
78	250TPH Boiler	DCF Floor (20mtr)	1728.7	1955	1422	198.1	11.46
79	250TPH Boiler	ESP area	1705.5	1970	1288	244.1	14.31
80	250TPH Boiler	Hopper 20mtr	1576.8	1921	987	429.0	27.21
81	250TPH Boiler	Boiler area	1276.3	1665	823	373.2	29.24
82	250TPH Boiler	Control room	89.2	105	80	9.5	10.70
83	RMHS	Conveyor belt 21C1	998.5	1485	602	321.5	32.20
84	RMHS	Conveyor belt 20C1	925.7	1326	724	223.1	24.10
85	RMHS	Conveyor belt 20C2	1188.8	1592	872	273.4	23.00
86	RMHS	Wagon Tippler # 2	1688.5	1835	1569	96.3	5.70
87	RMHS	Wagon Tippler # 3	1698.2	1842	1492	115.0	6.77
88	RMHS	Railway yard	656.3	852	495	127.5	19.43
89	RMHS	Barel area	697.2	835	485	156.5	22.45
90	RMHS	Limestone screening area	968.2	1424	652	341.8	35.31
91	RMHS	RMPP-2&5 office	89.5	110	78	11.1	12.46
92	RMHS	T2C1 Discharge point	1466.7	1602	1315	101.9	6.95
93	RMHS	T3C1 Receiving Point	1510.7	1627	1408	80.8	5.35
94	RMHS	T3C1 Discharge Point	1450.0	1685	1148	223.0	15.38
95	RMHS	T3AC1 Receiving Point	792.8	1028	665	144.2	18.19
96	RMHS	T3AC1 Discharge Point	1426.3	1532	1218	112.6	7.90
97	CRM	Gate No-12	409.0	512	305	85.8	20.99
98	CRM	Between CTL 3 &CTL 7	366.8	475	284	75.7	20.64
99	CRM	Tube Coil Packing Area	435.7	566	276	121.4	27.88
100	CRM	Narrow Section	389.2	489	311	76.8	19.73
101	CRM	TLL	339.8	421	275	49.6	14.60
102	CRM	CRS	318.8	389	266	47.6	14.93
103	CRM	NSPM	320.3	369	238	53.3	16.63
104	CRM	GP-6 Entry Area	330.3	485	265	79.9	24.18
105	CRM	FG Area	307.8	430	208	79.3	25.75
106	CRM	CCL -2	243.5	347	156	80.9	33.22
107	CRM	CRM canteen	101.7	117	82	13.9	13.71
108	CRM	CCL Exit	196.7	255	162	33.6	17.07
109	CRM	G.P -2 Entry Area	314.0	411	250	54.0	17.20
110	CRM	GP-2 pot area	334.2	401	284	51.0	15.25
111	CRM	Finishing Area	344.8	455	274	66.8	19.36
112	CRM	GP -1 Entry Area	333.8	389	285	41.7	12.48
113	CRM	GP -1 Exit Area	308.5	472	212	96.5	31.28
114	CRM	GP -1 Pot Area	258.2	322	184	60.5	23.44
115	CRM	G.P- 2 Exit Area	282.8	350	178	63.8	22.54
116	CRM	CRM office	87.3	108	78	11.2	12.85
117	WRM	Billet cold charging	622.0	872	406	203.3	32.69

#	Department	Location	Average (µg/m3)	Max (µg/m3)	Min (µg/m3)	SD (µg/m3)	RSD (%)
118	WRM	Furnace exit	392.7	512	285	83.8	21.34
119	WRM	Intermediate Mill	417.3	583	329	120.7	28.92
120	WRM	Cooling bed entry	469.3	535	368	78.3	16.69
121	WRM	Cooling bed exit	444.0	535	316	74.3	16.74
122	WRM	Furnace Area	497.5	682	353	129.5	26.04
123	WRM	Rough Mill	467.5	590	381	85.9	18.38
124	WRM	Pre-Finish Lubrication	490.7	708	405	108.9	22.19
125	WRM	Easy down	445.2	682	312	125.1	28.10
126	WRM	WRM office	88.7	111	76	12.1	13.70
127	Bright Bar	H&T Line	405.3	498	351	54.7	13.50
128	Bright Bar	Bright Bar Office	87.3	112	76	14.5	16.62
129	Bright Bar	Quarantine Area	504.5	652	405	86.2	17.09
130	Bright Bar	Hot Material Area	580.0	744	462	102.6	17.69
131	Bright Bar	Wooden Block	498.0	654	397	93.4	18.75
132	Bright Bar	Furnace Area	602.2	845	502	132.7	22.04
133	Bright Bar	Finishing Area shed-1	1057.3	1484	749	262.8	24.86
134	Bright Bar	Finishing Area shed-2	1123.7	1563	770	327.3	29.13
135	Bright Bar	Finishing Area shed-3	1100.7	1450	718	292.7	26.59
136	Bright Bar	Finishing Area shed-4	1451.0	1762	1025	246.8	17.01
137	CSP	Tunnel Furnace A zone-2	426.2	568	318	94.8	22.23
138	CSP	Tunnel Furnace A zone-8	426.8	492	323	69.8	16.35
139	CSP	CSP mill FM area	394.0	492	248	104.4	26.50
140	CSP	CSP coiler area	385.3	472	282	82.0	21.28
141	CSP	Main Pump house	462.0	632	285	152.2	32.95
142	CSP	Caster Scale pit	415.0	622	308	109.2	26.31
143	CSP	Tunnel Furnace B zone-1	446.0	535	345	75.4	16.90
144	CSP	Roll Shop PCC room	403.8	562	251	121.2	30.00
145	CSP	Control room	86.7	112	75	14.8	17.08
146	Tube Mill	Mill no 7 to 14 dispatch area	605.3	711	435	108.3	17.89
147	Tube Mill	Mill no 1 to 6 dispatch area	553.3	632	424	81.6	14.76
148	Tube Mill	Vehicle parking area	399.5	598	271	132.9	33.27
149	Tube Mill	Mill 7 operation area	551.2	705	326	144.8	26.27
150	Tube Mill	Between mill 15 & 16	489.3	582	331	91.1	18.62
151	Tube Mill	Mass sliding	484.0	638	375	98.9	20.44
152	Tube Mill	Galvanizing area	477.0	570	408	59.2	12.41
153	Tube Mill	Between Mill 7 & 8	463.7	621	327	97.6	21.06
154	Tube Mill	SMS roadside	347.7	405	292	43.0	12.36
155	Tube Mill	Tube mill Office	85.0	98	73	9.6	11.26
156	DRI 1 & 2	Day bin area	871.7	1089	548	196.0	22.48
157	DRI 1	Cooler inlets slip seal	1800.8	1982	1568	148.3	8.23
158	DRI - 2	cooler inlets slip seal	1636.0	1907	1235	250.2	15.29
159	DRI 1 & 2	Control room	92.0	112	81	11.6	12.58
160	DRI - 3	Cooler inlets slip seal	1866.2	1941	1776	55.7	2.98
161	DRI - 4	Cooler inlets slip seal	1641.0	1872	1396	175.5	10.70
162	DRI - 3 & 4	Control room	93.8	108	72	14.2	15.11

#	Department	Location	Average (µg/m3)	Max (µg/m3)	Min (µg/m3)	SD (µg/m3)	RSD (%)
163	DRI -5	cooler outlets slip seal	1658.2	1842	1422	156.4	9.43
164	DRI -6	cooler inlets slip seal	1736.3	1955	1578	135.9	7.82
165	DRI -5 & 6	Control room	92.2	120	72	15.7	17.04
166	DRI -8	Cooler outlets slip seal	1554.3	1785	1321	193.1	12.42
167	DRI -7 & 8	Control Room	97.2	128	85	16.0	16.45
168	DRI -9	Cooler inlets slip seal	1509.7	1834	1028	311.0	20.60
169	DRI -10	Cooler inlets slip seal	1765.3	1962	1622	123.1	6.97
170	DRI -9 &10	Control room	92.8	115	79	12.5	13.44
171	DRI -11 & 12	Control room	94.8	126	83	16.8	17.68
172	Lime Plant	Entrance Road of LCP	864.3	1250	675	220.5	25.51
173	Lime Plant	Service Road Plaza & LCP kiln	791.5	976	541	162.1	20.48
174	Lime Plant	Zero level RBC phase-1	917.5	1252	736	205.7	22.42
175	Lime Plant	Zero level new RBC	1065.2	1363	792	229.5	21.55
176	Lime Plant	Conveyor belt LCPC-BFC1 to 6 tail ends	1584.3	1872	1262	247.6	15.63
177	Lime Plant	Conveyor belt LCPC-BFC1 to 6 head ends	1619.2	1908	1365	193.6	11.96
178	Lime Plant	Mechanical office	97.2	118	88	11.6	11.90

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation

Standard as per GSR 277 (E) 31.03.2012- Integrated Iron & Steel Standard			
Location	**Parameter**	**Existing Units**	**New Units**
Blast Furnace	PM10 (µg/m3)	4000	3000
Steel Making Shop	PM10 (µg/m3)	4000	3000

Standard as per GSR 277 (E) 30.05.2008- Sponge Iron Plant			
Location	**Parameter**	**Existing Units**	**New Units**
DRI	PM10 (µg/m3)	3000	2000

Env. Laboratory in charge

The Statistical interpretation of stack monitoring

(Period of Oct'25 to Mar'26)

#	Units	Stack Name	Standard as per CTO conditions	Max mg/Nm3	Min mg/Nm3	Average mg/Nm3	SD mg/Nm3	RSD (%)
1	DRI	DRI/WHRB-1	50.00	43	24	37.8	7.0	18.4
2		DRI/WHRB-2	50.00	40	25	34.3	5.4	15.8
3		DRI/WHRB-3	50.00	39	23	33.8	6.0	17.7
4		DRI/WHRB-4	50.00	39	21	31.7	6.8	21.5
5		DRI/WHRB-5	50.00	36	22	31.5	5.0	15.8
6		DRI/WHRB-6	50.00	30	19	24.3	3.9	16.2
7		DRI/WHRB-7	50.00	31	26	27.7	1.9	6.7
8		DRI/WHRB-8	50.00	36	28	33.0	3.0	9.0
9		DRI/WHRB-9	50.00	46	34	41.2	4.4	10.7
10		DRI/WHRB-10	50.00	39	28	33.5	4.0	12.1
11		DRI/WHRB-11&12	50.00	39	22	32.0	8.2	25.5
12		DRI De-dusting 1&2	50.00	46	40	43.0	2.2	5.1
13		DRI De-dusting 3&4	50.00	42	33	38.2	3.2	8.4
14		DRI De-dusting 5& 6	50.00	44	36	41.7	3.0	7.2
15		DRI De-dusting 7&8	50.00	45	32	37.3	4.5	12.2
16		DRI De-dusting 9&10	50.00	47	41	44.5	2.5	5.6
17		DRI De-Dusting 11&12	50.00	48	39	44.0	3.3	7.5
18	CPP	CPP 3X130 MW Unit 1	50.00	46	21	39.0	9.2	23.6
19		CPP 3X130 MW Unit 2	50.00	46	38	42.2	2.9	6.8
20		CPP 3X130 MWUnit-3 CFBC 5	50.00	41	33	37.5	3.4	9.2
21		CPP3X130 MW Unit-4 CFBC 6	50.00	44	33	39.7	3.8	9.6
22		CPP 60 MW	50.00	48	33	42.7	5.4	12.7
23		CPP40 MW	30.00	26	18.9	23.0	12.8	55.7
24		250TPH Boiler	30.00	28	24	26.5	1.6	6.2
25	SMS-1	FTP-1	50.00	28	18.6	23.3	3.1	13.2
26		FTP-2	50.00	32	21.8	27.8	4.7	16.8
27		FTP-3	50.00	42	21	28.3	7.3	25.6
28		FTP-4	50.00	38	21	30.7	6.4	20.8
29	SMS-2	FTP	50.00	36	22	29.5	5.2	17.5
30		ZPF	30.00	29	19	25.0	3.6	14.5
31	Pellet plant	Pellet plant process stack	50.00	48	17	30.2	10.6	35.3
32		Pellet plant dedusting stack	50.00	42	31	35.7	4.5	12.6
33	Coke Oven-1	Coke Oven 1_WHRB_1_and_2	50.00	48	39	43.2	3.3	7.7
34		Coke Oven 1_WHRB_3_and_4	50.00	45	36	40.2	3.3	8.2
35	Coke Oven-2	Coke_Oven_2_Process_Stack	50.00	41	15	34.3	9.7	28.2
36		Coke_Oven_2_Dedusting	50.00	48	16	38.3	11.5	30.0
37	Blast Furnace-2	BF_2_Cast_House	50.00	46	32	39.7	5.4	13.6

38	Blast Furnace-1	BF_1_Cast_House	50.00	48	31	40.5	5.8	14.2
39	Sinter Plant-1	Charging stack	50.00	40	40	40.0	16.3	40.8
40		Discharging	50.00	45	45	45.0	18.4	40.8
41	Sinter Plant-2	Process stack	50.00	42	38	39.7	1.5	3.8
42		De dusting	50.00	47	32	39.0	5.1	13.0
43	LCP	LCP-1	50.00	44	21.6	37.1	8.7	23.5
44		LCP-2	50.00	49	36	42.8	4.8	11.2
45		LCP-3	50.00	46	27	36.7	7.6	20.7
46		LCP-4	50.00	43	17	29.8	10.1	33.9
47		LCP-5	30.00	28	18	24.7	3.6	14.4
48		LCP-6	30.00	29	16	25.7	5.3	20.6
49	CSP	CSP, Tunnel Furnace (Line A Process Stack-I)	50.00	25	14	18	4.5	25.2
50		CSP, Tunnel Furnace (Line A Process Stack-II)	50.00	21	11	14.8	4.0	26.8
51		CSP, Tunnel Furnace (Line A Process Stack-III)	50.00	23	13	16.8	4.1	24.7
52		CSP, Tunnel Furnace (Line B Process Stack-I)	50.00	18	11	14.4	3.0	21.2
53		CSP, Tunnel Furnace (Line B Process Stack-II)	50.00	18	13	15.6	1.8	11.6
54		CSP, Tunnel Furnace (Line B Process Stack-III)	50.00	24	14	19.2	4.1	21.3
55	CRM	CRM Pickling #1	50.00	18	14	16	1.6	9.9
56		CRM Pickling #2	50.00	21	16	19	2.1	11.2
57		CRM Narro pickling Stack	50.00	13	10	11	1.2	11.1
58	WRM	WRM-1 Reheating Furnace Stack	50.00	32	19	24.4	5.0	20.6
59		WRM-2 Reheating Furnace Stack	50.00	28	18	22.6	4.6	20.2

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **CTO**: Consent to Operate Order No. 3615/IND-CON-4650, Date- 19.03.2026

Env. Laboratory In charge

The Statistical interpretation of treated wastewater quality

(Period of Oct'25 to Mar'26)

#	Sampling Location	Parameter	Standard as per CTO	Max	Min	Average	SD	RSD (%)
1	WWTP-1 Treated Water	pH	6.5 to 9.0	7.75	6.86	7.24	0.26	3.62
		TSS mg/l	<100	44	17	31.56	9.57	30.34
		TDS mg/l	<2100	1810	1212	1472.29	195.54	13.28
		COD mg/l	<250	74	32.6	51.04	14.70	28.80
		O&G mg/l	<10	5.8	4	5.17	0.54	10.42
		Fe mg/l	<1.0	0.81	0.236	0.45	0.20	44.87
2	WWTP-2 Treated Water	pH	6.5 to 9.0	7.56	7.04	7.34	0.17	2.33
		TSS mg/l	<100	32	12.4	21.11	6.28	29.76
		TDS mg/l	<2100	1440	908	1177.29	184.08	15.64
		COD mg/l	<250	43.8	16.4	30.54	10.17	33.30
		O&G mg/l	<10	6.1	2.8	4.24	1.26	29.62
		Fe mg/l	<1.0	0.89	0.218	0.46	0.20	44.48
3	WWTP-3 Treated Water	pH	6.5 to 9.0	7.78	6.68	7.20	0.34	4.79
		TSS mg/l	<100	34	16	23.74	6.79	28.61
		TDS mg/l	<2100	1841	984	1295.00	328.79	25.39
		COD mg/l	<250	59.8	24.6	39.74	11.59	29.16
		O&G mg/l	<10	6.5	3.2	4.59	1.27	27.69
		Fe mg/l	<1.0	0.49	0.198	0.38	0.09	22.64

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **CTO**: Consent to Operate Order No. 3615/IND-CON-4650, Date- 19.03.2026

Env. Laboratory In charge

The Statistical interpretation of treated effluent water (BETP) quality

(Period of Oct'25 to Mar'26)

#	Sampling Location	Parameter	Standard as per CTO	Max	Min	Average	SD	RSD (%)
1	Coke Oven-2 BETP Treated Water	pH	5.5 to 9.0	7.58	6.87	7.24	0.25	3.50
		TSS mg/l	<100	48	7.6	24.57	15.53	63.22
		Phenol mg/l	<1.0	<1.0	<1.0	-	-	-
		Cyanide mg/l	<0.2	<0.2	<0.2	-	-	-
		BOD mg/l	<30	22.2	14.2	18.65	2.42	13.00
		COD mg/l	<250	61.6	40.2	50.37	6.84	13.59
		Total Ammoniacal Nitrogen mg/l	<50	8.87	7.8	8.24	0.35	4.29
		O&G mg/l	<10	7.2	4.2	5.25	0.96	18.33
		TDS mg/l	<2100	1712	1320	1586.67	135.42	8.54
		Fe mg/l	<3.0	0.612	0.257	0.40	0.13	32.22
		Cr mg/L	<2.0	0.284	0.24	0.26	0.02	8.40

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **CTO**: Consent to Operate Order No. 3615/IND-CON-4650, Date- 19.03.2026, **BETP**: Biological Effluent Treatment Plant

Env. Laboratory In charge

The Statistical interpretation of treated sewage water quality

(Period of Oct'25 to Mar'26)

#	Sampling Location	Parameter	Standard as per CTO	Max	Min	Average	SD	RSD (%)
1	STP-1	pH	6.5-9.0	7.06	6.59	6.85	0.16	2.31
		TSS mg/l	<100	40	16.6	26.00	7.77	29.90
		BOD mg/l	<30	15.4	10.08	13.16	1.80	13.68
		F. Coliform (MPN/100 ml)	<1000	540	94	355.67	134.32	37.76
2	STP-2	pH	6.5-9.0	7.78	6.72	7.11	0.33	4.70
		TSS mg/l	<100	38	6.8	22.97	12.98	56.54
		BOD mg/l	<30	17	8.25	12.73	2.78	21.82
		F. Coliform (MPN/100 ml)	<1000	350	170	245.00	57.37	23.42
3	STP-3	pH	6.5-9.0	8.76	7.11	7.60	0.58	7.60
		TSS mg/l	<100	30	5.6	18.07	10.66	59.03
		BOD mg/l	<30	16.3	11.6	13.47	1.55	11.50
		F. Coliform (MPN/100 ml)	<1000	840	13.8	320.63	253.86	79.17

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **CTO**: Consent to Operate Order No. 3615/IND-CON-4650, Date- 19.03.2026

Env. Laboratory In charge

The Statistical interpretation of work zone noise monitoring

(Period of Oct'25 to Mar'26)

#.	Name of the Unit	Location	Max	Min	Average	SD	RSD
			dB(A)	dB(A)	dB(A)	dB(A)	(%)
1	DRI-1	Lobe comp. House (Outside)	84.8	80.1	82.9	1.9	2.31
	DRI-2	Lobe comp. House (Outside)	84.1	81.2	82.9	29.3	35.39
	DRI-3	Lobe comp. House (Outside)	84.2	79.9	82.3	1.9	2.28
	DRI-4	Lobe comp. House (Outside)	84.3	80.2	82.8	29.3	35.42
	DRI-5	Lobe comp. House (Outside)	84.8	81.2	83.3	29.5	35.40
	DRI-6	Lobe comp. House (Outside)	84.5	79.9	82.5	1.9	2.31
	DRI-7	Lobe comp. House (Outside)	83.1	80.1	81.8	29.0	35.39
	DRI-8	Lobe comp. House (Outside)	83.3	77.5	80.8	37.5	46.38
	DRI-9	Lobe comp. House (Outside)	84.8	81.9	83.1	29.4	35.38
	DRI-10	Lobe comp. House (Outside)	84.5	79.5	82.4	2.3	2.85
	DRI-11	Lobe comp. House (Outside)	84.1	80.3	82.1	1.6	1.89
	DRI-12	Lobe comp. House (Outside)	83.8	78.9	81.7	2.1	2.53
2	CPP 3X 130 MW	Turbine-1	84.9	82.0	83.8	1.3	1.56
		Turbine-2	84.8	83.9	84.4	0.4	0.48
		Turbine-3	84.7	81.1	83.0	1.5	1.82
		Boiler-1	83.2	80.1	82.0	1.4	1.66
		Boiler-2	84.6	80.4	82.8	1.8	2.16
		Boiler-3	84.2	80.9	82.9	1.4	1.63
		Boiler-4	84.8	81.2	83.5	1.5	1.81
		Boiler-5	84.7	81.2	83.5	1.5	1.81
		Boiler-6	84.8	81.7	83.5	1.3	1.51
3	CPP 100 MW	Turbine Area (40 MW)	84.8	80.1	82.9	29.4	35.45
		Turbine Area (60 MW)	84.9	83.3	84.3	0.8	0.89
		Feed Pump Area	84.9	80.7	83.2	1.9	2.29
		Boiler Area	84.8	79.0	82.7	2.4	2.94
4	Blast Furnace-I	Cast House	84.2	79.2	82.1	2.1	2.52
		Blower House Turbo (Blower-2)	84.7	79.4	82.6	2.5	3.02
		Blower House Motorized (Blower-3)	84.2	81.0	82.8	1.5	1.77
		Gas Cleaning Plant	84.6	80.6	82.7	1.7	2.04
		Stock House	84.0	80.6	82.2	1.6	1.89
5	Blast Furnace-2	Blower House Turbo (Blower-2)	84.6	81.1	82.7	1.5	1.81
		Blower House Motorized (Blower-3)	84.6	83.4	84.0	0.5	0.55
		Gas Cleaning Plant	84.9	80.6	82.4	1.7	2.02
		Stock House	84.0	79.8	81.7	1.6	1.97
6	Sinter Plant-2	Blower House	84.6	81.2	83.0	1.5	1.86
		Flux Charging area	84.3	76.4	81.4	3.5	4.26

		Proportional Building	84.6	76.1	81.5	3.8	4.62
7	Coke Oven-1	Battery Area	81.2	74.1	79.0	3.2	4.05
		Coke Cutting & Screening Building	83.2	72.2	79.8	4.8	6.05
8	Coke Oven-2	By-Product (Exhauster Area)	84.1	81.2	82.6	29.2	35.38
9	RMPP - I	Truck Tippling	84.6	81.4	83.4	1.3	1.61
		Stacking	84.8	77.5	82.8	3.3	3.96
		Coal Crushing Screening	84.8	82.7	84.0	0.9	1.05
		Ore Crushing & Screening	83.9	81.6	82.6	1.0	1.19
10	RMPP - II	Stacking & Reclaiming -3	84.9	81.0	82.6	1.6	1.98
		Stacking & Reclaiming -4	84.3	80.1	82.0	1.7	2.02
		Stacking & Reclaiming -5	84.4	81.5	82.9	1.2	1.40
11	RMPP-III	Infront of Office	83.2	71.2	77.2	5.1	6.66
		Coal reclaiming area	82.2	80.1	81.1	28.7	35.37
12	Coal Washery -I	Infront of office	77.8	71.1	74.1	3.1	4.24
		Near Silo	84.9	71.4	80.4	5.7	7.09
13	Coal Washery -II	Infront of office	80.1	70.1	75.7	4.3	5.74
14	LCP	Lime Sizing Area	84.9	81.2	82.9	1.7	2.06
15	Pellet Plant	Balling Disc Area	84.4	80.1	82.4	1.9	2.32
		Indurating machine Area	84.1	72.7	79.6	5.7	7.14
		Screening Area	84.5	82.4	83.7	0.9	1.13
		Updraught drying fan Area	84.4	74.9	80.5	4.0	4.98
		Wind Box Recuperation fan Area	81.4	79.0	80.0	1.1	1.36
		Cooling Air fan Area	83.7	78.5	80.9	2.2	2.78
16	Oxygen Plant-I	Air Filtration Area	84.3	82.7	83.4	0.7	0.89
		Air Compressor Area	84.8	83.9	84.3	0.4	0.45
		Air Purification Area	84.5	81.9	83.0	1.2	1.39
		Air Separation Area	84.1	81.5	82.7	1.3	1.53
		Distribution Area	84.8	78.7	81.8	2.4	2.96
17	SMS-I	EAF-1 Area	84.6	81.2	82.9	1.8	2.12
		EAF-2 Area	84.9	81.6	83.3	1.5	1.77
		EAF-3 Area	84.5	80.2	82.2	1.9	2.33
		EAF-4 Area	84.6	80.2	82.7	2.1	2.55
		LF 3&4 Area	84.9	81.1	83.1	1.7	2.06
		Near Office	79.2	77.2	78.2	0.9	1.21
18	SMS - II	EAF Area	84.1	82.2	83.0	0.9	1.07
		LRF Area	84.8	82.3	83.6	1.1	1.28
		VD Area	84.8	81.1	82.6	1.5	1.85
		Near Office	78.9	72.7	75.8	2.9	3.77
		Near Laboratory	77.3	71.6	74.1	2.6	3.50
19	Air Compressor Station	CPP 100 MW(Inside)	84.2	80.9	82.4	1.4	1.75
		CPP 3x130 MW UNIT 1 & 2 (inside)	84.6	82.2	83.6	1.1	1.34

		CPP 3x130 MW UNIT -3 (inside)	84.9	80.5	82.7	1.8	2.20
		CSP (Inside)	84.2	81.2	82.8	1.3	1.58
		Blast Furnace (inside)	84.8	82.2	83.6	1.0	1.24
		Pellet Plant (inside)	82.2	80.1	81.1	0.8	0.98
20	CSP	Mill Strand	84.6	82.0	83.4	1.2	1.43
		Down Coiler	84.9	80.2	83.1	1.9	2.33
21	CRM	Compressor House (IS)	84.8	81.2	83.5	1.5	1.79
		Mill area	84.3	81.4	82.9	29.3	35.38
		Near Corrugation Machine	84.8	75.3	82.2	4.2	5.16
		Near Chroma unit	84.5	81.7	83.0	1.3	1.53
22	WRM	Near Combination Air fan	83.4	81.4	82.4	0.8	1.02

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation

Standard asper CTO condition: 85 dB(A)

The Statistical interpretation of ambient zone noise monitoring

(Period of Oct'25 to Mar'26)

Location	Northeast Side Boundary Near CRM		Northwest Side Boundary Near Main Gate		Southwest Side Boundary Near ETP		Southeast Side Boundary Near Railway Gate	
Standard as per The Noise Pollution (Regulation and Control) Rules, 2000	Day Time	Nighttime	Day Time	Nighttime	Day Time	Nighttime	Day Time	Nighttime
	75 dB(A)	70 dB(A)	75 dB(A)	70 dB(A)	75 dB A)	70 dB(A)	75 dB (A)	70 dB(A)
Max (dB(A)	73	68	69	63	68	63	73	67
Min (dB(A)	62.5	41	61.8	40.2	63	41.2	62	40.5
Average (dB(A)	69.4	58.5	66.5	53.1	66.5	56.1	69.3	58.6
SD (dB(A)	4.8	12.1	3.2	10.1	2.4	10.0	4.9	12.2
RSD (%)	6.8	20.7	4.8	19.1	3.6	17.9	7.1	20.8

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation

Env. Laboratory In charge

The Statistical interpretation of ambient air quality monitoring

(Period of Oct'25 to Mar'26)

Ambient Air Quality Monitoring Station -1 Near Township												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	84	40	22	32	0.64	29.1	25.8	0.018	<6.0	<2.0	<3.5	<0.5
Min	71	36	13.2	25.5	0.52	22.8	10.5	0.012	<6.0	<2.0	<3.5	<0.5
Av	74.1	37.9	23.6	29.7	0.7	26.0	21.5	0.0	<6.0	<2.0	<3.5	<0.5
SD	3.97	2.20	6.65	3.89	0.11	3.15	6.86	0.00	NA	NA	NA	NA
RSD (%)	5.35	5.81	28.13	13.10	15.59	12.14	31.86	20.20	NA	NA	NA	NA

Ambient Air Quality Monitoring Station -2 Near Railway Gate												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	96	55	26.7	38.9	1.05	24.4	28.4	0.026	<6.0	<2.0	<3.5	<0.5
Min	79.8	36.4	21	26.2	0.58	20.8	13.2	0.022	<6.0	<2.0	<3.5	<0.5
Av	85.6	42.9	25.8	33.0	0.7	22.2	24.9	0.0	<6.0	<2.0	<3.5	<0.5
SD	5.11	5.91	3.61	5.58	0.13	1.80	6.77	0.00	NA	NA	NA	NA
RSD (%)	5.97	13.77	14.01	16.91	17.84	8.09	27.21	7.18	NA	NA	NA	NA

Ambient Air Quality Monitoring Station -3 Behind CRM												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	82	46	26	38.1	1.12	25.4	27.2	0.027	<6.0	<2.0	<3.5	<0.5
Min	71.5	36.7	18.4	24.3	0.48	25.4	11.8	0.021	<6.0	<2.0	<3.5	<0.5
Av	78.1	41.9	26.2	32.7	0.6	25.4	19.1	0.0	<6.0	<2.0	<3.5	<0.5
SD	4.00	4.19	7.17	5.41	0.20	0.00	6.24	0.00	NA	NA	NA	NA
RSD (%)	5.13	9.99	27.35	16.54	30.39	0.00	32.72	10.54	NA	NA	NA	NA

Ambient Air Quality Monitoring Station -4 Near ETP												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	90	48	25	33	0.78	23.8	33.6	0.031	<6.0	<2.0	<3.5	<0.5
Min	71	37	15.6	25	0.51	23.8	21	0.015	<6.0	<2.0	<3.5	<0.5
Av	78.0	42.1	20.2	29.8	0.6	23.8	27.6	0.0	<6.0	<2.0	<3.5	<0.5
SD	5.60	3.77	2.99	4.29	0.09	0.00	5.02	0.01	NA	NA	NA	NA
RSD (%)	7.18	8.95	14.83	14.42	15.66	0.00	18.21	32.55	NA	NA	NA	NA

Ambient Air Quality Monitoring Station -5 Near Tarini Mandir												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	79	44	29	35	0.65	27.7	29	0.022	<6.0	<2.0	<3.5	<0.5
Min	71	38	17.3	18.7	0.55	27.7	11.8	0.018	<6.0	<2.0	<3.5	<0.5
Av	66.5	36.1	18.8	24.7	0.5	17.2	19.3	0.0	<6.0	<2.0	<3.5	<0.5
SD	23.17	12.40	6.97	9.10	0.20	12.24	8.46	0.01	NA	NA	NA	NA
RSD (%)	34.84	34.40	37.01	36.81	41.19	71.32	43.79	31.31	NA	NA	NA	NA

Ambient Air Quality Monitoring Station -6 Near RO ZLD, Opposite of CO#2,												
Pollutants	**PM10**	**PM2.5**	**SO2**	**NOX**	**CO**	**O3**	**NH3**	**Pb**	**Ni**	**As**	**Benzene**	**BAP**
Standard as per NAAQMs 2009	**µg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**mg/m3**	**µg/m3**	**µg/m3**	**µg/m3**	**ng/m3**	**ng/m3**	**µg/m3**	**ng/m3**
	100	**60**	**80**	**80**	**2**	**100**	**400**	**1**	**20**	**6**	**5**	**1**
Max	94	53	29.7	38.3	1.05	28.1	32.8	0.034	<6.0	<2.0	<3.5	<0.5
Min	72	33	19.8	23.5	0.63	21.8	13.4	0.017	<6.0	<2.0	<3.5	<0.5
Av	73.3	38.8	22.0	29.2	0.7	19.8	20.2	0.0	<6.0	<2.0	<3.5	<0.5
SD	21.00	12.37	6.84	9.29	0.26	5.85	7.03	0.01	NA	NA	NA	NA
RSD (%)	28.66	31.90	31.15	31.83	40.67	29.51	34.82	47.84	NA	NA	NA	NA

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **BAP**: Benzo (a) Pyrene, **NAAQMs**: National Ambient Air Quality Monitoring

Env. Laboratory In-charge

The Statistical interpretation of ground water quality monitoring

(Period of Oct'25 to Mar'26)

#	Parameter	Unit	Standard as per IS 10500:2012	Tailing pond borewell					Bishidhi Village (Hand Pump)				
				Max	Min	Average	SD	RSD(%)	Max	Min	Average	SD	RSD(%)
1	Color	Hazen	5	4	1	2.20	1.30	59.27	5	1	3.33	1.63	48.99
2	pH	--	6.5 - 8.5	7.98	6.67	7.29	0.57	7.83	8.05	6.55	7.14	0.61	8.61
3	Turbidity	NTU	1	0.86	0.68	0.76	0.42	55.46	1.32	0.81	0.96	0.53	55.14
4	TDS	mg/l	500	540	448	486.40	37.08	7.62	472	241	337.83	78.67	23.29
5	Aluminum	mg/l	<0.006	<0.02	<0.02	<0.02	-	-	<0.02	<0.02	<0.02	-	-
6	Boron	mg/l	0.5	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	-	-
7	Calcium	mg/l	75	50	35.7	44.24	6.74	15.23	35	20.4	29.55	5.27	17.82
8	Chloride	mg/l	250	248	23.7	131.90	101.41	76.88	70.3	19.7	42.60	19.52	45.83
9	Copper	mg/l	0.05	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-
10	Fluoride	mg/l	1	0.452	0.24	0.34	0.09	25.69	0.82	0.19	0.44	0.31	69.36
11	RFC	mg/l	0.2	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	-
12	Iron	mg/l	0.3	0.89	0.037	0.29	0.37	130.05	0.78	0.056	0.24	0.30	124.50
13	Magnesium	mg/l	30	24.5	15.7	18.52	3.65	19.68	21.1	10.4	15.07	4.32	28.69
14	Manganese	mg/l	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
15	Nitrate	mg/l	45	12.8	5.4	8.15	3.06	37.51	23.2	10.6	15.97	5.14	32.17
16	Phenolic Compounds	mg/l	0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-
17	Selenium	mg/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
18	Sulphate	mg/l	200	20.6	2.57	9.35	7.06	75.51	20.4	3.19	9.09	6.27	68.90
19	Total Alkalinity	mg/l	200	145	35.3	78.74	55.65	70.68	133	88.2	110.53	16.76	15.16
20	Total Hardness	mg/l	200	192	176	185.60	6.54	3.52	174	108	136.17	25.65	18.84
21	Zinc	mg/l	5	0.52	0.52	0.52	0.23	44.72	1.09	1.09	1.09	0.44	40.82
22	Cadmium	mg/l	0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	-	-
23	Cyanide	mg/l	0.05	<0.012	<0.012	<0.012	-	-	<0.012	<0.012	<0.012	-	-
24	Lead	mg/l	0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
25	Mercury	mg/l	0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-

26	Total Arsenic	mg/l	0.01	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	-	-
27	Oduor	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
28	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
29	MBAS	mg/l	0.2	<0.025	<0.025	<0.025	-	-	<0.025	<0.025	<0.025	-	-
30	Mineral Oil	mg/l	0.5	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-

#	Parameter	Unit	Standard as per IS 10500:2012	Thelkoloi Village Tube Well					Sripura Village Tube Well				
				Max	Min	Average	SD	RSD(%)	Max	Min	Average	SD	RSD(%)
1	Color	Hazen	5	4	1	2.33	1.51	64.52	5	1	3.17	1.83	57.94
2	pH	--	6.5 - 8.5	7.95	6.63	7.30	0.54	7.35	7.45	6.55	6.91	0.39	5.65
3	Turbidity	NTU	1	1.14	0.56	0.75	0.44	58.42	1.34	0.74	0.91	0.52	57.31
4	TDS	mg/l	500	496	412	457.50	35.78	7.82	496	368	457.33	47.24	10.33
5	Aluminum	mg/l	<0.006	<0.02	<0.02	<0.02	-	-	<0.02	<0.02	<0.02	-	-
6	Boron	mg/l	0.5	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	-	-
7	Calcium	mg/l	75	62	27.5	43.05	14.61	33.93	69.5	32.3	45.42	13.05	28.74
8	Chloride	mg/l	250	132	21.7	83.67	52.68	62.97	104	25.6	63.57	34.62	54.46
9	Copper	mg/l	0.05	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-
10	Fluoride	mg/l	1	0.44	0.17	0.32	0.17	54.90	484	0.27	97.06	197.48	203.46
11	RFC	mg/l	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
12	Iron	mg/l	0.3	1.34	0.05	0.58	0.53	90.69	0.68	0.036	0.29	0.28	96.75
13	Magnesium	mg/l	30	20	10.4	15.87	3.99	25.17	24.8	10.4	16.38	4.81	29.36
14	Manganese	mg/l	0.1	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-
15	Nitrate	mg/l	45	40.2	14.5	30.07	10.71	35.62	42	6.71	27.36	15.93	58.23
16	Phenolic Compounds	mg/l	0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-
17	Selenium	mg/l	0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
18	Sulphate	mg/l	200	48.5	12.8	32.72	15.10	46.15	82.8	10.6	46.53	35.10	75.43
19	Total Alkalinity	mg/l	200	193	96	145.33	40.73	28.03	191	111	150.50	39.14	26.01
20	Total Hardness	mg/l	200	194	132	162.67	26.23	16.12	190	145	167.33	15.95	9.53
21	Zinc	mg/l	5	0.4	0.4	0.40	0.16	40.82	0.2	0.2	0.2	0.08	40.82
22	Cadmium	mg/l	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-

23	Cyanide	mg/l	0.05	<0.012	<0.012	<0.012	-	-	<0.012	<0.012	<0.012	-	-
24	Lead	mg/l	0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
25	Mercury	mg/l	0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-
26	Total Arsenic	mg/l	0.01	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	-	-
27	Oduor	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
28	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
29	MBAS	mg/l	0.2	<0.025	<0.025	<0.025	-	-	<0.025	<0.025	<0.025	-	-
30	Minarl Oil	mg/l	0.5	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-

#	Parameter	Unit	Standard as per IS 10500:2012	Lapanga Village, Hand-pump					Dhubanchapal Village Tube Well					Gumkarma Village Hand pump				
				Max	Min	Average	SD	RSD (%)	Max	Min	Average	SD	RSD (%)	Max	Min	Average	SD	RSD (%)
1	Color	Hazen	5	3	1	1.5	1	66.7	5	1	2.75	2.06	75.0	1	1	1.66	1.26	75.5
2	pH	--	6.5 - 8.5	7.32	7.15	7.2125	0.07	1.0	7.98	6.78	7.43	0.55	7.4	7.79	6.55	6.91	0.59	8.6
3	Turbidity	NTU	1	185	0.78	47.035	91.98	195.5	0.86	0.86	0.86	0.43	50.0	1.5	0.72	1.05	0.62	59.0
4	TDS	mg/l	500	480	232	306	116.96	38.2	490	272	391.5	93.10	23.8	492	301	353.25	92.73	26.2
5	Aluminum	mg/l	<0.006	<0.02	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-
6	Boron	mg/l	0.5	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-
7	Calcium	mg/l	75	48.3	27.9	35.275	8.95	25.4	48.3	33.9	38.05	6.89	18.1	42	18.6	32	9.89	30.9
8	Chloride	mg/l	250	69.8	19.7	34.95	23.38	66.9	89.3	27.6	51.22	29.33	57.3	56	23.7	38.75	17.47	45.1
9	Copper	mg/l	0.05	<0.03	<0.03	<0.03	-	-	-	-	-	-	-	<0.03	<0.03	<0.03	-	-
10	Fluoride	mg/l	1	0.386	0.14	0.263	0.18	69.2	0.422	0.15	0.286	0.20	69.6	0.19	0.19	0.29	0.19	65.0
11	RFC	mg/l	0.2	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	0.07	-
12	Iron	mg/l	0.3	0.057	0.057	0.057	0.03	50.0	0.54	0.06	0.37	0.29	77.6	0.62	0.066	0.34	0.30	87.6
13	Magnesium	mg/l	30	15.7	5.66	11.1	5.25	47.3	21.6	13.2	17.6	4.22	24.0	14.1	9.43	12.18	1.97	16.2
14	Manganese	mg/l	0.1	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	-
15	Nitrate	mg/l	45	14.8	5.81	10.1275	4.04	39.9	38.6	6.13	19.50	14.04	72.0	15.3	7.11	16.75	13.59	81.1
16	Phenolic Compounds	mg/l	0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	-	-
17	Selenium	mg/l	0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	-
18	Sulphate	mg/l	200	30.6	6.63	14.8575	10.71	72.1	110	9.71	43.45	45.65	105.1	20.2	8.96	13.79	5.10	37.0

19	Total Alkalinity	mg/l	200	195	96.5	126.75	46.72	36.9	143	92	123	21.80	17.7	117	84	98.35	15.11	15.4
20	Total Hardness	mg/l	200	184	93.1	133.775	39.73	29.7	181	140	167.5	18.59	11.1	156	85.4	130.1	31.40	24.1
21	Zinc	mg/l	5	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	-
22	Cadmium	mg/l	0.003	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	-	-	<0.003	<0.003	<0.003	-	-
23	Cyanide	mg/l	0.05	<0.012	<0.012	<0.012	-	-	<0.012	<0.012	<0.012	-	-	<0.012	<0.012	<0.012	-	-
24	Lead	mg/l	0.01	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
25	Mercury	mg/l	0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-
26	Total Arsenic	mg/l	0.01	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	-	-
27	Oduor	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
28	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-	Agreeable	Agreeable	Agreeable	-	-
29	MBAS	mg/l	0.2	<0.025	<0.025	<0.025	-	-	<0.025	<0.025	<0.025	-	-	<0.025	<0.025	<0.025	-	-

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation,

Env. Laboratory In charge

The Statistical interpretation of surface water quality

(Period of Oct'25 to Mar'26)

Location			Bishidihi Village Pond					Sripura Village Pond					Thelkolol Village Pond				
#	Parameter	UOM	Max	Min	Average	SD	RSD (%)	Max	Min	Average	SD	RSD (%)	Max	Min	Average	SD	RSD (%)
1	pH (at 25°C)		7.39	7.16	7.3	0.09	1.20	7.37	7.13	7.2	0.10	1.43	7.71	6.98	7.25	0.33	4.60
2	Electrical Conductivity (at 25°C)	µs/cm	1088	427	734.4	299.49	40.78	570	228	401.6	134.99	33.61	769	439	607.80	142.68	23.47
3	Total Dissolve Solid (at 180°C)	mg/l	778	284	526.4	226.94	43.11	376	164	258.4	89.68	34.71	442	292	378.00	65.83	17.42
4	Total Hardness (as CaCO3)	mg/l	323	128	223.0	89.81	40.27	168	80.3	126.1	36.29	28.79	278	147	214.40	56.90	26.54
5	Total Alkalinity (as CaCO3)	mg/l	145	76	102.0	29.93	29.35	109	68.6	90.6	19.66	21.69	147	96.5	128.90	19.73	15.31
6	Chloride (as Cl)	mg/l	269	25.6	133.4	115.66	86.69	32.5	17.2	24.1	7.07	29.32	103	31.5	73.20	34.49	47.11
7	Sulphate (as SO4)	mg/l	20.7	8.39	12.0	5.77	48.17	21.1	7.78	13.5	5.96	43.98	53	13.8	37.18	19.05	51.25
8	Nitrate (as NO3)	mg/l	17.6	11.6	14.6	8.82	60.42	17.2	1.03	11.7	9.17	78.52	11.8	0.81	7.60	6.06	79.68
9	Calcium (as Ca)	mg/l	77.5	32.6	52.2	21.20	40.65	40	19.6	27.6	10.36	37.52	63.5	34.1	49.46	13.22	26.73
10	Magnesium (as Mg)	mg/l	36.2	10.7	22.6	10.74	47.47	18.9	7.6	13.8	4.38	31.67	31.5	15.1	22.14	6.85	30.96
11	Chemical Oxygen Demand (as COD)	mg/l	14	11.2	12.6	7.23	57.38	19	13.1	16.2	8.98	55.55	18	14.7	16.35	9.33	57.09
12	Biochemical Oxygen Demand (as BOD) for 3 days (at 27°C)	mg/l	2.76	2.25	2.5	1.43	57.12	2.92	2.2	2.6	1.40	54.34	2.87	2.81	2.84	1.56	54.97
13	Cyanide (as CN)	mg/l	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
14	Phenolic Compounds (as C6H5OH)	mg/l	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-
15	Copper (as Cu)	mg/l	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	-	-

16	Iron (as Fe)	mg/l	2.62	0.094	1.4	1.34	98.84	2.62	0.064	1.3	1.42	106.08	1.13	0.061	0.42	0.57	135.25
17	Manganese (as Mn)	mg/l	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-
18	Zine (as Zn)	mg/l	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-
19	Boron (as B)	mg/l	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	-	-
20	Total Arsenic (as As)	mg/l	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	-	-
21	Mercury (as Hg)	mg/l	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	-	-	<0.004	<0.004	<0.004	-	-
22	Lead (as Pb)	mg/l	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	-	-
23	cadmium (as Cd)	mg/l	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	-	-
24	Selenium (as Se)	mg/l	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-
25	Aluminum (as Al)	mg/l	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	-	-
26	Mineral Oil	mg/l	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-
27	Free Ammonia (as NH3)	mg/l	<1	<1	<1	-	-	<1	<1	<1	-	-	<1	<1	<1	-	-
28	Anionic Detergents (as MBAS)	mg/l	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	-	-

Remarks:

Max: Maximum, **Min**: Minimum, **SD**: Standard deviation, **RSD**: Relative standard deviation, **CTO**: Consent to Operate Order No. 3615/IND-CON-4650, Date- 19.03.2026

Env. Laboratory In charge

	Fugitive Monitoring Report of DRI-9&10			Environment Management Department DocNo: JJSL/EMD/LAB/QF/055		
Sl. No.	plant	Name of Location	Sample ID	Date	Result	Unit
1	DRI-9&10	Day Bin Area(Ground Floor)	EMD/LAB/F/26-27/0755	08.06.2026	1396	µg/m³
2	DRI-9&10	Day Bin Area(1st floor)	EMD/LAB/F/26-27/0756	08.06.2026	1275	µg/m³
3	DRI-9&10	Conveyor belt 15 No tail End	EMD/LAB/F/26-27/0757	08.06.2026	1792	µg/m³
4	DRI-9&10	Cooler Inlet slip seal of K-9	EMD/LAB/F/26-27/0758	08.06.2026	2307	µg/m³
5	DRI-9&10	Cooler ourlet slip seal of K-9	EMD/LAB/F/26-27/0759	08.06.2026	1322	µg/m³
6	DRI-9&10	Cooler Inlet slip seal of K-10	EMD/LAB/F/26-27/0760	08.06.2026	1289	µg/m³
7	DRI-9&10	Cooler Outlet slip seal of K-10	EMD/LAB/F/26-27/0761	08.06.2026	1326	µg/m³
8	DRI-9&10	CD Belt tail end of K-9	EMD/LAB/F/26-27/0762	08.06.2026	1235	µg/m³
9	DRI-9&10	CD Belt tail end of K-10	EMD/LAB/F/26-27/0763	08.06.2026	1562	µg/m³
10	DRI-9&10	CD Belt Head end of K-9&10	EMD/LAB/F/26-27/0764	08.06.2026	1400	µg/m³
11	DRI-9&10	PSB Building (Ground Floor)	EMD/LAB/F/26-27/0765	08.06.2026	3174	µg/m³
12	DRI-9&10	PSB Building (Top Floor)	EMD/LAB/F/26-27/0766	08.06.2026	1890	µg/m³
13	DRI-9&10	PSB- Mag & Non-Mag Area	EMD/LAB/F/26-27/0767	08.06.2026	2412	µg/m³
14	DRI-9&10	I-Bin Area	EMD/LAB/F/26-27/0768	08.06.2026	1635	µg/m³
15	DRI-9&10	Cooler Over size Area of K-9	EMD/LAB/F/26-27/0769	08.06.2026	1425	µg/m³
16	DRI-9&10	Cooler Over size Area of K-10	EMD/LAB/F/26-27/0770	08.06.2026	1307	µg/m³
17	DRI-9&10	Feed JH-37(CB) Head end of K-9	EMD/LAB/F/26-27/0771	08.06.2026	1796	µg/m³
18	DRI-9&10	Feed JH-37(CB) Head end of K-10	EMD/LAB/F/26-27/0772	08.06.2026	2110	µg/m³
19	DRI-9&10	Feed JH-37(CB) Tail end of K-9&10	EMD/LAB/F/26-27/0773	08.06.2026	1655	µg/m³
20	DRI-9&10	Char Separation Building (Ground)	EMD/LAB/F/26-27/0774	08.06.2026	1305	µg/m³
21	DRI-9&10	Char Separation Building (Top)	EMD/LAB/F/26-27/0775	08.06.2026	1884	µg/m³
22	DRI-9&10	Silo Area	EMD/LAB/F/26-27/0776	08.06.2026	1899	µg/m³
23	DRI-9&10	Mechanical Office	EMD/LAB/F/26-27/0777	08.06.2026	172	µg/m³

Annexure-XVII

JSW JFE Steel Limited

ISW JFE Steel Limited
(formerly known as JSW Sambalpur Steel Limited)
5th Floor, JSW Centre, Bandra Kurla Complex
Mumbai - 400 051, India
CIN. U25999MH2025PLC458190
T +91 22 4286 1000
W www.jswjfesteel.in

JJSL/ENV/26-27/16 **Date-12.05.2026**

The Member Secretary
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
Shahdara, Delhi-110032(INDIA)

Subject: Compliance Report on Ash Generation & Utilization for the Period from 1st Apr'25 to 31st Mar'26

Reference: MoEF & CC Notification S.O. 5481(E) dated 31st December 2021.

Dear Sir,

With reference to the subject cited above, we hereby submit the Annual Compliance Report on Ash Generation and Utilization for the period from 1st April 2025 to 31st March 2026 in respect of JSW JFE Steel Limited (formerly Bhushan Power & Steel Limited).This submission is made in compliance with the provisions of the MoEF & CC notification referred above.

The point-wise compliance report is enclosed herewith as Annexure-I for your kind perusal and record.

In case any further information or clarification is required in this regard, we shall be pleased to furnish the same promptly.

Thanking you.

Yours faithfully,

For **JSW JFE Steel Limited**

Saurabh Singh
HOD-Environment

Encl: As above

Copy to:

I. Deputy Director general of Forest(C), Ministry of Environment Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharpur.Bhubaneswar-751023.
II. The Member secretary, Odisha State Pollution Control Board, A/118, Nilakantha Nagar, unit-VIII, Bhubaneswar-751012 Odisha
III. Regional officer, Odisha State Pollution Control Board, Sambalpur, Odisha

JSW JFE Steel Limited

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JJSL/ENV/26-27/16 **Date-12.05.2026**

The Member Secretary
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
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For **JSW JFE Steel Limited**

Saurabh Singh
HOD-Environment

Encl: As above



Copy to:

I. Deputy Director general of Forest(C), Ministry of Environment Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharpur.Bhubaneswar-751023.
II. The Member secretary, Odisha State Pollution Control Board, A/118, Nilakantha Nagar, unit-VIII, Bhubaneswar-751012 Odisha
III. Regional officer, Odisha State Pollution Control Board, Sambalpur, Odisha



Annexure-1

Ash Compliance Annual Report - FY 2025-26		
S. N	Details	
1	Name of Power plant	Captive Power Plant of **JSW JFE Steel Limited** (Formerly Bhushan Power & Steel Limited)
2	Name of company	**JSW JFE Steel Limited** (Formerly Bhushan Power Steel Limited)
3	District	Sambalpur
4	State	Odisha
5	Postal address for communication:	Vill. Thelkoloi, P.O. Lapanga Tehsil - Rengali, Odisha-768212
6	E-mail-	environment.bpsl@jsw.in
7	Power plant installed capacity (MW):	506 MW
8	Plant load Factor (PLF):	84.7%
9	No of Unit Generated (MWh):	3X130 MW 1x40MW 1x 60MW 2x8MW
10	Total area under power plant (ha) (including area under ash ponds):	17.11 Ha for CPP (No Ash Pond)
11	Quantity of coal consumption during reporting period (Metric tons per Annum):	2486789 MT
12	Average ash content in percentage (percent):	49.42%
13	Quantity of current ash generation during reporting period (Metric tons per Annum):	1228872 MT
	Fly ash (Metric tons per Annum):	976844 MT
	Bottom ash (Metric tons per Annum):	252028 MT
14	Capacity of dry fly ash storage silo(s) (Metric tons):	8x1500=12000MT+2x1150=2300MT (Total 14300 MT)
15	Details of utilisation of current ash generated during reporting period	
	(a) Total quantity of current ash utilised (MTPA) during reporting period:	1228872 MT
	(b) Quantity of fly ash utilised (MTPA):	976844 MT
	(i) Fly ash-based products (bricks or block or tiles or fibre cement sheets or pipes or boards or panels)	460247 MT
	(ii) Cement manufacturing:	25330 MT
	(iii) Ready mix concrete:	Nil
	(iv) Ash and geo-polymer-based construction material	Nil
	(v)Manufacturing of sintered or cold bonded ash aggregate:	Nil
	(vi) Construction of roads, road and fly over embankment:	424481 MT

	(vii) Construction of dams:	Nil
	(viii) Filling up of low-lying area:	63060 MT
	(ix) Filling of mines voids:	Nil
	(ix) Use in overburden dumps:	Nil
	(xi) agriculture	Nil
	(xii)Construction of shoreline protection structures in coastal districts:	Nil
	(xiii)Export of ash to other countries:	Nil
	(xiv) other (Dyke/Embankment Raising):	3726 MT
	(c) Quantity of bottom ash utilised (MTPA):	252028 MT
	(i) Fly ash-based products (bricks or block or tiles or fibre cement sheets or pipes or boards or panels)	187386 MT
	(ii) Cement manufacturing:	Nil
	(iii) Ready mix concrete:	Nil
	(iv) Ash and geo-polymer-based construction material	Nil
	(v) Manufacturing of sintered or cold boned ash aggregate:	Nil
	(vi) Construction of roads, road and flyover embankment:	50576 MT
	(vii) Construction of dams:	Nil
	(viii) Filling up of low-lying area:	14066 MT
	(ix) Filling of mine voids:	Nil
	(x) Use in overburden dumps:	Nil
	(xi) agriculture	Nil
	(xii)Construction of shoreline protection structures in coastal districts:	Nil
	(xiii)Export of ash to other countries:	Nil
	(xiv) other (please specify):	
	Total quantity of current ash unutilised (MTPA)during reporting period:	Nil
16	Percentage utilisation of currents ash generated during reporting period (percent):	100%
17	Details of disposal of ash in ponds	NA
	(a)Total quantity of ash disposed in ash pond(s)(metric tons) as on 31thMarch (excluding reporting period):	NA
	(b)Quantity of ash disposed in ash pond(s)during reporting	NA
	(c) Total quantity of water consumptions for slurry discharge into ash ponds during reporting periods (m3):	NA
	(d) Total number of ash ponds:	NA
	(i) Active:	NA
	(ii) Exhausted (yet to be reclaimed):	NA
	(iii) Reclaimed:	NA
	(e) Total area under ash ponds (ha):	NA

	Individual ash pond details	NA
	Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one	NA
	(a) Status: Under construction or Active or Exhausted or Reclaimed	NA
	(b) Date of start of ash disposal in ash pond (DD/MM//YYYY or MMYYYY):	NA
	(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds)	NA
	(c) Area:	NA
	(d) Dyke height (m):	NA
	(d) Volume(m3):	NA
	(e) quantity of ash disposed as on 31st march (Metric tons):	Nil
	(f) Available volume in percentage (percentage) and quantity of ash can be further disposed (Metric Ton)	Nil
18	(g) Expected life of ash pond (number of years and months):	NA
	(e) Co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)	NA
	(f) Types of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	NA
	(g) Mode of disposal: Dry disposal or slurry (in case of wet slurry slurry please specify whether HCSD or MCSD or LCSD)	NA
	(h) Ratio of ash: water in slurry mix(I:____):	NA
	(i) Ash water recycling system (AWRS) installed and functioning: Yes or No:	NA
	(j) Quantity of wastewater from ash pond discharged into land or water body(m3):	NA
	(k) Last date when the dyke stability was conducted and name of the organisation who conducted the study:	NA
	(l) Last date when the audit was conducted and name of the organisation who conducted the audit:	9th July 2025 by Dr. Amit Kumar Gorai of NIT Rourkela. Odisha

19	Quantity of legal ash utilised (MTPA):	Nil
	i. Fly ash-based products (bricks or blocks or tiles or fibre cement sheet or pipes or boards or panels):	Nil
	ii. Cement manufacturing:	Nil
	iii. Ready mix concrete:	Nil
	iv. Ash and Geo-polymer-based construction material:	Nil
	v. Manufacturing of sintered or cold bonded ash aggregate:	Nil
	vi. Construction of roads and flyover embankment:	Nil
	vii. Construction of dams:	Nil
	viii. Filling up of low-lying area:	Nil
	ix. Filling of mine voids:	Nil
	x. Use in overburden dumps:	Nil
	xi. Agriculture:	Nil
	xii. Construction of shoreline protection structures in coastal districts:	Nil
	xiii. Export of ash to other countries:	Nil
	(xiv) Others (please specify):	Nil

20 Summary:

Details	Quantity generated (MTP)	Quantity utilised (MTP) and (percent)	Balance quantity (MTP)
Current ash during reporting period	1228872	1228872	0
Legacy ash	0	0	0
Total	1228872	1228872	0

21	Any other information: Soft copy of the annual compliance report and shape files of powerplant and ash may be e-mailed to: moefcc-coalash@gov.in	
22	Signature of Authorised Signatory	

Annexure-XIX

JSW JFE Steel Limited

JSW JFE Steel Limited
(formerly known as JSW Sambalpur Steel Limited)
5th Floor, JSW Centre, Bandra Kurla Complex
Mumbai - 400 051, India
CIN. U29999MH2025PLC458190
T +91 22 4286 1000
W www.jswjfesteel.in

JJSL/ENV/26-27/030 **Date:25.06.2026**

The Member secretary
State Pollution control Board, Odisha
Paribesh Bhawan,A/118, Nilakantha Nagar
Unit-VIII, Bhubaneswar-751012

Subject: Submission of Annual Return under Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016.

Reference: HW Authorization No. IND-IV-HW-1348/3599 dated 19.07.2025

Dera Sir,
With reference to the subject cited above, please find enclosed herewith the Annual Return in Form–IV pertaining to Hazardous and Other Waste for the period from April'25 to Mar'26. This is in accordance with Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016.

We trust that the above submission is in order. Should you require any further information or clarification, we shall be pleased to furnish the same promptly.

Thanking you,

Your; faithfully,
For **JSW JFE Steel Limited**

25/6/26
Saurabh Singh
HOD-Environment

Encl- As stated above

Copy to- Regional officer Odisha State Pollution Control Board, Sambalpur



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For **JSW JFE Steel Limited**

25/6/26
Saurabh Singh
HOD-Environment

Encl- As stated above

Copy to- Regional officer Odisha State Pollution Control Board, Sambalpur

FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[For the preceding period of **April-2025 to March-2026**]

1.	Name and address of facility	**JSW JFE Steel Limited** At-Thelkoloi,Po-Lapanga Dist-Sambalpur, Odisha, Pin-768212
2.	Authorization No. and Date of issue:	IND-IV-HW-1348/3599 dated 19.07.25
3.	Name of the authorized person and full address with telephone, fax number and e-mail:	**Saurabh Singh** **HOD-Environment** JSW JFE Steel Limited At- Thelkoloi, PO- Lapanga, Dist-Sambalpur, Odisha. Pin-768212 e-mail- s.saurabh@jsw.in.
4	Production during the year (product wise), wherever applicable	Crude Steel-3854454 MT Power-415 mwh
	Part A. **To be filled by hazardous waste generators**	
1.	**Total quantity of waste generated category wise during-Apr'25 to Mar'26**	**Approximate Waste Generation Quantity (in MT)**
a	Used oil /spent oil	72
b	Waste oil (oil sludge or emulsion)	20
c	Waste /residue containing oil (Oil-soaked cotton waste)	112.85
d	Waste pickled liquor	43.621
e	Acid residue	0
f	Alkali residue	0
g	Spent ion exchange resin containing toxic metal	0
h	Decanter tank tar sludge	0
i	Tar storage tank residue	0
j	Spent carbon or (filter materials having organic compound)	0
k	Zinc fines or dust or ash or skimming in dispersible form (Zinc dross)	1189.14
l	Empty barrels /contaminated with hazardous chemical/ wastes discarded PVC container	1.2
m	Chemical sludge from wastewater treatment (ETP plant)	222
n	Oil and grease skimming residue	197
o	Spent Sulphur	0
p	Sludge from Acid Recovery Unit	0
q	Chromium sludge from wastewater treatment plant	0

r	Spent solvent	26
s	Exhaust air or gas cleaning residue (residue from storage tank).	0
t	Insulation glass wool	0
2.	**Quantity Dispatched**	
(i)	**To Disposal Facility**	Quantity (MT)
(a)	Chemical Sludge from ETP	218.28
(b)	Oil & Grease Skimming Residue	204.68
(ii)	**To Recycler or Coprocessors or pre- processor**	
(a)	Used Oil (5.1)	76.83
(b)	Waste /Residues Containing Oil (Oil-Soaked cotton waste)	108.54
(c)	Discarded container /Barrels	2.07
(d)	Zinc fines/Dust/Ash/Skimming (dispersible form)	1217.22
(e)	Oily Sludge / Emulsion	19.70
(f)	Spent Solvent	25.19
(iii)	**Others**	NA
3.	**Quantity utilized in-house, if any**	
(a)	Waste pickled liquor	42910
4.	**Quantity in storage at the end of the year 2025-26**	**Approx. Quantity (in MT)**
a	Used oil /spent oil	1.61
b	Waste oil (oil sludge or emulsion)	0.66
c	Waste /residue containing oil (Oil-soaked cotton waste)	4.31
d	Waste pickled liquor	711
e	Acid residue	0
f	Alkali residue	0
g	Spent ion exchange resin containing toxic metal	0
h	Decanter tank tar sludge	0
i	Tar storage tank residue	0
j	Spent carbon or (filter materials having organic compound)	0
k	Zinc fines or dust or ash or skimming in dispersible form (Zinc dross)	1.06
l	Empty barrels /contaminated with hazardous chemical/ wastes discarded PVC container	0.1
m	Chemical sludge from wastewater treatment (ETP plant)	5.8

n	Oil and grease skimming residue	2.45
o	Spent Sulphur	0
p	Sludge from Acid Recovery Unit	0
q	Chromium sludge from wastewater treatment plant	0
r	Spent solvent	0.81
s	Exhaust air or gas cleaning residue (residue from storage tank).	0
t	Insulation glass wool	0
	Part B. **To be filled by Treatment, storage and disposal facility operators**	
1	Total quantity received -	NA
2	Quantity in stock at the beginning of the year	NA
3	Quantity treated	NA
4	Quantity disposed in landfills as such and after treatment	NA
5	Quantity incinerated (if applicable) -	NA
6	Quantity processed other than specified above	NA
7	Quantity in storage at the end of the year -	NA
	Part C. **To be filled by recyclers or co-processors or other users**	
1.	Quantity of waste received during the year	NA
(i)	Domestic sources	NA
(ii)	Imported (if applicable)	NA
2.	Quantity in stock at the beginning of the year	NA
3.	Quantity recycled or co-processed or used	NA
4.	Quantity of products dispatched (wherever applicable)	NA
5.	Quantity of waste generated	NA
6.	Quantity of waste disposed	NA
7.	Quantity re-exported (wherever applicable)	NA
8.	Quantity in storage at the end of the year	NA

Date: 25.06.2026
Place Thelkoloi

Signature of the Occupier or
Operator of the disposal Facility

Annexure – XX

O/C

JSW JFE Steel Limited

JSW JFE Steel Limited
(Formerly known as JSW Sambalpur Steel Limited)
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JJSL/ENV/26-27/029 **Date: 25.06.2026**

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

Subject: Submission of Annual Return under Biomedical Waste (Management & Handling) Rules, 2016 for calendar Year 2025.

Reference-Authorization No-18502/IND-IV-BW-3851 Dated-15.10.2025

Dear Sir,
With reference to the subject cited above, please find enclosed herewith the Annual Return in Form–IV pertaining to Biomedical Waste generation and disposal for the period from January 2025 to December 2025.This is in accordance with the provisions of the Biomedical Waste (Management & Handling) Rules, 2016.

We trust that the submission is in order. However, should any further information or clarification be required, we shall be pleased to provide the same.

Thanking you,

Yours faithfully,
For **JSW JFE Steel Limited**

25/6/26

Saurabh Singh
HOD-Environment

Encl- As stated Above

Copy to- Regional officer Odisha State Pollution Control Board, Sambalpur

No. Dt.
RECEIVED
29 JUN 2026
S.P.C. BOARD
BHUBANESWAR

JSW JFE Steel Limited

JSW JFE Steel Limited
(formerly known as JSW Sambalpur Steel Limited)
5th Floor, JSW Centre, Bandra Kurla Complex
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State Pollution Control Board, Odisha
Paribesh Bhawan, A/118, Nilakantha Nagar
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Your; faithfully,
For **JSW JFE Steel Limited**

25/6/26

Saurabh Singh
HOD-Environment

Encl- As stated Above

Copy to- Regional officer Odisha State Pollution Control Board, Sambalpur

Form - IV
(See rule 13)
ANNUAL REPORT

[(Period from Jan'25 to Dec'25)]

S.N.	Particulars	
1	Particulars of the Occupier	
	(i) Name of the authorized person (occupier or operator of facility)	**Shri Umesh Rai** Occupier
	(ii) Name of HCF or CBMWTF	Occupational Health Center
	(iii) Address for Correspondence	JSW JFE Steel Limited, At- Thelkoloi, Po- Lapanga,Tehesil- Rengali Dist- Sambalpur,Odisha 768212
	(iv) Address of Facility(HCF)	JSW JFE Steel Limited, At- Thelkoloi, Po- Lapanga,Tehesil- Rengali Dist- Sambalpur,Odisha 768212
	(v)Tel. No, Fax. No	
	(vi) E-mail Id	s.saurabh@jsw.in
	(vii) URL of Website	
	(viii) GPS coordinates of HCF or CBMWTF	Lat 21.767729^0 Long 84.016452^0
	(ix)Ownership of HCF or CBMWTF	JSW JFE Steel Limited,
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	No.:6587/IND-IV-BMW-3851 dated 29.04.2026 Validity- 31.03.2028
	(xi). Status of Consents under Water Act and Air Act	No-3615/IND-I-CON-4650, date-19.03.2026 Valid up to:31.03.2028.
2	Type of Health Care Facility	Bedded Occupational Health Centre
	(i) Bedded Hospital	15
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	Not applicable
	(iii) License number and its date of expiry	No-23/2022 dated 19.11.2022 Validity Period-22.06.2027
3	Details of CBMWTF	Not applicable
	i)Number of healthcare facilities covered by CBMWTF	
	(ii) Nos of beds covered by CBMWTF	
	(iii)Installed treatment and disposal capacity of CBMWTF:	
	(iv) Quantity of biomedical waste	

<table>
<tr><td></td><td>treated or disposed by CBMWTF</td><td colspan="4"></td></tr>
<tr><td>4</td><td>Quantity of waste generated or disposed in Kg per annum (on monthly average basis)</td><td colspan="4">Yellow, Red, White, Blue Category, General Solid waste = 64.29 kg / month.</td></tr>
<tr><td>5</td><td>Details of the Storage, treatment, transportation, processing and Disposal Facility</td><td colspan="4">The waste generated is being handed over to a State Pollution Control Board (SPCB) authorized facility for final disposal. The waste is stored only at the designated location within the OHC premises, strictly in accordance with the prescribed guidelines.</td></tr>
<tr><td></td><td>(i) Details of the on-site storage facility</td><td colspan="4">Size – Not applicable</td></tr>
<tr><td></td><td></td><td colspan="4">Capacity- Not applicable</td></tr>
<tr><td></td><td></td><td colspan="4">Provision of on-site storage: (cold storage or any other provision)</td></tr>
<tr><td></td><td>(ii) Disposal facilities</td><td>Type of treatment equipment</td><td>No of units</td><td>Capacity kg/day</td><td>Quantity Treated or disposed in kg per annum</td></tr>
<tr><td></td><td></td><td>Incinerator
Plasma Pyrolysis
Autoclaves
Microwave
Hydroclave
Shredder
Needle tip cutter or destroyer
Sharps encapsulation or concrete pit
Deep burial pits:
Chemical disinfection:
Any other treatment equipment:</td><td colspan="3">Not applicable</td></tr>
<tr><td></td><td>(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.</td><td colspan="4">Not applicable</td></tr>
<tr><td></td><td>(iv) No of vehicles used for collection and transportation of biomedical waste</td><td colspan="4">One</td></tr>
<tr><td></td><td>(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum</td><td colspan="4"><table><tr><td></td><td>Quantity generated</td><td>Where disposed</td></tr><tr><td>Incineration</td><td colspan="2">Not applicable</td></tr><tr><td>Ash</td><td colspan="2"></td></tr><tr><td>ETP Sludge</td><td colspan="2"></td></tr></table></td></tr>
<tr><td></td><td>(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are</td><td colspan="4">Common Biomedical Waste Treatment Facility (CBWTF), M/s. Mediaid Marketing Services, Plot no</td></tr>
</table>

	disposed of	521 & 567Amasaranga,Bhashma,Sundargargh
	(vii) List of members HCF not bio-medical waste.	
6	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held duringthe reporting period	Yes
7	Details trainings conducted on BMW	
	(i) Number of trainings conducted on BMW Management	2
	(ii) Number of personnel trained	33
	(iii) Number of personnel trained at the time of induction	33
	(iv) Number of personnel not undergone any training so far	Nil
	(v) whether standard manual for Is training available?	Yes
	(vi) any other information	Not Applicable
8	Details of the accident occurred during the year	No
	(i) Number of Accidents occurred	
	(ii) Number of the persons affected	
	(iii) Remedial Action taken (Please attach details if any)	
	(iv) Any Fatality occurred, details.	
9	Are you meeting the standards for air Pollution from the incinerator. How many times in last year could not met the standards?	Not applicable
	Details of Continuous online emission monitoring systems installed	Not applicable
10	Liquid waste generated and treatment Methods in place. How many times you have not met the standards in a year?	Yes
11	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	Yes
12	Any other relevant information	

Certified that the above report is for the period from January'25 to December'25.

Authorized Signatory

Date: 25.06.2026
Place: Thelkoloi

Annexure- XXI

CORPORATE RESPONSIBILTY FOR ENVIRONMENT PROTECTION COMPLIANCE (CREP)

1. Coke Oven Plants

Action Points (I): To meet the parameters PLD (% leaking doors), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years (by December 2005). Industry will submit time bound action plan and PERT Chart along with the Bank Guarantee for the implementation of the same.

Compliance: PLD (% leaking doors), PLL (% leaking lids), PLO (% leaking off take) are being monitored on monthly basis and reports are within the notified standards.

Summary report for Oct 2025 to March 2026:

No. of Batteries	No. of Observations	Number of Times Standard Exceeded	PLD (%) Max	PLD (%) Min	PLO (%) Max	PLO (%) Min	Charging Emission (Sec.) Max	Charging Emission (Sec.) Min
Coke Oven-2 Recovery	6	Nil	3.3	2.44	0	0	35	30

2. Steel Melting Shop

Action Points (I) : Fugitive emissions - To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).

Compliance: Primary and secondary dust extraction systems have been installed to reduce fugitive dust emission from SMS for the period Oct 2025 to March 2026 is given below.

S.N.	Name of the Unit	PM 10 Concentration (in µg/m3)	Standard (in µg/m3)
1	SMS-II ZPF area	985-1538	3000
2	SMS-I EAF Area	839-1739	3000

3. Blast Furnace

Action Points (I) Direct injection of reducing agents -- by June 2013

Compliance : The blast furnace has been commissioned with direct injection of PCI up to 200 Kg/Ton of Hot metal. Summary report for the period from Oct 2025 to March 2026 is enclosed.

Sl. No.	Name of the Unit	PCI in Kg/Ton (Avg)
1	BF-I	159
2	BF-II	195

4. Solid Waste / Hazardous Waste Management

Action Points (I) Utilization of Steel Melting Shop (SMS) / Blast Furnace (BF) Slag as per the following schedule: By 2004 - 70%, By 2006 - 80% and By 2007 - 100%.

Compliance :

Most of the industrial solid waste is reused internally in different units. Like, Flue dust, GCP sludge, Bag filter dust of SMS & BF, coal dust, mill scale, lime fines are used in sinter making. DRI Char is being used along with coal in Power Plants.

The entire quantity of blast furnace slag is dispatched to cement manufacturers based on long term MoU with the cement manufacturer.

Summary report of BF slag and LD slag generation and utilization report for the period from Oct 2025 to March 2026 is enclosed.

Fly ash is also being supplied to :

- nearby fly ash brick manufacturing units, free of cost, for maximum utilization of ash.
- Cement plants through bulker.
- Construction of national highway (NH-55).
- Balance if any is being utilized in reclamation of low lying areas & abandoned stone quarries as per guidelines of CPCB/ OSPCB after grant of necessary consents.

The SMS slag (EAF, ZPF slag) is processed in material recovery plant (MRP) for separation of metallic from the non-magnetic part and sized for various applications. Some of the key applications of slag product are as below:

- recovered metallics used in steel making process as a scrap,
- recovered fines used in sinter making process for replacement of lime,
- non-mag utilization in cement manufacturing, road making, and hard sand applications.

Solid waste utilization percentage is given below.

S.N	Unit	Generation (in MT)	Utilisation (in MT)
1	BF Slag	647553	647553
2	SMS Slag	672170	672170

Fly ash : 100% , BF slag : 100% and SMS Slag: 100%

5. Hazardous Wastes

Action Points (I) : Charge of tar sludge / ETP sludge to Coke Oven by June 2003.

Compliance : The tar sludge/ETP sludge is being reused in coke oven along with coal for energy recovery.

Action Points (II): Inventorization of Hazardous Waste as per Hazardous waste (M&H) Rules, 1989 as amended in 2000 and implementation of the Rules by Dec.2003. (tar sludge, acid sludge, waste lubricating oil and type fuel falls in the category of Hazardous Waste)

Compliance: Inventorization of the Hazardous Waste has been done as per the Hazardous & Other Waste (Management and Transboundary Movement) Rules,2016. Accordingly, Hazardous Waste Authorisation has been taken from State Pollution Control Board Odisha, which is valid till 31.03.2028.

Summary report of tar sludge / BOD plant sludge generation and utilization report for the period from Oct 2025 to March 2026 is enclosed

S.N	Name of the Unit	Tar Sludge Generation (in MT)	Tar Sludge Utilization (in MT)	BOD Sludge Generation (in MT)	BOD Sludge Utilization (in MT)
1	Coke Oven	164	164	41	41

6. Water Conservation / Water Pollution

Action Points (I) To reduce specific water consumption to 5 m3/t for long products and 8 m3/t for flat products by December 2005.

Compliance: The following initiative have been undertaken to reduce the specific water consumption.

Reduction of freshwater consumption in closed circuit by increasing the Cycle of Concentration (COC) up to 6. Reuse of treated wastewater back in the process.

A comprehensive Zero Liquid Discharge (ZLD) system has been implemented to ensure that no industrial effluent is discharged outside the plant boundary.

Additional water conservation and reuse initiatives

- To strengthen ZLD implementation, the following measures have been adopted:
- Commissioning an additional Reverse Osmosis (RO) Plant at Coke Oven #2 to enhance recycling efficiency.
- Reduction of cooling tower blowdown through increasing Cycles of Concentration (COC >5).
- Utilization of STP treated water in cooling tower make-up.
- Use of wastewater treated for road cleaning, dust suppression, and horticulture.

- Reuse of treated wastewater for greenbelt irrigation and plantation maintenance.
- Use of treated wastewater for ash conditioning in ash silos, reducing freshwater consumption.

Through these initiatives, 100% recycling and reuse of treated wastewater is being ensured within the plant premises.

Specific water consumption: FY24 : 2.71 m3/tcs, FY25 : 2.56 m3/tcs, FY26 : 2.14 m3/tcs.

Action Points (II): To operate the CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. - by July 2003.

Compliance: The Phenolic effluents of both the Coke Ovens are being treated in BOD plant. The treated effluent is within the stipulated and reused in Coke & slag quenching and dust suppression.

Action Points (III) : Installation of Continuous stacks monitoring system & its calibration in major stacks and setting up of online ambient air quality monitoring stations by June 2005.

Compliance: 50 Nos. Continuous online stack monitoring system for PM (Continuous Emission Monitoring System - CEMS) and 14 Nos. Continuous online stack monitoring system for Gaseous parameter (SO2 & NOx) (Continuous Emission Monitoring System - CEMS). 6 Nos. Ambient Air Quality Monitoring system (CAAQMS) has also been commissioned. Real time data is being transferred to OSPCB server through RTDMS (IOT device). All analyzers are being calibrated half yearly.

7. Sponge Iron Plants

Action Points (I) : Inventorisation of sponge iron plants to be completed by SPCBs/CPCB by June 2003 and units will be asked to install proper air pollution control equipment's by December 2003 to control primary and secondary emissions.

Compliance : The following air pollution Control equipment's have been installed to control fugitive dust emission.

- 15 Nos. ESP attached WHRB, 01 no's to each DRI Kiln and 3 Nos. of Bag filter have installed at product handling area.
- 01 Mechanical Road sweeper, 01 Nos. Wheel Washing System at the exist of CPP is also in operation
- Seal plates installed across all conveyors to prevent material fall on the ground.
- Belt sway switches are installed to prevent the one-sided movement of conveyors and to stop the conveyor movement immediately in case of material spillage.
- Suitably designed nozzles installed at unloading point to prevent fugitive dust emission.

Annexure-XXII

Details of Online Monitoring System

Continuous Emission Monitoing System

CEMS No	LOCATION	LATITUDE	LONGITUDE	Data Connectivity
CEMS-1	WHRB-1	Lat 21°76502"N	Long 84°01800"E	PM
CEMS-2	WHRB-2	Lat 21°76451"N	Long 84°01821"E	PM
CEMS-3	WHRB-3	Lat 21°76258"N	Long 84°01895"E	PM
CEMS-4	WHRB-4	Lat 21°76233"N	Long 84°01917"E	PM
CEMS-5	WHRB-5	Lat 21°76547"N	Long 84°01841"E	PM
CEMS-6	WHRB-6	Lat 21°76624"N	Long 84°01806"E	PM
CEMS-7	WHRB-7	Lat 21°76699"N	Long 84°01919"E	PM
CEMS-8	WHRB-8	Lat 21°76848"N	Long 84°01856"E	PM
CEMS-9	WHRB-9	Lat 21°76782"N	Long 84°01801"E	PM
CEMS-10	WHRB-10	Lat 21°76713"N	Long 84°01776"E	PM
CEMS-11	WHRB-11&12	Lat 21°77037"N	Long 84°02164"E	PM
CEMS-12	DRI-DEDUSTING-1&2	Lat 21°76517"N	Long 84°02120"E	PM
CEMS-13	DRI-DEDUSTING-3&4	Lat 21°76311"N	Long 84°02212"E	PM
CEMS-14	DRI-DEDUSTING-5&6	Lat 21°76666"N	Long 84°0209"E	PM
CEMS-15	DRI-DEDUSTING-7&8	Lat 21°76804"N	Long 84°02119"E	PM
CEMS-16	DRI-DEDUSTING-9&10	Lat 21°76882"N	Long 84°02073"E	PM
CEMS-17	DRI-DEDUSTING-11&12	Lat 21°77287"N	Long 84°02085"E	PM
CEMS-18	CPP 3x130 Unit #1 (CFBC 1&2)	Lat 21°77003"N	Long 84°01973"E	PM,SO2,NOx,Hg
CEMS-19	CPP 3x130 Unit #2(CFBC 3 &4)	Lat 21°77088"N	Long 84°01928"E	PM,SO2,NOx,Hg
CEMS-20	CPP 3x130 Unit #3 CFBC - 5	Lat 21°771591"N	Long 84°018946"E	PM,SO2,NOx,Hg
CEMS-21	CPP 3x130 Unit #3 CFBC - 6	Lat 21°772407"N	Long 84°018489"E	PM,SO2,NOx,Hg
CEMS-22	CPP 60MW AFBC# 2	Lat 21°76433"N	Long 84°01992"E	PM,SO2,NOx,Hg
CEMS-23	CPP 40MW AFBC# 1	Lat 21°76395"N	Long 84°02000"E	PM,SO2,NOx,Hg
CEMS-24	SMS-1 FTP-1	Lat 21°759934"N	Long 84°017838"E	PM
CEMS-25	SMS-1 FTP-2	Lat 21°759132"N	Long 84°02018"E	PM
CEMS-26	SMS-1 FTP-3	Lat 21°755039"N	Long 84°019789"E	PM
CEMS-27	SMS-1 FTP-4	Lat 21°754783"N	Long 84°020102"E	PM
CEMS-28	SMS-2 FTP	Lat 21°753041"N	Long 84°022449"E	PM
CEMS-29	PELLET PLANT-PROCESS	Lat 21°752163"N	Long 84°030027"E	PM,SO2,NOx
CEMS-30	PELLET PLANT-DISCHARGING	Lat 21°753308"N	Long 84°029232"E	PM
CEMS-31	COKE OVEN-1 WHRB-1&2	Lat 21°75735"N	Long 84°02446"E	PM,SO2,NOx,CO
CEMS-32	COKE OVEN-1 WHRB-3&4	Lat 21°75518"N	Long 84°02515"E	PM,SO2,NOx,CO
CEMS-33	COKE OVEN-2 PROCESS	Lat 21°76476"N	Long 84°02524"E	PM,SO2,NOx,CO
CEMS-34	COKE OVEN-2-Dedusting	Lat 21°763959"N	Long 84°025854"E	PM
CEMS-35	BF-2 CAST HOUSE	Lat 21°761463"N	Long 84°020868"E	PM,SO2,NOX,CO
CEMS-36	BF-2 STOCK HOUSE	Lat 21°762154"N	Long 84°023878"E	PM
CEMS-37	BF-1 CAST HOUSE	Lat 21°758546"N	Long 84°020995"E	PM
CEMS-38	BF-1 GCP	Lat 21°758876"N	Long 84°021104"E	PM
CEMS-39	SP-1 Process (Charging)	Lat 21°75697"N	Long 84°021901"E	PM,SO2,Nox
CEMS-40	SP-1 Dedusting (Discharging)	Lat 21°755981"N	Long 84°023242"E	PM
CEMS-41	SP-2 Process (Charging)	Lat 21°759999"N	Long 84°026409"E	PM,SO2,Nox

CEMS-42	SP-2 Dedusting (Discharging)	Lat 21°760253"N	Long 84°026884"E	PM
CEMS-43	LCP-1	Lat 21°754412"N	Long 84°021644"E	PM
CEMS-44	LCP-2	Lat 21°754645"N	Long 84°021825"E	PM
CEMS-45	LCP-3	Lat 21°754771"N	Long 84°021925"E	PM
CEMS-46	LCP-4	Lat 21°754532"N	Long 84°02155"E	PM
CEMS-47	SMS-2 ZPF	Lat 21°749091"N	Long 84°023902"E	PM,SO2,Nox
CEMS-48	250TPH	Lat 21°76412"N	Long 84°02049"E	PM,SO2,Nox
CEMS-49	LCP-5	Lat 21°754832"N	Long 84°02395"E	PM
CEMS-50	LCP-6	Lat 21°759262"N	Long 84°02834"E	PM
CEMS-51	Cement_Mill_and_HAG_1MTPA	Lat 21°733023"N	Long 84°02053"E	PM

Continuous Ambient Air Quality Monitoring System (CAAQMS)

STATIONS NAME	LOCATION	LATITUDE	LONGITUDE	Data Connectivity
CAAQMS-1	Near Township	Lat 21°4631353"N	Long 84°128229"E	PM10,PM2.5,SO2,NOx, CO,O3
CAAQMS-2	Near Railway Gate	Lat 21°4453188"N	Long 84°159754"E	PM10,PM2.5,SO2,NOx,C O,O3
CAAQMS-3	Behind CRM	Lat 21°459744"N	Long 84°037362"E	PM10,PM2.5,SO2,NOx,C O,O3
CAAQMS-4	NEAR CRM ETP	Lat 21°4452213"N	Long 84°038455"E	PM10,PM2.5,SO2,NOx,C O,O3
CAAQMS-5	Near MAA Tarini Mandir	Lat 21°773802"N	Long 84°013734"E	PM10,PM2.5,SO2,NOx,C O,O3
CAAQMS-6	Near RO ZLD Coke Oven-II	Lat 21°766956"N	Long 84°025571"E	PM10,PM2.5,SO2,NOx,C O,O3
CAAQMS-7	Ceement_Plant	Lat 21°730215"N	Long 84°021956"E	PM10,PM2.5,SO2,NOX,C O

Continuous Effluent Quality Monitoring System (CEQMS)

SL NO	LOCATION	LATITUDE	LONGITUDE	Data Connectivity
1	WWTP-1	Lat 21°748388"N	Long 84°009672"E	COD,BOD,TSS,pH
2	WWTP-2	Lat 21°76386"N	Long 84°015384"E	COD,BOD,TSS,pH
3	WWTP-3	Lat 21°772276"N	Long 84°016475"E	COD,BOD,TSS,pH
4	CRM ETP	Lat 21°748455"N	Long 84°011592"E	COD,BOD,TSS,pH
5	BETP	Lat 21°767346"N	Long 84°023857"E	COD,BOD,TSS,pH
6	OUTLET-1 (Plaza Gate)	Lat 21°77384"N	Long 84°013795"E	Flow, flow_totalizer
7	OUTLET-2 (Near ARP)	Lat 21°756099"N	Long 84°01151"E	Flow, flow_totalizer

Annexure-XXIII

Greenbelt Report

A. Stipulated Condition (No. XXV) in 4.5 MPTA EC :

Three tire green belts shall be developed covering at least 33% of the total project area by Sept 2024 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 no per ha. Survival rate of the green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard shall be submitted to Regional Office of the MoEF&CC.

Compliance Status: Development of 33 % greenbelt is under progress in and around the plant complex, through plantation of native species in line with CPCB Guidelines. As of March,'26, approximately 33% of the total area (including both inside & outside) has been covered under greenbelt development. Survival rates of the developed is monitored on periodic basis and any causalities are being replenished through regular replantation to ensure sustainability and continuity of green cover.

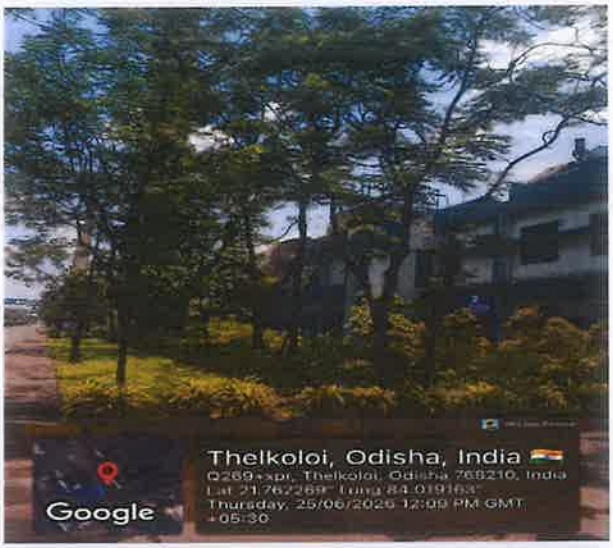
B. Green Belt Plan proposed for split application of existing EC 4.5 MTPA

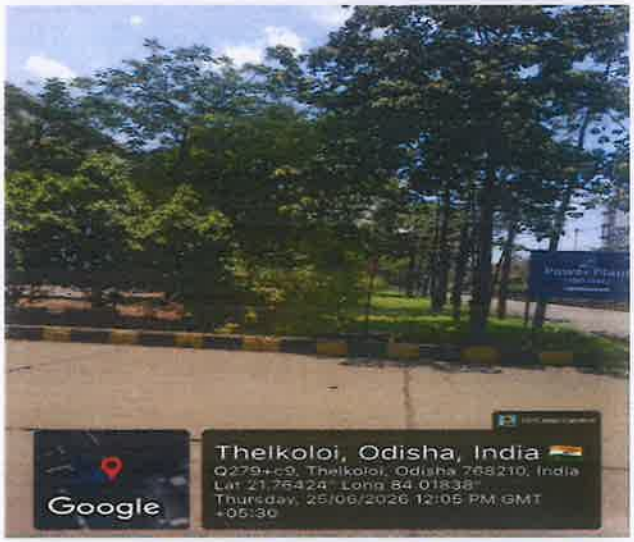
Financial Year	**Area Covered to be covered (in Acre)**	**No of sapling planted/to be planned**
Till FY 25 – 26 (21.5%)	**419**	**419795**
FY 26 - 27	80	80000
FY 27 - 28	80	80000
FY 28-29	63	63805
Total area for 33% compliance	**643 acres**	**643600**

30 indigenous species were planted namely (Acacia auriculiformis, Pisonia alba, Agele marmelous, Plumeria obtuse, Artocarpus heterophyllus, Plumeria pixie, Azadiracta indica, Pongamia pinnata, Bauhinia blackiana, Spathodea, Cassia siemia, Swietenia macrophylla, Conocarpus erectus, Syzygium aqueum, Cordia sebestena, Syzygium cumini, Couroupita guianensis, Tabebuea rosea, Dalbergia sisoo, Tabebuia pallida, Gmelina arborea, Tabebuia rosea, Lagerstroemia indica, Terminalia arjuna, Mimusops elengi, Terminalia catappa, Neolamarckia cadamba, Terminalia mantaly, Peltophorum pterocarpum, Thevetia peruviana). Glimpses of plantation photos are given below:

Geotagging Plantation Photo





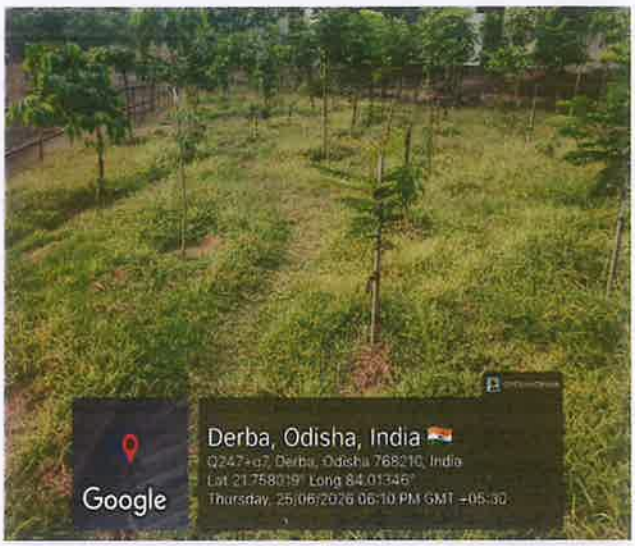






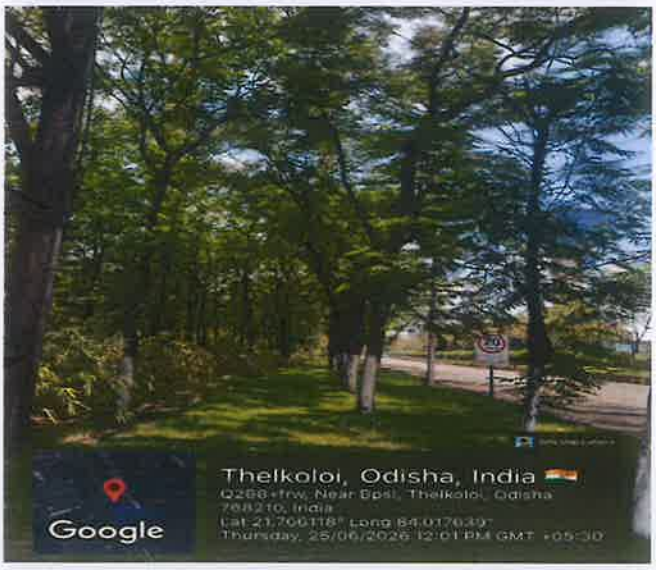



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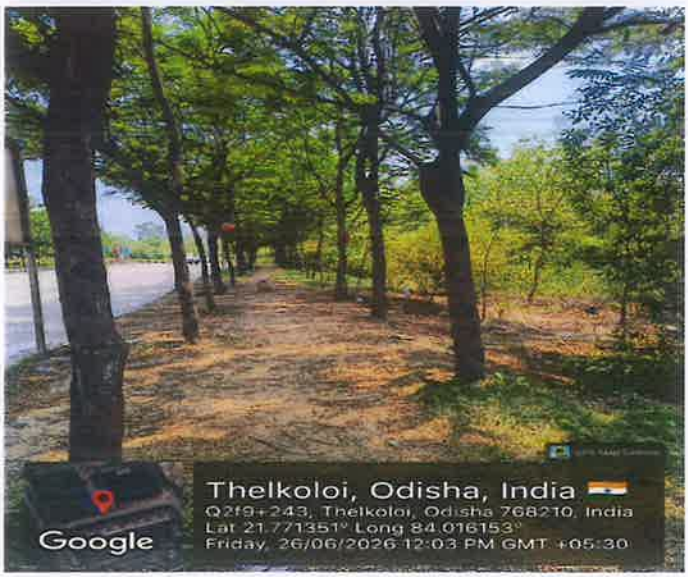

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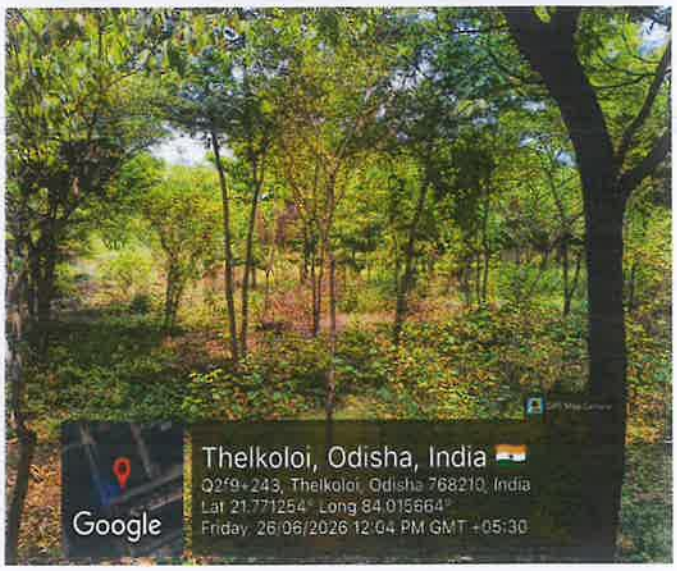

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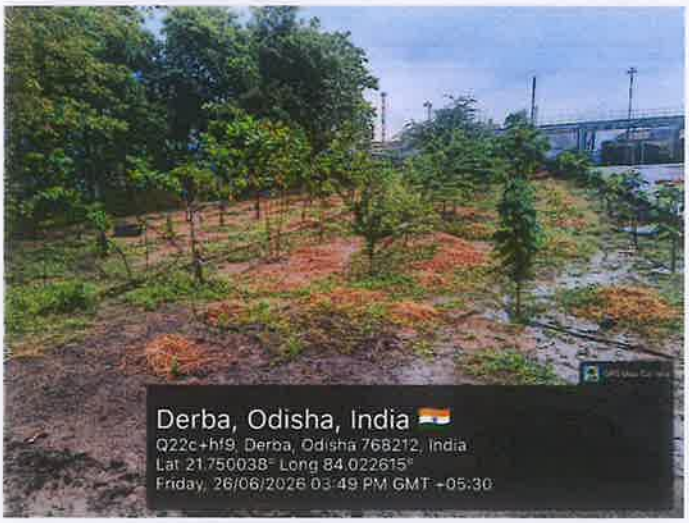

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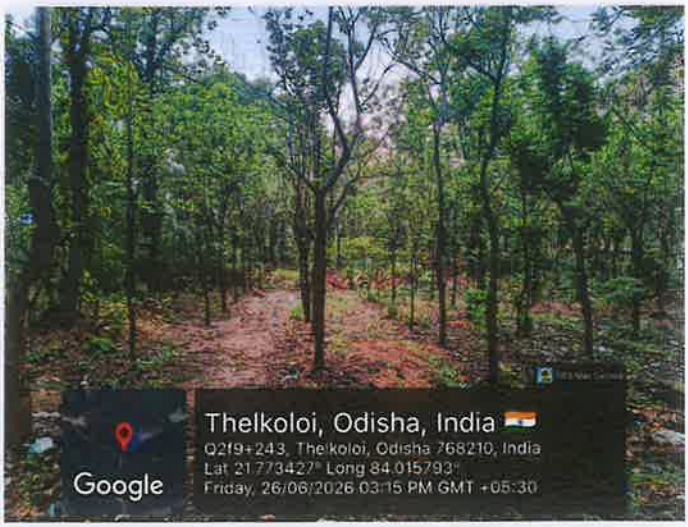

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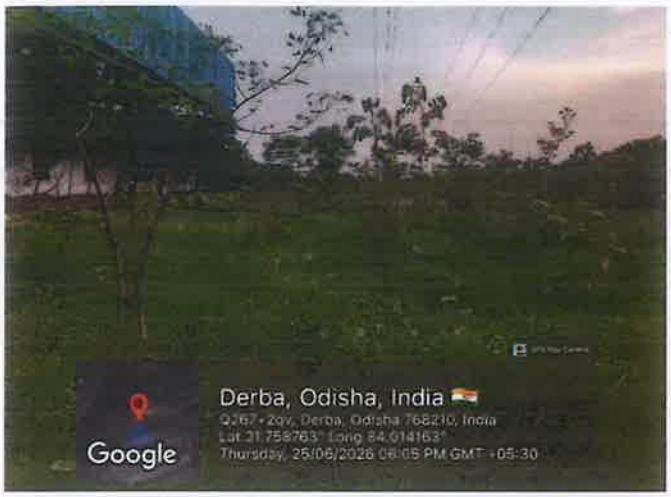

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Q2f9+243, Thelkoloi, Odisha 768210, India
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Friday, 26/06/2026 03:15 PM GMT +05:30
Google


Thelkoloi, Odisha, India
Jharsuguda N203, Thelkoloi, Odisha 768210, India
Lat 21.774539° Long 84.015808°
Friday, 26/06/2026 03:12 PM GMT +05:30
Google

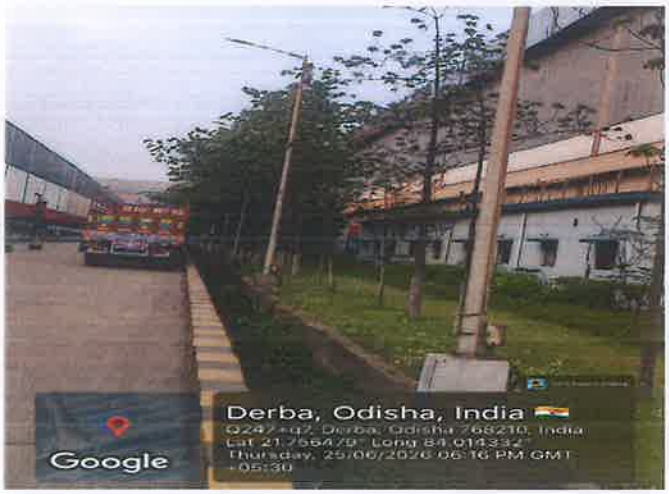

Thelkoloi, Odisha, India
Q2f9+243, Thelkoloi, Odisha 768210, India
Friday, 26/06/2026 03:01 PM GMT +05:30
Google


Derba, Odisha, India
Q22c+hf9, Derba, Odisha 768212, India
Lat 21.750038° Long 84.022615°
Friday, 26/06/2026 03:49 PM GMT +05:30


Thelkoloi, Odisha, India
Q2f9+243, Thelkoloi, Odisha 768210, India
Lat 21.773427° Long 84.015793°
Friday, 26/06/2026 03:15 PM GMT +05:30
Google


Derba, Odisha, India
Q267+2qv, Derba, Odisha 768210, India
Lat 21.758763° Long 84.014163°
Thursday, 25/06/2026 06:05 PM GMT +05:30
Google


Latitude: 21.759258
Longitude: 84.014414
Elevation: 209.9±10.2 m
Accuracy: 3.38 m
Time: 25-06-2026 18:01
Note: Gate no.-4


Derba, Odisha, India
Q247+q2, Derba, Odisha 768210, India
Lat 21.75647° Long 84.014332°
Thursday, 25/06/2026 06:16 PM GMT +05:30
Google


Thelkoloi, Odisha, India
Q256+mvq, SH10, Thelkoloi, Odisha 768210, India
Lat 21.758117° Long 84.01332°
Thursday, 25/06/2026 06:10 PM GMT +05:30
Google

Annexure-XXIV

Details of WWTP, ETP, STP and RO

No	Name of facility	Capacity in KLD
01	Waste water Treatment plant-1	18000
02	Waste water Treatment plant-2	18000
03	Waste water Treatment plant-2	18000
04	Effluent treatment Plant-CRM	1200
05	Biological Effluent Treatment Plant (BETP) Coke Oven-2	1800
06	Sewage Treatment Plant-1	700
07	Sewage Treatment Plant-2	900
08	Sewage Treatment Plant-3	900

Annexure-XXV

Bhushan Power & Steel Ltd.
Vill. : Thelkoloi, P.O. Lapanga - 768212
Teh : Rengali, Dist-Sambalpur (Odisha)
INDIA

T +91 (0)663 6636000
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F +91 (0)663 2562011 / 039
orissa@jswbpsl.in, www.jswbpsl.in
CIN : U27100DL1999PLC108350

Bhushan POWER & STEEL

Environment Policy

BPSL recognizes protecting and nurturing the environment as one of its primary responsibilities in its area of operations. We are committed to become a role model for the Steel Industry by going beyond compliance through -

- Integrating risks and opportunities relating to the environment in business strategies and decisions.
- Fulfilling all the legal and other environmental compliance obligations related to the context of the organization.
- Continuous evaluation of environmental impact and adoption of appropriate practices and technologies to mitigate adverse effects.
- Protecting the environment by prevention of pollution and achieving zero liquid discharge
- Efficient utilization of natural resources in our areas of operations and practicing reducing, recycling and reusing the wastes.
- Taking environmental conservation initiatives and preservation of bio-diversity around areas of our operation.
- Developing new grades of steel with lower life cycle impact on the environment.
- Developing awareness among our workforce, suppliers and community to create an eco-friendly society.
- Continual improvement of Environment Management System and enhancing environmental performance

Rev No: 00
Date: 20th August 2021

Anil Kumar Singh
Director & Occupier

Annexure- XXVII

Chronology of Environmental Clearance

1. 1.2 MTPA, vide file no. J-11011/228/2003-IA-II dtd. 12.05.2004
2. 1.2 MTPA to 2.2 MTPA, vide file no. J-11011/372/2006-IA-II (I) dtd. 29.03.2007
3. 2.2 MTPA to 2.8 MTPA, vide file no. J-11011/40/2009-IA-II (I) dtd. 02.04.2010
4. 2.8 to 3.0 MTPA, vide file no. J-11011/40/2009-IA-II (I) dtd. 17.10.2012 (amendment)
5. 3.0 MTPA to 5.5 MTPA, vide file no. J-11011/40/2009-IA-II (I) dtd. 06.12.2016
6. 5.5 MTPA to 4.5 MTPA vide file no. J-11011/40/2009-IA-II (I) dtd. 13.01.2023 (addendum EC)
7. 5.5 MTPA to 4.5 MTPA vide file no. J-11011/40/2009-IA-II (I) dtd. 13.01.2023 (Corrigendum EC)

Note on Acquisition & Name Change

Bhushan Power and Steel Limited (BPSL) has undergone successful resolution under Insolvency & Bankruptcy Code (IBC), 2016. Due to the financial mismanagement in BPSL by its erstwhile directors and promoters, in July, 2017, an application was filed under Section 7 of IBC Code, 2016 by the Punjab National Bank being CA No. 254 of 2019 titled "'Punjab National Bank v. Bhushan Power and Steel Ltd before the National Company Law Tribunal, Principal Bench, New Delhi ("NCLT") for initiating Corporate Insolvency Resolution Process (CIRP) against BPSL. Thereafter, NCLT vide its order dated 05.09.2019 approved the Resolution Plan submitted by M/s JSW Steel Limited under Section 31 (1) of the IBC, 2016. Subsequently, Ld. National Company Law Appellant Tribunal ("NCLAT"), vide its order dated 17.02.2020 passed in CA No. 957 of 2019 titled "JSW Steel Ltd. v. Mahendar Kumar Khandelwal approved the resolution plan submitted by M/s JSW Steel Limited for the acquisition of BPSL under the provisions of the IBC, 2016 and w.e.f. 26.03.2021, M/s JSW Steel Limited (CIN No. L27102MH1994PLC152925) took over the operations, management and control of BPSL (CIN: U27100DL1999PLC108350).

On 03 December 2025, Bhushan Power and Steel Limited and JSW Sambalpur Steel Limited (CIN: U25999MH2025PLC458190) entered into a business transfer agreement, under which Bhushan Power and Steel Limited have transferred its steel business undertaking as a going concern to JSW Sambalpur Steel Limited, on a slump sale basis with effect from 27 March 2026.

Subsequently pursuant to the approval of the relevant statutory and regulatory authorities, the name of the Company, JSW Sambalpur Steel Limited has been changed to JSW JFE Steel Limited (CIN: U25999MH2025PLC458190) with effect from 17 April 2026.

JSW JFE Steel Limited is a company incorporated under the provisions of the Companies Act, 2013, having its registered office at 5th Floor, JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai – 400051, Maharashtra, India.

Annexure-XXVIII

Environment Parameter Display Board Integrated Steel Plant



Environment Parameter Display Board-Cement Plant





Annexure-XXIX

PROJECT IMPLEMENTATION STATUS

Sl. No.	Facilities	Existing Capacity 4.5 MTPA	Implementation Status	Implementation status	Remarks
1	Coal Washery	1 x 1.0 MTPA + 1 x 3.5 MTPA **Total: 4.5 MTPA**	1 x 1.0 MTPA + 1 x 3.5 MTPA **Total: 4.5 MTPA**	Implemented	CTO obtained and in operation
2	DRI Kiln	12X500 TPD **Total: 2.0 MTPA**	12X500 TPD **Total: 2.0 MTPA**	Implemented	CTO obtained and in operation
3	Sinter Plant	SP-1: 1 x 105 m^2 SP-2: 1 x 450 m^2 **Total: 5.9 MTPA**	SP-1: 1 x 105 m^2 SP-2: 1 x 450 m^2 **Total: 5.9 MTPA**	Implemented	CTO obtained and in operation
4	Blast Furnace	1 X 1008 m^3 proposed Augmentation to 1 x 1120 m^3 + 1 x 2015 m^3	1 X 1008 m^3 proposed Augmentation to 1 x 1120 m^3 + 1 x 2015 m^3	1 X 1008 m^3 1 x 2015 m^3 Implemented	BF-1 is yet to Augment
5	Coke Oven	1 x 0.45 MTPA (Non-Recovery) 1 x 1.2 MTPA (Recovery) **Total: 1.65 MTPA**	1 x 0.45 MTPA (Non-Recovery) 1 x 1.2 MTPA (Recovery) **Total: 1.65 MTPA**	Implemented	CTO obtained and in operation
6	EAF/ Zero Power Furnace (ZPF) or SMS	SMS 1: EAF- 4 X 105 T SMS 2: EAF- 1 X 75 T + ZPF- 1 X 75 T	SMS 1: EAF- 4 X 105 T SMS 2: EAF- 1 X 75 T + ZPF- 1 X 75 T	Implemented	CTO obtained and in operation
7	Iron Ore Beneficiation Plant	1 x 1200 TPH **Total 6.5 MTPA**	1 x 1200 TPH **Total 6.5 MTPA**	Implemented	CTO obtained and in operation
8	Pellet Plant	1 X 4.0 MTPA	1 X 4.0 MTPA	Implemented	CTO obtained and in operation
9	Ladle Furnace	SMS-1: 6 x 100 T SMS-2: 2 x 75 T	SMS-1: 6 x 100 T SMS-2: 2 x 75 T	Implemented	CTO obtained and in operation
10	HMDP	SMS-1: 2X100 T	SMS-1: 2X100 T	Implemented	CTO obtained and in operation
11	VD/AOD	2 x 100 T + 2 x 75 T	2 x 100 T + 2 x 75 T	Implemented	CTO obtained and in operation
12	Billet caster	1 X 3 Strand + 2 X 4 Strand	1 X 3 Strand + 2 X 4 Strand	Implemented	CTO obtained and in operation
13	CSP	4 MTPA	4 MTPA	Implemented	CTO obtained and in operation
14	Thin Slab Caster	2 X 1 Strand	2 X 1 Strand	Implemented	CTO obtained and in operation
15	Cold Rolling Mill	2.5 MTPA	2.5 MTPA	Implemented	CTO obtained and in operation
16	Galvanizing/ Galvalume Line	1.3 MTPA	1.3 MTPA	Implemented	CTO obtained and in operation
17	Pipe and Tube Mill	0.8 MTPA	0.8 MTPA	Implemented	CTO obtained and in operation
18	Colour Coating line	0.7 MTPA	0.7 MTPA	Implemented	CTO obtained and in operation
19	Wire Rod Mill	0.6 MTPA	0.6 MTPA	Implemented	CTO obtained and

Sl. No.	Facilities	Existing Capacity 4.5 MTPA	Implementation Status	Implementation status	Remarks
	(WRM)				in operation
20	Bar & Rod Mill	0.6 MTPA	0.6 MTPA	Implemented	CTO obtained and in operation
21	Lime Plant	3 X 300 TPD + 2 X 600 TPD	3 X 300 TPD + 2 X 600 TPD	Implemented	CTO obtained and in operation
22	Dolo Plant	1 X 600 TPD	1 X 600 TPD	Implemented	CTO obtained and in operation
23	Oxygen Plant	3 X 200 TPD (VPSA) 1 X 400 TPD 1 X 660 TPD 1 X 1000 TPD	3 X 200 TPD (VPSA) 1 X 400 TPD 1 X 660 TPD 1 X 1000 TPD	Implemented	CTO obtained and in operation
24	Captive Power plant	(Coal fired, gas & WHRB) {3 X 130 MW (CFBC - Coal & WHRB of DRI 5-12)} + {40 MW AFBC & WHRB of DRI 1-4)} + {60 MW AFBC & WHRB of DRI 1-4)} + {16 MW (WHRB of NR coke oven) + {40 MW 250 TPH Process steam Boiler Coal/Gas based) **Total 546 MW**	(Coal fired, gas & WHRB) {3 X 130 MW (CFBC - Coal & WHRB of DRI 5-12)} + {40 MW AFBC & WHRB of DRI 1-4)} + {60 MW AFBC & WHRB of DRI 1-4)} + {16 MW (WHRB of NR coke oven) + {40 MW 250 TPH Process steam Boiler Coal/Gas based) **Total 546 MW**	506 implemented 250 CFBC boiler Installed (equivalent to 40 MW)	CTO obtained 506 and 250 TPH boiler
25	Cement Plant (Slag grinding & binding)	2 MTPA	2 MTPA	1 MTPA implemented	1 MTPA yet to install
26	Slag Processing unit	300 TPH + 150 TPH	300 TPH + 150 TPH	300 TPH Implemented 150 TPH is under implementation	
27	Iron Ore Crusher for Quality Improvement	1 x 350 TPH	1 x 350 TPH	Under implementation	

Annexure-XXXI

AIR POLLUTION CONTROL EQUIPMENT DETAILS

S.N	Name Of the Unit	Pollution Control System	Capacity in (NM3/hr)	Stack height in mtr
DRI Plant				
1	DRI/WHRB-1	Electrostatic Precipitator	210000	76
2	DRI/WHRB-2	Electrostatic Precipitator	210000	76
3	DRI/WHRB-3	Electrostatic Precipitator	210000	76
4	DRI/WHRB-4	Electrostatic Precipitator	210000	76
5	DRI/WHRB-5	Electrostatic Precipitator	210000	76
6	DRI/WHRB-6	Electrostatic Precipitator	210000	76
7	DRI/WHRB-7	Electrostatic Precipitator	210000	76
8	DRI/WHRB-8	Electrostatic Precipitator	210000	76
9	DRI/WHRB-9	Electrostatic Precipitator	210000	76
10	DRI/WHRB-10	Electrostatic Precipitator	210000	76
11	DRI/WHRB-11	Electrostatic Precipitator	210000	76
12	DRI/WHRB-12	Electrostatic Precipitator	210000	76
13	DRI Dedusting-5&6	Electrostatic Precipitator	350000	45
14	DRI Dedusting 7&8	Electrostatic Precipitator	350000	45
15	DRI De dusting 9&10	Electrostatic Precipitator	350000	45
16	DRI De dusting 1&2	Bag filter	350000	45
17	DRI De dusting 3&4	Bag filter	350000	45
18	DRI De dusting 11&12	Bag filter	350000	45
Captive Power Plant				
19	CPP 40 MW AFBC-1	Electrostatic Precipitator	143000	75
20	CPP 60 MW AFBC-2	Electrostatic Precipitator	286000	95
21	CPP 3x130 MW Unit-1 CFBC-1	Electrostatic Precipitator with hybrid Bag filter	650000	120
22	CPP 3x130 MW Unit-1 CFBC-2	Electrostatic Precipitator	650000	120
23	CPP 3x130 MW Unit-2 CFBC-3	Electrostatic Precipitator	650000	120
24	CPP 3x130 MW Unit-2 CFBC-4	Electrostatic Precipitator	650000	120
25	CPP 3x130 MW Unit-3 CFBC-5	Electrostatic Precipitator	650000	120
26	CPP 3x130 MW Unit-3 CFBC-6	Electrostatic Precipitator	650000	120
27	250 TPH CFBC Boiler	Electrostatic Precipitator	576792	105
Blast Furnace-1				
28	BF-Dry gas cleaning	Bag House, Gas Cleaning Plant	180000	30
29	BF-Cast house	Dust catcher Bag filter	220000	35
Blast Furnace-2				
30	BF-Stock House	Bag filter	610000	45
31	BF-Cast House	Bag filter	850000	45
Sinter Plant-1				
32	Sinter Plant Charging	Electrostatic Precipitator	570000	60
S.N	Name Of the Unit	Pollution Control System	Capacity in (NM3/hr)	Stack height in mtr
33	Sinter plant Discharging	Electrostatic Precipitator	450000	40
34	Sinter plant Dedusting	Bag Filter	190000	40
Sinter plant -2				
35	Sinter plant Process	Electrostatic Precipitator	700000	120
36	Sinter plant Dedusting	Electrostatic Precipitator	600000	60
Coke Oven -2				

37	Process Stack	-	150000	144
38	Pushing Emission Control System	Bag Filter	504000	45
39	DE System for Pre Crusher Building	Bag Filter	28000	30
40	DE system for blending bin Building	Bag Filter	40000	30
41	DE for Coal crushing building	Bag Filter	25000	30
42	DE System for Coal mixing building	Bag Filter	3500	30
43	DE for Coke Treatment Building	Bag Filter	50000	30
Steel Melting Shop-1				
44	EAF& LRF -1(FTP-1)	Fume Treatment Plant-1 (Bag House)	1395000	60
45	EAF&LRF-2(FTP-2)	Fume Treatment Plant-1 (Bag House)	1431000	50
46	EAF&LRF-(FTP-3)	Fume Treatment Plant-3(Bag House)	1431000	50
47	EAF&LRF-(FTP-4)	Fume Treatment Plant-4(Bag House)	1395000	60
48	Secondary Emission of EAF I & II (FTP-5)	Fume Treatment Plant-4(Bag House)	1500000	50
49	Secondary Emission of EAF III & IV (FTP-6)	Fume Treatment Plant-4(Bag House)	1500000	50
Steel Melting Shop-2				
50	SMS-2 EAF & LF	Fumes Treatment Plant(Bag House)	1364000	50
51	SMS-2 ZPF & LF	Fumes Treatment Plant(Bag House)	1000000	60
RMHS				
52	Crushing & Screening areas of RMPP-1 Ore circuit	09 nos. of Bag Filter & Dry Fog System	50000	30
Lime & Dolo Plant				
53	Lime Plant- Kiln-1	Bag Filter	50000	50
54	Lime Plant- Kiln -2	Bag Filter	50000	50
55	Kiln -3	Bag Filter	50000	50
56	Lime Plant- Kiln - 4	Bag filter	120000	49
57	Lime Plant- Kiln -5	Bag filter	120000	40
58	Lime Plant- Kiln -6	Bag Filter	120000	49
59	De dusting -1	Bag filter	27800	35
60	Dedusting -2	Bag Filter	58400	35
S.N	Name Of the Unit	Pollution Control System	Capacity in (NM3/hr)	Stack height in mtr
61	Dedusting-3	Bag filter	46400	38
62	Dedusting-4	Bag filter	8000	35
CRM Complex				
63	Acid Regeneration Plant-1	Wet Scrubbers	20000	34
64	Acid Regeneration Plant-2	Wet Scrubbers	20000	34
65	Acid Regeneration Plant-3	Wet Scrubbers	20000	34
66	Acid Regeneration Plant-4	Wet Scrubbers	20000	34

67	Acid Regeneration Plant-5	Wet Scrubbers	25000	35
68	Pickling Plant-I(stack-I)	Wet Scrubbers	15716	32
69	Pickling Plant-I(Stack-II)	Wet Scrubbers	15716	32
70	Pickling Plant-II(Stack-I)	Wet Scrubbers	15716	32
71	Pickling Plant-II(Stack-II)	Wet Scrubbers	15716	32
Pellet Plant				
72	Wind box & hood Exhaust	Electrostatic Precipitator	1395000	85
73	De dusting unit	Electrostatic Precipitator	240000	50

Annexure-XXVI

NEWS PAPER PUBLICATION

Expansion 1.2 MTPA to 2.2 MTPA
THE BHARAT DARSAN
Date : 12-07-2007

ବିଜ୍ଞାପନ

ଏତଦ୍ଦ୍ୱାରା ଏ ସମ୍ପର୍କିତ ସମସ୍ତଙ୍କ ଅବଗତି ନିମନ୍ତେ ଜଣାର ଦିଆଯାଉଅଛି ଯି ମେସର୍ସ ଭୂଷଣ ପାୱାର ଏବଂ ଷ୍ଟିଲ ଲିମିଟେଡ୍ ଓଡ଼ିଶାର ସମ୍ବଲପୁର ଜିଲ୍ଲାର ରେଙ୍ଗାଲି ତହସିଲ ଅଧିନରେ ୧.୨ ନିୟୁତ ଟନ୍‌ରୁ ୨.୨ ନିୟୁତ ଟନ୍ କ୍ଷମତା ବିଶିଷ୍ଟ ଏକ ସମନ୍ୱିତ ଉତ୍ପାତ କାରଖାନା ସ୍ଥାପନ କରିବା ପାଇଁ ଭାରତ ସରକାରଙ୍କର ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରାଳୟ ଲେଖା ନଂ. J-11011/372/2006-I.A. II (I) ତାରିଖ ମାର୍ଚ୍ଚ ୨୯, ୨୦୦୭ ଦ୍ୱାରା ମଞ୍ଜୁରୀପ୍ରାପ୍ତି କରି ଥଛନ୍ତି । ଏ ସମ୍ବନ୍ଧୀୟ ନଥିପତ୍ର ଏବଂ ବିଷଦ ବିବରଣୀ ଓଡ଼ିଶା ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଭାରତ ସରକାରଙ୍କ ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରଣାଳୟ ୱେବ୍ ସାଇଟ୍ http://envfor.nic.in ଏବଂ ନିମ୍ନ ଠିକଣାରେ ଉପଲବ୍ଧ ହୋଇ ପାରିବ ।

ଏହି ବିଜ୍ଞାପନ ସର୍ବସାଧାରଣଙ୍କ ଗୋଚରାର୍ଥେ ପ୍ରକାଶିତ ହେଉଅଛି ।

ଭାଇସ୍ ପ୍ରେସିଡେଣ୍ଟ
ଭୂଷଣ ପାୱାର ଏଣ୍ଡ୍ ଷ୍ଟିଲ ଲିମିଟେଡ୍
ଠେଲକୋଲି, ସମ୍ବଲପୁର

Expansion 2.2 MTPA to 2.8 MTPA

THE INDIAN ERA 7
Date: 07-04-2010

NOTICE

It has been brought to the notices of all concern that M/s. Bhushan Power & Steel Limited has been accorded permission by the ministry of Environment & Forest, Government of India for establishment of enhanced capacity from 2.2 mtpa to 2.8 mtpa integrated steel product at Rengali in Sambalpur district vide their letter No. J-11011/40/2009-IA II (I) dtd. 2nd April, 2010. Copies of documents are available with State Pollution Control Board, Orissa and can be seen at http://www.envfor.nic.in of the Ministry of Environment & Forest.

This notice has been published for the knowledge of all concerned.

Vice President
Bhushan Power & Steel Ltd.
Thelkoloi, Sambalpur, Orissa

THE AGNISHIKHA
Date: 08-04-2010

ବିଜ୍ଞାପନ

ଏତଦ୍ଦ୍ୱାରା ଏ ସମ୍ପର୍କିତ ସମସ୍ତଙ୍କ ଅବଗତି ନିମନ୍ତେ ଜଣାର ଦିଆଯାଉଅଛି ଯି ମେସର୍ସ ଭୂଷଣ ପାୱାର ଏବଂ ଷ୍ଟିଲ୍ ଲିମିଟେଡ୍, ଓଡ଼ିଶାର ସମ୍ବଲପୁର ଜିଲ୍ଲାର ରେଙ୍ଗାଲି ତହସିଲ ଅଧିନରେ ୨.୨ ନିୟୁତ ଟନ୍‌ରୁ ୨.୮ ନିୟୁତ ଟନ୍ କ୍ଷମତା ବିଶିଷ୍ଟ ଏକ ସମନ୍ୱିତ ଉତ୍ପାତ କାରଖାନା ସ୍ଥାପନ କରିବା ପାଇଁ ଭାରତ ସରକାରଙ୍କର ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରାଳୟ ଲେଖା ନଂ J-11011/40/2009-I.A. II (I) ତାରିଖ ୦୨.୦୪.୨୦୧୦ ଦ୍ୱାରା ମଞ୍ଜୁରୀପ୍ରାପ୍ତ କରି ଥଛନ୍ତି । ଏ ସମ୍ବନ୍ଧୀୟ ନଥିପତ୍ର ଏବଂ ବିଷଦ ବିବରଣୀ ଓଡ଼ିଶା ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଭାରତ ସରକାରଙ୍କ ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରଣାଳୟ ୱେବ୍ ସାଇଟ୍ http://envfor.nic.in ଏବଂ ନିମ୍ନ ଠିକଣାରେ ଉପଲବ୍ଧ ହୋଇପାରିବ ।

ଏହି ବିଜ୍ଞାପନ ସର୍ବସାଧାରଣଙ୍କ ଗୋଚରାର୍ଥେ ପ୍ରକାଶିତ ହେଉଅଛି ।

ଭାଇସ୍ ପ୍ରେସିଡେଣ୍ଟ
ଭୂଷଣ ପାୱାର ଏବଂ ଷ୍ଟିଲ୍ ଲିମିଟେଡ୍
ଠେଲକୋଲି, ସମ୍ବଲପୁର

Expansion 2.8 MTPA to 3.0 MTPA

THE INDIAN ERA 7
Date: 21-10-2012

NOTICE

It has been brought to the notices of all concern that M/s Bhushan Power & Steel Ltd. has been accorded permission by the Ministry of Environment & Forest. Government of India for establishment of enhance capacity from 2.8 mtpa to 3.00 mtpa integrated steel project at Rengali in Sambalpur district vide their letter No. J-11011/40/2009-IA- II(I) dtd. 17th October, 2012. Copies of document are available with State Pollution Control Board, Odisha and can be seen at http://www.envfor.nic.in of the Ministry of Environment & Forest.

Vice President
Bhushan Power & Steel Ltd.
Tehikoloi, Sambalpur, Odisha

THE AGNISHIKHA
Date: 20-10-2012

ବିଜ୍ଞାପନ

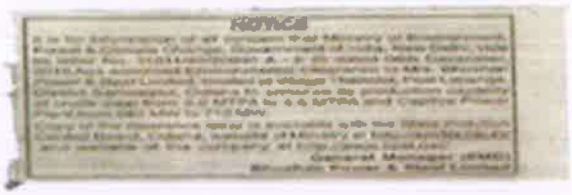
ଏତଦ୍ଦ୍ୱାରା ଏ ସମ୍ପର୍କିତ ସମସ୍ତଙ୍କ ଅବଗତି ନିମନ୍ତେ ଜଣାଯାଉଅଛି ଯି ମେସର୍ଷ ଭୂଷଣ ପାୱାର ଏବଂ ଷ୍ଟିଲ୍ ଲିମିଟେଡ୍ ଓଡ଼ିଶାର ସମ୍ବଲପୁର ଜିଲ୍ଲାର ରେଙ୍ଗାଲି ତହସିଲ ଅଧୀନରେ ୨.୮ ନିୟୁତ ଟନ୍‌ରୁ ୩.୦ ନିୟୁତ ଟନ୍ କ୍ଷମତା ବିଶିଷ୍ଟ ଏକ ସମନ୍ୱିତ ଇସ୍ପାତ କାରଖାନା ସ୍ଥାପିତ କରିବା ପାଇଁ ଭାରତ ସରକାରଙ୍କର ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରଣାଳୟ ରେଖା ନଂ: **J-11011/40/2009-I.A. II (I)** ତାରିଖ ୧୭.୧୦.୨୦୧୨ ଦ୍ୱାରା ମଞ୍ଜୁରୀପ୍ରାପ୍ତ କରି ଅଛନ୍ତି । ଏ ସମ୍ବନ୍ଧୀୟ ନଥିପତ୍ର ଏବଂ ବିସ୍ତୃତ ବିବରଣୀ ଓଡ଼ିଶା ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଭାରତ୍ ସରକାରଙ୍କ ପରିବେଶ ଏବଂ ଜଙ୍ଗଲ ମନ୍ତ୍ରଣାଳୟ ୱେବ୍‌ସାଇଟ୍ **http:/www.envfor.nic.in** ଏବଂ ନିମ୍ନ ଠିକଣାରେ ଉପଲବ୍ଧ ହୋଇପାରିବ ।

ଏହି ବିଜ୍ଞାପନ ସର୍ବସାଧାରଣଙ୍କ ସୋଚନାର୍ଥେ ପ୍ରକାଶିତ ହେଉଅଛି ।

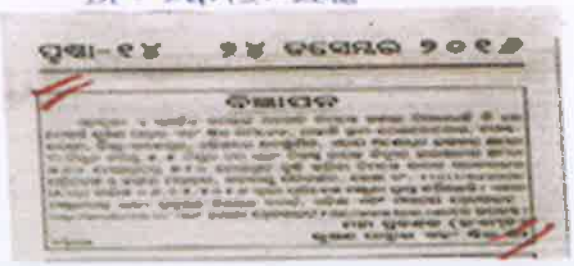
ଭାରତ୍ ପ୍ରେସିଡେଣ୍ଟ
ଭୂଷଣ ପାୱାର ଏବଂ ଷ୍ଟିଲ୍ ଲିମିଟେଡ୍
ଟେହକୋଲି, ସମ୍ବଲପୁର

Expansion 3.0 MTPA to 5.5 MTPA

INDIAN EXPRESS
Dt. 24.12.2016



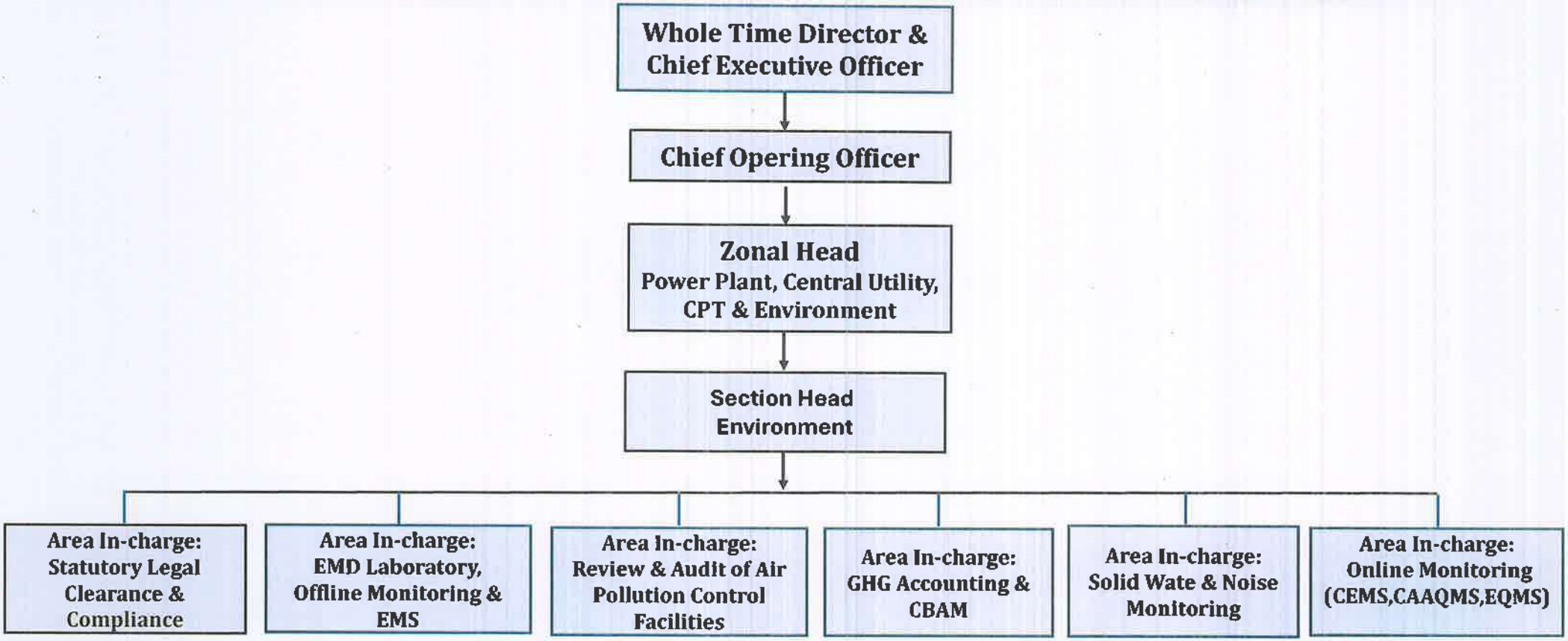
Odia daily - SAMAJ
Dt. 24.12.2016



Annexure – XXIII

Bhushan POWER & STEEL

Organization Chart – Environment Management Department



Bhushan POWER & STEEL

Organization Chart – Environment & Safety Department (Cement Business)

