

SIX MONTHLY COMPLIANCE REPORTS OF ENVIRONMENT CLEARANCE CONDITIONS

Changes in Plant configuration for proposed expansion of Integrated Steel Plant from 5 to 10 MTPA by M/s JSW Steel Limited at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra [No J-11011/76/2013-IA-II(I) dated 16/06/2020].

The production facilities after the expansion are given below:

S. No	Unit Name	Existing facility	EC accorded for Facilities under 5 to 10 MTPA vide EC dtd 25.08.2015	Total capacities at 10 MTPA as per change in EC 2020	Compliance Status
1.	DR1 (Gas based Mega Module)	2.0 MTPA (by augmentation)	2.0 MTPA	4.0 MTPA	- 2 MTPA plant commissioned and in operation - 2 MTPA plant under technology finalization.
2.	Pellet Plant	4.0 MTPA	9.0 MTPA	13.0 MTPA	- commissioned and in operation.
3.	Coke Ovens including By-product plant	2.0 MTPA	2.5 MTPA	4.5 MTPA	3 MTPA Coke Oven Plant commissioned and in operation by JSW Steel Ltd. 1 MTPA Coke Oven Plant is in the name of M/s. ARCL Ltd vide EC No F No J-11011/286/2007-IA-II(I) dated 12/01/2009.
4.	Sinter Plant	2.8+3.2 MTPA	4.0 MTPA	10.0 MTPA	2.8 MTPA +2.5 MTPA (<i>i.e.</i> 5.3 MTPA) operational, balance capacity to be implemented.
5.	Blast Furnace including Pig casting	3.6 MTPA (by augmentation)	4.5 MTPA	8.1 MTPA	8.0 MTPA Commissioned and in operation

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6.	SMS (CONARC)	5.2 MTPA (by augmentation)	--	5.2 MTPA	5.0 MTPA Commissioned and in operation.
7.	SMS -BOF	--	6.0 MTPA	6.0 MTPA	6.0 MTPA Commissioned and in operation
8.	Ladle Furnace (LF)	2x200t +205t	2X300t	2x200t +205t 2X300t	Commissioned and in operation
9.	VD/VOD & RH-TP	1x200t+1x205t	2x300t	1x200t +1x205t 2x300t	- 1x200t+1x205t Commissioned in operation - 2x300t in operation
10.	CSP (HRC Coil) Thin Caster-cum-Hot Strip Finishing Train	3.5 MTPA (By Augmenting)	-	3.5 MTPA	Commissioned and in operation
11.	Conventional Slab Caster	2x1 strands (3.68 MTPA)	2x2 strands (5.73 MTPA)	Total 6 strands (9.41 MTPA)	Slab Caster (Continuous and Conventional) Commissioned and in operation
12.	Billet Caster	-	1x6 Strands	6 strands (1.5 MTPA)	Commissioned and in operation
13.	Plate Mill	1.5 MTPA	-	1.5 MTPA	To be implemented
14.	CRM (Hot Rolled Skin Pass + Cold Rolled Full Hard Coil + Hot Rolled Pickled & Oiled Coil)	1.0 MTPA	1.5 MTPA	2.5 MTPA	To be implemented

S. No	Unit Name	Existing facility	EC accorded for Facilities under 5 to 10 MTPA vide EC dtd 25.08.2015	Total capacities at 10 MTPA as per change in EC 2020	Compliance Status
15.	Galvanizing Line (Cold Rolled Steel Strips, Hot Dip Zinc Coated Full Hard)	0.6 MTPA	-	0.6 MTPA	To be implemented
16.	Electrical Steel CRGO line	0.4 MTPA	-	0.4 MTPA	To be implemented
17.	Tin Plate Mill	0.4 MTPA	-	0.4 MTPA	To be implemented
18.	Colour Coating Plant	0.5 MTPA	-	0.5 MTPA	To be implemented
19.	Lime/Dolo Plant	1800 TPD	1800 TPD	3600 TPD	Commissioned and in operation
20.	Oxygen Plant	4100 TPD	3500 TPD	7600 TPD	6660 TPD Capacity Commissioned
21.	Hot Rolling Mill with shearing & slitting line	-	5.0 MTPA	5.0 MTPA	Commissioned and in operation
22.	Bar Mill	-	1.4 MTPA	1.4 MTPA	Commissioned and in operation
23.	Slag & Clinker Grinding Unit	-	10 MTPA	10 MTPA	Implemented, EC transferred to JSW Cement Ltd.

S. No	Unit Name	Existing facility	EC accorded for Facilities under 5 to 10 MTPA vide EC dtd 25.08.2015	Total capacities at 10 MTPA as per change in EC 2020	Compliance Status
24.	Captive Power Plant	300 MW	300 MW	600 MW (based on surplus gases of BF & Coke Oven)+RLNG	Commissioned and in operation
25.	Township	-	150 acres	150 acres	To be implemented.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
A) Specific Conditions		
i	PP Shall develop green belt in an area of 16% of project area within the project site and 33% of Project area within the 10 km of study area.”	<p>Green Belt within Plant:</p> <p>Presently, 13% green belt is developed over 18.00 ha land within the plant premises with 2,11,388 nos of trees. Balance 18.42 Ha (3%) green belt area is to being developed with 46,200 nos of trees. Green belt developed with tree density 2500 trees/hectare and local species. (Photographs of Green Belt Attached as Annexure-1)</p> <p>Green Belt Outside Plant in 10 Km area:</p> <p>Green belt outside the plant premises has been developed over 203.00 Ha i.e. 33 % as per EC. Green belt outside the plant premises is developed in forest land in proximity of the plant area in consultation with local forest department over 51 Ha land and Mangrove Plantation over 152.00 Ha.</p> <p>Hence, Condition is complied.</p>

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ii	The CER activities shall be implemented in accordance with this Ministry's OM vide F.No.22 -65/2017-IAIII dated 1 st May 2018 within the Project implementation period.	<p>The project proponent is carrying out CSR activities in various sectors and in and around the surrounding villages and a time bound action plan for various CSR activities have been submitted to MoEF&CC as per EAC recommendation of 2.5% of project cost.</p> <p>The project proponent has spent an amount of Rs. 118.86 Crores on CER Activities.</p> <p>The project proponent has spent the above amount on Construction of Multi-Speciality Hospital, Construction of Roads outside the plant premises, and expenditure on Tree plantation in nearby villages (outside the Plant). Details of the CER is attached Annexure-2.</p> <p>Hence, Condition is complied.</p>
iii	Treated domestic wastewater generated from township shall be reused and recycled.	<p>When construction of Township will be done, Domestic Wastewater from Plant will be treated in STP and reused in gardening.</p> <p>Hence, Condition shall be complied.</p>
iv	The Project Proponent Shall achieve Zero Liquid Discharge (ZLD) at the end completion of all the facilities. In the meantime the treated wastewater shall be discharged into sea after obtaining necessary permission /clearance from the concerned regulatory authority.	<p>Zero Liquid Discharge (ZLD) will be achieved at the end completion of all the facilities by Dec 2025.</p> <p>Meanwhile, excess treated effluent conforming to standards is being discharged to Amba River Estuary as per the permission obtained from MoEF&CC – CRZ Division vide letter No F.No.11-7/2023-IA. III dated 5th April 2023, the permission is granted for discharge of treated water 615 M3/Hr.</p> <p>Hence, Condition is complied.</p>
B) General Conditions		
I. Statutory Compliance:		

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i	The Project Proponent shall obtain Consent to Establish /Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act.1974 from the concerned State Pollution Control Board / Committee.	Copies of Consent to Operate obtained from MPCB for all plants. Hence, condition is complied.
ii	The Project proponent Shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water /from the competent authority concerned in case of drawl of surface water required for the project.	Water supply to the project is from Irrigation Department, Raigad, GOM. Agreement is made between JSW Steel Ltd and Irrigation Department, Raigad, Copy of Agreement enclosed as Annexure 3 Hence, condition is complied.
iii	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time	Authorization under the Hazardous and other Waste Management Rules, 2016 is granted by MPCB as a part of Combined Consent and Authorization document. Hence, condition is complied.
II. Air quality monitoring and preservation		
i	The Project Proponent Shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel) ; G.S.R 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time ; S.O 3305 (E) dated 7 th 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	24x7 continuous emission monitoring system (CEMS) is provided at process stacks as per guidelines of CPCB and MPCB consent requirement. Screenshot of Connectivity of CEMS is enclosed as Annexure 4 Calibration of the CEMS is done on by the external agency on regular basis Hence, condition is complied.

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ii	The Project Proponent Shall monitor fugitive emission in the plant premise at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Fugitive Dust Monitoring is undertaken every month and the analysis report is attached in Annexure 5. Hence, condition is complied.
iii	The Project Proponent Shall install system to carryout Continuous Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollution released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x emissions) Within and outside the Plant area at least at four locations (one within and three outside the plant area at an angel of 120° each) covering upwind and downwind directions.	CAAQMS installed at five locations in consultation with MPCB. All these stations are connected to URL of MPCB & CPCB & data is being transmitted online on real time basis for PM _{2.5} , PM ₁₀ , SO ₂ , NO _x & CO. Screenshot of Connectivity of CAAQMS to MPCB is enclosed as Annexure-7 . Hence, condition is complied.
iv	The cameras shall be installed at suitable location for 24x7 recording of battery emission on the both sides of coke oven batteries and videos shall be preserved for at least one – month recording.	Camera installed at the Coke Oven battery with facility of storage of data. Hence, condition is complied.
v	Sampling facility at process stacks and at quenching towers shall be provide as per CPCB guidelines for manual monitoring of emissions.	Sampling facility at process stacks and at quenching towers provide as per CPCB guidelines. The access for monitoring on stack is provided through spiral ladder as well as man lifter machine. Hence, condition is complied.
vi	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and result of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and regional office of SPCB along with six – Monthly monitoring report.	Six Monthly Environment Monitoring Report is submitted to MoEFCC along with EC compliance report. Copy of email of last submission in November 2023 is enclosed as Annexure-6 . Hence, condition is complied

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vii	Appropriate Air Pollution Control (APC) system shall be provide for all the dust generating points including fugitive dust from all vulnerable sources so as to comply prescribed stack emission and fugitive emission standards.	<ul style="list-style-type: none"> Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks are provided, 46 nos of stacks are connected through OCEMS to CPCB and MPCB. ESP (17nos) and Bag Filters (157nos), Cyclone & Venturi Scrubber (06 nos), Dry Cyclone separator (01 no) are provided to control the PM emission from stacks within norm.. Raw Material handling area with yard sprinklers, dry fog system, Dust extraction systems to control the fugitive emissions. Covered sheds for Raw Material storage purpose provided. Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage Covered shed for Jetty Yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each. Covered shed for storing Iron Ore Bearing Material and Flux is in progress. Capacity of the covered shed is 4,27,000 MT. Investment on Yard sprinklers, De-dusting system and Dry fogging system to the amount of Rs 77.29 Crores Bag filter, ESPs with adequate capacity to keep the emission levels below 30 mg/Nm³ in all plants (Steel Melting Shop II, Hot Strip Mill II, Blast Furnace II and Lime Calcination Plants 5,6,7) Stacks of adequate height & diameter with continuous stack monitoring facilities for all the stacks as per the requirement. Energy efficient technologies in the Plant like waste heat recovery system, Top gas recovery turbine from Blast furnace and Gas Based power plant. All internal roads made of concrete. Road Sweeping machines (04nos) and water sprinkler tankers (02 nos). Transferring dust of De-dusting system and other secondary dusts

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		<p>generated from Pollution Control equipment by bulkers.</p> <ul style="list-style-type: none"> Transferring raw material from Jetty to plant 100 % through belt and pipe conveyors thereby eliminating any chances of fugitive emission through transportation of material from outside plant to the raw material yard there by improving the Ambient Air Quality. <p>Hence, condition is complied.</p>
Viii	The Project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	<p>In De-dusting system leakage detection system provided. Bag filters with mechanized bag cleaning system like pulse jet type is provided.</p> <p>Hence, condition is complied.</p>
ix	Secondary emission control system shall be provide at SMS Converters.	<p>In SMS Converters, Dust extraction system with bag filters and ESPs provided to control the secondary emissions.</p> <p>Hence, condition is complied.</p>
x	Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.	<p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines.</p> <ul style="list-style-type: none"> BF Slag- 100% utilized in Cement plant. Steel slag- Utilized for construction activities for expansion projects by land reclamation in the low-lying areas and is also being used for internal road making. Further the slag shall be utilized for road construction (Internal roads and National Highways) and marine applications like tetrapod and other civil structures. The specific water consumption for the year 2023 - 24 is < 2.49 m³/t of crude steel which is well below the targets for flat products and as well as for long products. Dry Gas Cleaning plant installed in Blast Furnace 2. The traditional wet

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		<p>scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW, which will reduce CO₂ emissions by approx. 1.4 Lac.tCO₂eq. This system saves specific water consumption.</p> <ul style="list-style-type: none"> • Installed Gas Holders (Coke Oven Gas and LD Gas) which helps the steady flow for distribution of gas in constant pressure (Operating pressure 996 mmWC). Also, it helps in proper utilization of waste gases. It saves and Energy and reduces CO₂ emission. • Blast Furnace TRT – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas. • Coke Oven Plant – Coke Dry Quenching systems (3 Nos) installed and recover the heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. Each CDQ reduces water consumption by 1920 m³/day and energy of 70 MW recovered which reduces the CO₂ emissions by approx. 10.9 Lac.t CO₂eq • Steel Melting Shop (SMS), secondary de-dusting system (Gas Cleaning Plants 4 Nos) has been installed to control fugitive emissions • Coal Injection Plant for direct injection of pulverized coal in furnace has been implemented. Present rate of CDI in our Blast Furnace is 200 Kg/THM (average for the year 2022-23). • Cast House Fume extraction system inclusive of tap holes, runners, skimmers, ladle and charging points have been provided to control Fugitive emissions from Blast Furnace. <p>Hence, condition is complied</p>

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xi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors , roofs, regularly.	<ul style="list-style-type: none"> • Vacuum based Road sweeping machines (04 Nos) are provided to clean the internal on regular basis. • Water tankers (02 Nos) with sprinklers provided for water spraying on road. • Construction of all internal roads by Concrete. • Transfer of dust from De-dusting system and other secondary dusts generated from Pollution Control equipment by bulkers. <p>Hence, condition is complied.</p>
xii	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices in the process after briquetting /agglomeration.	<p>Iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices like Bag Filters and ESPs are reused in the process (Sinter Plant and Pellet Plants).</p> <p>Hence, condition is complied.</p>
xiii	The projects proponent use leak proof trucks /dumpers carrying coal and other raw materials and cover them with tarpaulin.	<p>Majority of the raw material received in the plant is from Jetty through barges. From Barges the material is unloaded through Closed conveyors and pipe conveyors.</p> <p>Raw Material Handling areas, yard sprinklers, Dry fogging system, dust extraction system provided in the junction houses and transfer points.</p> <p><u>Covered sheds for Raw Material storage purpose:</u></p> <ol style="list-style-type: none"> 1. Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage 2. Covered shed for Jetty Yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. 3. Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each. 4. New covered shed for storing Iron Ore Bearing Material and Flux is in progress. Capacity of the covered shed is 4,27,000 MT

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		<p>Total expenditure for covered shed 5 Nos is approximate Rs 320 Crores Investment on Yard sprinklers, De-dusting system and Dry fogging system to the tune of Rs 77.29 Crores.</p> <p>Transportation within plants for materials like lime etc. is through closed bulker. Minimal transportation is through open truck.</p> <p>Hence, condition is complied</p>
xiv	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).	<p>In wharf area of coke oven batteries regular cleaning is done through manually on daily basis. The cleaned material is manually feed to the conveyor. Bag filters are installed at transfer points of Conveyor belt. Collected dust is utilized in Coal cake making.</p> <p>Hence, condition is complied</p>
xv	Land – based APC systems to be installed to control coke pushing emissions	<p>Separate ground De-dusting systems provided to control the charging and pushing emissions from Coke oven plants.</p> <p>Schematic details of charging and pushing side APCS is enclosed as Anexure-13.</p> <p>Hence, condition is complied.</p>
xvi	Monitor CO, HC and O ₂ in flue gases of the Coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	<p>In Coke Oven plants on line systems installed to monitoring parameters for CO, HC and Oxygen.</p> <p>Also the cross leakages in the combustion chamber measured by separate sensors.</p> <p>Hence, condition is complied.</p>
xvii	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in	We have recovery type coke ovens, vapour absorption system is provided.

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	case of recovery type coke ovens.	Hence, condition is complied.
xviii	In Case concentrated ammonia liquor is incinerated, adopt high temperature incineration to destroy Dioxins and Furans. Suitable NOx control facility shall be provided to meet the prescribed standards.	No incineration of concentrated ammonia liquor. Claus process is assisted with ammonia de-composition furnace. Hence, condition is not applicable.
xix	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.	Sulphur content in coal is less than 1%, however, Desulphurization system has been provided in Coke oven plants. After Tar separation, Coke Oven gas is sent to Desulphurization section where the sulphur in the form of H ₂ S gets adsorbed to ammonia solution in the desulphurization tower. The liquor from de-sulphurization tower is sent to De-acidifier & Ammonia Stripping Unit (DASU) to generate sulphur containing vapours, which is further sent to Claus process for sulphur recovery. Hence, condition is complied.
xx	Wind Shelter fence and chemical spraying shall be provide on the raw material stock piles.	Closed covering sheds constructed for storing the raw materials (Coal and Coke). Raw material is being transported through closed conveyors. Raw Material Handling areas, yard sprinklers, Dry fogging system, dust extraction system provided in the junction houses and transfer points. Installed Covered sheds (4 Nos) for Raw Material storage purpose. <ul style="list-style-type: none"> • Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage. Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. • Covered Sheds (2 Nos) for Pellet and Coke Storage of Capacity-1,20,000 MT each. • New covered shed for storing Iron Ore Bearing Material and Flux is in progress. Capacity of the covered shed is 4,27,000 MT • Investment on Yard sprinklers, De-dusting system and Dry fogging system

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		<p>to the tune of Rs 77.29 Crores</p> <p>The project proponent has provided adequate de-dusting systems with ESPs, Bag Filters in Steel melting shop, Blast Furnace, Lime Calcination Plants, Pellet Plant.</p> <p>Photographs of cover sheds is enclosed as Annexure-7.</p> <p>Hence, condition is complied.</p>
xxi	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, Motor houses, oil Cellars.	<p>Adequate ventilation system has been provided for all motor houses, Oil cellars, Furnace areas by reputed vendors.</p> <p>Hence, condition is complied.</p>
xxi	The project proponent shall install dry Gas Cleaning Plant with bag filter for blast Furnace and SMS converter.	<p>Dry Gas Cleaning Plant with bag filter installed at Blast Furnace and SMS Converter.</p> <p>In Steel Melting Shop Basic Oxygen Furnace Converter area provided with pollution control systems like ESP and Bag Filters.</p> <p>Hence, condition is complied.</p>
III Water quality monitoring and preservation		

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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 31 st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plant) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>On line effluent monitoring systems is provided as per CPCB guidelines.</p> <p>24x7 continuous emission monitoring system (CEMS) is provided at process stacks as per guidelines of CPCB and MPCB consent requirement. Screenshot of Connectivity of CEMS is enclosed as Annexure 5a</p> <p>Calibration of the CEMS is done on by the external agency</p> <p>Hence, condition is complied.</p>
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 recognised under Environment (Protection) Act. 1986 and NABAL accredited laboratories.	<p>There is no ground water withdrawal hence piezometer for monitoring ground water is not provided.</p> <p>Hence, condition is not applicable.</p>
iii	The Project Proponent shall monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional office of MoEF & Cc , Zonal office CPCB and Regional office of SPCB along with Six – Monthly monitoring report.	<p>Report of effluent monitoring are sent to Regional Office, MoEF&CC Nagpur and MPCB along with six monthly monitoring report. Copy of email of six monthly monitoring report submission to RO, MoEF&CC, Nagpur is enclosed as Annexure-5.</p> <p>Hence, condition is complied.</p>
iv	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 31 st March 2012 (Integrated iron & Steel); 3305 (E) dated 7 th December 2015 (Thermal Power Plant) as amended from time to time as amended from time to time.	<p>Effluent Treatment Plant (ETP) i.e. Biological Oxidation and Dephenoloization (BOD) plant has been provided for the Coke Oven plant. Treated Effluent from ETP meets the prescribed standards</p> <p>Hence, condition is complied.</p>

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v	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Sewage Treatment Plant provided for treatment of domestic wastewater to meet the prescribed standards. Hence, condition is complied.
vi	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	Covered storage yards are provided for storage of raw material like coal, Iron Ore and Flux storage yards, installed to avoid runoff during monsoon. Hence, condition is complied.
vii	Tyre washing facilities shall be provided at the entrance of the plant gates.	Raw material shall be transported through closed conveyor belt from jetty to plant. Tippers and truck movement is restricted within premises. All internal road are concretised. Hence, condition is complied.
viii	CO ₂ injection shall be provide in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated water for converter gas cleaning.	Dry type GCP is provided at SMS. Hence, reduce pH in circulating water to ensure optimal recycling of treated water is not applicable. Hence, condition is complied.
ix	The projects proponent shall make efforts to maximum possible extent.	Noted.
x	Treated water from ETP of COBP shall not be used for coke quenching.	Dry type quenching method is used for coke quenching. However, while using the Wet quenching system, the treated water from the BOD plant is used for coke quenching purpose Hence, condition is complied.
xi	Water meters shall be provided at the inlet to all unit processes in the steel plant.	Water meters have been provided at individual units to measure the water consumption. Hence, condition is complied.

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xii	The projects proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	<p>Blow down from the cooling tower of clean circuit is fed as make-up water to cooling circuit of contaminated water. Pressure filtration system provided for cleaning the contaminated water.</p> <p>Dry Gas Cleaning Plant provided at SMS Converter & Blast Furnace for water scrubber elimination, leading to the effective collection of LD gas and BF gas and utilized inside the plant.</p> <p>Coke dry quenching system installed at Coke oven plant.</p> <p>Hence, condition is complied.</p>
IV Noise monitoring and prevention		
i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional officer of the ministry as a part of six –monthly compliance report	<p>Noise level monitoring is carried out in the plant locations and submitted to MoEFCC on six monthly basis.</p> <p>Copy of noise monitoring report is enclosed as Annexure-5.</p> <p>Hence, condition is complied.</p>
ii	The ambient noise levels should conform to the standards prescribed under E (P) rules, 1986 viz . 75 db (A) during day time and 70 db (A) during night time	<p>Copy of noise monitoring report is enclosed as Annexure-5.</p> <p>Hence, condition is complied.</p>
V. Energy Conservation measures		
i	The project proponent shall provide TRTs to recover energy from top gases to blast furnaces.	<p>In Blast Furnace Top Gas Recovery Turbine is provided to recover the energy from top gases.</p> <p>The top gas from blast furnace is having high pressure (5 bars) which is recovered through Top Recovery Turbine (TRT).</p> <p>The traditional wet scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter have low pressure drop</p>

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		<p>thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increased approx. of 22 MW.</p> <p>Hence, condition is complied.</p>
ii	Coke Dry Quenching (CDQ) Shall be provided for coke quenching for the both recovery and non – recovery type coke ovens ;	<p>We have recovery type Coke oven plant. Coke Dry Quenching (CDQ) system installed at Coke oven plants. The steam generated from the CDQ is used to generate power.</p> <p>Hence, condition is complied.</p>
iii	Waste heat shall be recovered from sinter Plant coolers and Sinter Plants coolers and sinter Machines.	<p>At Sinter plants an Coke Oven plants, waste gas recovery systems with boilers are already installed.</p> <ul style="list-style-type: none"> • Energy efficient technologies provided in the Plant like waste heat recovery system, <ul style="list-style-type: none"> • Sinter plant- 1 Boiler (7 TPH) Waste Heat Recovery • Sinter plant- 2 Boiler (20 TPH) Waste Heat Recovery • Coke Oven -2 Boiler (9.2 TPH) Waste Heat Recovery • Coke Oven -2 Boiler (5.2 TPH) Waste Heat Recovery • Coke Oven -2 CD Boiler (5.2 TPH) Waste Heat Recovery • Coke Oven -1 Boiler (4.5 TPH) Waste Heat Recovery • Steel Melting Shop-2 Boiler (74 TPH) Waste Heat Recovery • Coke Dry Quenching (CDQ) Boiler-1 (72 TPH) Waste Heat Recovery • CDQ Boiler -2 (94 TPH) Waste Heat Recovery • CDQ Boiler -3 (94 TPH) Waste Heat Recovery <p>Hence, condition is complied.</p>
iv	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used , provide covers for open top ladles.	In Blast Furnace I & II the hot metal is transferred through torpedo ladle car (TLC). Total 35 Nos of TLCs are provided. 200 Tons capacity (21 Nos) for

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		both BF-1 & BF-2 and 380 Tons capacity (14 nos) for BF-2, Hence, condition is complied.
v	Use hot charging of slabs and billets / blooms as far as possible.	The system is continuous process for making Hot rolled coils and TMT bars. Hence as per the existing practice, hot charging of slabs and billets / blooms process in place. Hence, condition is complied.
vi	Waste hot recovery system shall be provide in all units where the flue gas or process gas exceeds 300°C .	Existing Sinter plants I & II waste gas recovery systems with boilers are already installed. Coke oven plants heat recovery boilers provided. <ul style="list-style-type: none"> • Dry Gas Cleaning plant installed in Blast Furnace, the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW. • Installed Gas Holders (Coke Oven Gas and LD Gas) which helps the steady network flow for distribution of gas in constant pressure (Operating pressure 996 mmWC). Also it helps to proper utilization of waste gases. It saves Energy and reduces CO2 emission. • Blast Furnace TRT – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas. • Coke Oven Plant – Coke Dry Quenching systems (3 Nos) installed and recover the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. CDQ reduces water consumption and recovers energy which will reduce the CO2 emissions. Hence, condition is complied.
vii	Explore feasibility to install WHRS at Waste Gases from BF Stoves: Sinter Machine Sinter Cooler, and all reheating	At Blast Furnace, Sinter plants and Coke oven plants, Waste Heat Recovery boilers are in place.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	furnaces and if feasible shall be installed .	Hence, condition is complied.
viii	Restrict Gas Flaring to < 1%	<p>Following initiatives have been taken to restrict gas flaring <1% :</p> <ul style="list-style-type: none"> • The Gas generated from Blast Furnace and Coke oven plants are used as fuel in other plants. • Operation of Gas Based Captive Power plants of capacity 55 MW and 170 MW by Using BF and Coke oven gas. • Installed Gas Holders (Coke Oven Gas and LD Gas) of capacity 1 Lakhs M3 which helps the steady network flow for distribution of gas in constant pressure. • Total CO2 Savings will be approximately 660000 Ton of CO2 per year. • Energy saving approximate 1 Million Gcal/Year <p>Hence, condition is complied.</p>
ix	Provide solar Power generation on roof tops of buildings for solar light system for the all common area, street lights. Parking around projects area and maintain the same regularly;	<p>Power generation on site is through gas based CPP using waste gas/by-product gases from processes of units of integrated steel plant. Thus, non-fossil fuel based power generation is already implemented.</p> <p>However, feasibility of installation of solar Power generation is being worked out and shall be implemented by end of completion of project.</p> <p>Hence, condition is being complied.</p>
x	Provide LED lights in their offices and residential areas.	<p>LED lights are provided in the plant offices and plant areas.</p> <p>Hence, condition is complied.</p>
xi	Ensure installation of regenerative type burners on all reheating furnace.	<p>Regenerative type burners are provided on reheating furnaces.</p> <p>Hence, condition is complied.</p>
VI. Waste management		

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
i	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 kg /l shall be installed to use slag as river sand in construction industry.	BF Slag is 100 % used Cement making by JSW Cement. Hence, condition is complied.
ii	In Case of Non – Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.	The existing coke oven plants are recovery type. The coke oven gas generated is used as fuel for various processes. Heat recovery system boilers installed at Coke oven plants. The waste heat lines are insulated to conserve heat and to maximise heat recovery. Hence, condition is complied.
iii	Tar sludge and waste oil shall be blend with coal charged in coke ovens (applicable only to recovery type coke ovens)	As per the Coke Oven plants are recovery type, the Tar sludge is blended with coal charging in the battery. Hence, condition is complied.
iv	Carbon recovery plant to recover the elemental to recover scrap , metallic and flux for recycling to sinter plant and SMS.	For existing plant, the steel scrap generated from the plant is used in Electric Arc Furnace. The Solid wastes like Coal dust, Iron Ore fines, Lime Stone fines, Bag filter dust and ESP dusts are reused as raw material in Sinter Plants and Pellet plants. Hence, condition is complied.
v	Waste Recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Slag processing plant with Metal recovery system is in place. All the plant wastes like Bag Filter Dust, ETP sludge and Iron bearing materials are used in Sinter plants and Pellet Plant. The metal scarp like skull and MS scraps are used in Electric Arc Furnace. Hence, condition is complied.
vi	Used refractories shall be recycling for possible.	The used refractories are used in Steel melting shop as Eccentric Bottom Tapping (EBT) filling mass and sold to outside parties and/or used for land filling.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		Hence, condition is complied.
vii	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The Projects proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. the Project proponent shall establish linkage for 100% reuse of rejects from waste recycling plant.	<p>R&D work with various Govt. agencies are carrying out the utilization of Steel slag for various purposes.</p> <p>EAF slag is being used for road construction (Internal roads and National Highways) and land reclamation purpose.</p> <p>Study conducted by Central Road & Research Institute (CRRI) for Construction of Concrete road by using Steel Slag (EAF Slag) as aggregates and construction of JSW Steel, under the CSIR-CRRI technological guidance, has constructed the 1 km long four lane steel slag road section on Indapur-Panvel Section of NH-66 Mumbai-Goa. For construction of this road around 80,000 tons of CONARC Steel slag were converted as processed steel slag aggregates at JSW Steel Dolvi, Raigad plant.</p> <p>Also steel slag can be used for marine applications for making tetrapod and marine structures.</p> <p>BOF Slag will be processed by steam quenching technology and shall be used for construction purpose.</p> <p>Proposed project for converting the slag into sand (by processing in Slag to Sand plant).</p> <p>Hence, condition is complied.</p>
viii	100% utilization of fly ash shall be ensured . All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's regional Office.	<p>This condition is not applicable to this plant.</p> <p>The Captive Power plant for the existing and the expansion project are Gas based. Hence Fly Ash will not be generated in the process. Therefore, Fly Ash utilization is not relevant to this plant.</p>
ix	Oil Collection pits shall be provided in oil cellars to collect and reuse/ recycle Spilled oil. Oil collection trays shall be	Oil cellar areas, oil collection pits have been provided to collect the spilled oil.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	provided under coils on saddles in cold rolled coil storage area.	This plant is not producing Cold Rolled Coil and don't have facility for storage of cold rolled coil. Hence, condition is complied.
x	The Waste oil grease and other hazardous waste like acidic sludge from picking galvanising chrome plating mills etc. Shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules 2016 Coal tar sludge / decanter shall be recycled to coke ovens .	The used and spent oil generated from the plant shall be sold to MPCB authorized recyclers as per the Hazardous Waste (Management, Handling and Transboundary Movement) Rules. We don't have facility for producing galvanising chrome plating mill. Hence there will not be generation of acidic sludge. Coal tar sludge / decanter generated from Coke oven plant is being recycled to coke ovens as per the CREP Guidelines as the Coke oven plant is recovery type. Hence, condition is complied.
xi	Kitchen waste shall be composed or converted to biogas for further use.	Canteen waste is composed and converted into Bio gas. Hence, condition is complied.
VII. Green Belt		
i	Green belt shall be developed in are equal to 33% of the plant area with a native tree species in accordance with CPCB guideline. The greenbelt shall inter alia covert the entire periphery of the plant.	<p>Green Belt within Plant:</p> <p>Presently, 13% green belt is developed over 80.0 Ha land within the plant premises with 2,11,388 nos of trees. Balance 18.42 Ha (3%) green belt area is to being developed with 46,200 nos of trees.</p> <p>Green Belt in 10 Km Buffer:</p> <p>Green belt outside the plant premises has been developed over 203.00 Ha i.e. 33%.</p>

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS																											
		<p>Green belt outside the plant premises is developed in forest land in proximity of the plant in consultation with local forest department over 51 ha land and Mangrove Plantation over 152 ha.</p> <p>Hence, condition is complied.</p>																											
ii	<p>The Projects proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including planation.</p>	<p>GHG emissions inventory is being prepared for regular monitoring of CO2 emissions. Plant wise CO2 Emissions contributors are regularly monitored and action plan prepared.</p> <p>CO2 emission n reduction plan is as below-</p> <table border="1"> <thead> <tr> <th colspan="3">Carbon Footprint Mitigation Plan</th></tr> <tr> <th>Year</th><th>Project details</th><th>Reduction (Kg CO2/TCS)</th></tr> </thead> <tbody> <tr> <td rowspan="2">FY'24</td><td>Optimizing utilization of FY23 Initiatives</td><td>130</td></tr> <tr> <td>Waste gas recirculation (Sinter 2)</td><td>3</td></tr> <tr> <td rowspan="5">FY'25</td><td>Renewable Energy 95 MW(RTC 30) Wind Power</td><td>15</td></tr> <tr> <td>Dehumidification in Blast Furnace Cold Blast</td><td>15</td></tr> <tr> <td>Reduction in BFG Flare from 9.09% to 3% by Injection in CDQ/Installation of BF Steam blower</td><td>35</td></tr> <tr> <td>Waste Gas Recirculation (Sinter 1)</td><td>3</td></tr> <tr> <td>NG Injection in BF @ 50 Kg/thm</td><td>25</td></tr> <tr> <td rowspan="2">FY'26</td><td>Renewable Energy 560 MW(RTC 162) (Wind +Solar)</td><td>90</td></tr> <tr> <td>DRI Usage in BF @ 50 Kg/thm</td><td>15</td></tr> </tbody> </table>	Carbon Footprint Mitigation Plan			Year	Project details	Reduction (Kg CO2/TCS)	FY'24	Optimizing utilization of FY23 Initiatives	130	Waste gas recirculation (Sinter 2)	3	FY'25	Renewable Energy 95 MW(RTC 30) Wind Power	15	Dehumidification in Blast Furnace Cold Blast	15	Reduction in BFG Flare from 9.09% to 3% by Injection in CDQ/Installation of BF Steam blower	35	Waste Gas Recirculation (Sinter 1)	3	NG Injection in BF @ 50 Kg/thm	25	FY'26	Renewable Energy 560 MW(RTC 162) (Wind +Solar)	90	DRI Usage in BF @ 50 Kg/thm	15
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VIII. Public hearing and Human health issues																				
i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented .	<p>Plant wise Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan are already implemented.</p> <p>Hence, condition is complied.</p>																		
ii	The project proponent shall carry out heat stress analysis for the workmen who work in in high temperature work zone provide personal protection Equipment (PPE) as per the norms of factory Act.	<p>Heat Stress analysis is being implemented for the workman who are working in high temperature area and adequate PPEs shall be provided. The records are maintained and submitted to statutory authorities by HR.</p> <p>Hence, condition is complied</p>																		
iii	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.	<p>During construction of housing colony, necessary infrastructure and facilities such as fuel for cooking mobile toilets, mobile STP, safe drinking water medical health care, crèche etc is being provided to the labours.</p> <p>After completion of the entire project activities, the same shall be removed.</p> <p>Hence, condition is complied</p>																		

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	As per the Factories Act, regular health check-ups have been done for workers and employees & records are maintained on regular basis. Hence, condition is complied
IX CSR Environment Responsibility		
i	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental police should prescribe for standards operating to have proper check and balance and to bring into focus any infringements / deviation /violation of the environmental /forest / wildlife norms/conditions. The company shall have defined system of reporting infringements /deviation /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.	Environment Policy is in place and being complied in adherence to Environmental Clearance, Environmental Laws and regulations. Copy of Environment Policy is enclosed as Annexure- 8 . Hence, condition is complied.
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 senior Executive, who will directly to the head of the organization.	Separate Environment Cell is in place having qualified Environment personnel. The Environment Cell team size is around 25 nos. The Team reports to Site Environment head and Site Environment head reports to Site Head and Corporate Environment Head, who reports to Chief Operations Officers- COO. Hence, condition is complied.
iii	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall duly approved by competent authority. The year wise funds earmarked for environmental	A separate budget head created under Environment Management Programme and the fund marked for Environment protection measures shall be maintained separately and it will not have diverted for any other purpose.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / regional office along with the Six Monthly Compliance Report.	<p>Rs 806 Crores spent for Expenditure on Environment Protection as capital investment for plants under Expansion from 5 to 10 MTPA steel Plant for pollution control devises for Air, Water and Solid Wastes.</p> <p>The revenue expenditure on Environmental protection for the year 2022-23 was Rs 592.26 Crores.</p> <p>Hence, condition is complied.</p>
iv	Self environment audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	<p>Internal audit is conducted by trained internal audit team.</p> <p>External audit also conducted by third party once in a year.</p> <p>Hence, condition is complied.</p>
v	All the recommendation made the charter on corporate responsibility for Environment protection (CREP)_ for the Iron and steel plants shall implemented.	<p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines.</p> <ul style="list-style-type: none"> • Blast Furnace – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas. • DRY Gas Cleaning Plant installed in Blast Furnace. • Steel Melting Shop (SMS), secondary de-dusting system has been installed to control fugitive emissions • Coal Injection Plant for direct injection of pulverized coal in Blast Furnace has been implemented. Present rate of CDI in our Blast Furnace is 200 Kg/THM. • BF Slag- 100% utilized in Cement plant. • Steel slag- Utilized 100 % for construction activities for expansion projects by land reclamation in the low lying areas and is also being used for internal road making. Further the slag will be utilized for road construction and marine applications like tetrapod and other civil structures.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		<ul style="list-style-type: none"> • Cast House Fume extraction system inclusive of tap holes, runners, skimmers, ladle and charging points have been provided to control Fugitive emissions from Blast Furnace. • The specific water consumption for the year 2022 - 23 was < 2.48 m3/t of crude steel which is well below the targets for flat products and as well as for long products. <p>Online Stack Monitoring System have been installed on all stacks. The real time data is interlinked with MPCB and CPCB server.</p> <p>Hence, condition is complied.</p>
X. Miscellaneous		
i	The Projects proponent shall make public the environmental clearance granted for their projects along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspaper of the District or State, of which one shall be in the vernacular language within seven days and addition this shall also be displayed in the project proponent's website permanently.	<p>Published in newspaper as per guidelines namely in Local newspaper Dainik Krushiwal, Raigad Times, Ramprahar dated 30th June 2020 and English newspaper Free Press Journal dated July 10, 2020 and the same was displayed on JSW website.</p> <p>Hence, condition is complied.</p>
	The copies of environmental clearance shall be submitted by the projects 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 display the same for 30 days from the date of receipt.	<p>A copy of Environment Clearance letter is already submitted to concerned Panchayat, Zillah Parishad/Municipal Corporation, Urban Local Body and the local NGO,</p> <p>Hence, condition is complied.</p>
iii	The project proponent shall up lode the status compliance of stipulated environment clearance conditions including results of monitored date on their website and update the same on half – yearly basis.	<p>Noted and shall be complied on regular basis.</p> <p>Environmental Monitoring Report and EC Compliance status are regularly updated on the company website.</p>

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		Hence, condition is complied.
iv	The Projects Proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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.	Environmental parameters are monitored on monthly basis and the Six monthly environmental monitoring reports are submitted to MoEFCC and displayed the same in JSW Steel website. Hence, condition is complied.
v	The Project proponent shall submit six- monthly reports on the status of the compliance of the stipulated Environmental conditional on the website of the ministry of environment ,Forest and Climate change at environmental Clearance portal.	Six monthly environmental Clearance compliance reports are submitted to MoEFCC and displayed the same in JSW Steel website. Hence, condition is complied.
vi	The Project proponent shall submit the environment statement for each financial year in from –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.	Environment Statement reports are prepared and submitted to MPCB before 30 th September of every year. The same is uploaded on JSW Steel Website. Hence, condition is complied.
vii	The Project proponent shall inform the Regional office as well as 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.	The status of commencement and start of production is provided to all the authorities with six monthly compliance reports. Hence, condition is complied.
viii	The Project authorities must strictly adhere to the stipulations mode by the state pollution control Board and the state Government.	The Project authorities is adhering strictly to the stipulations mode by the state pollution control Board and the state Government. Hence, condition is complied.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
ix	The Project proponent shall abide all the commitments and recommendations made in the EIA/ EMP report ,commitment made during public Hearing and also that during their presentation to the Expert Appraisal Committee .	<p>Separate budget is maintained for implementing the projects/ issues as discussed during Public Hearing and as per the discussions with the Expert Appraisal Committee.</p> <p>JSW foundation is the apex organization which is responsible for implementation of CSR activity in and around Dolvi works. JSW foundation is supported by JSW Steel Limited & will be complied.</p> <p>The project proponent has spent the following Amount on CSR Activities: The project proponent has spent Rs 13.42 Crores under CSR activity for 2023-24 (April to March 2024)</p> <p>The above amount has been spent on Social Development- (Education & Training), Skill Development, Water and Sanitization, Agriculture, Rural Development, Health, Solid Waste Management and Community Development.</p> <p>Hence, condition is complied.</p>
x	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment , Forests and Climate Change (MoEF/ CC).	<p>No further expansion or modification in the plant have been carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF/ CC).</p> <p>Hence, condition is complied.</p>
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	<p>All the data is submitted with authenticity and undertaking for correctness.</p> <p>Hence, condition is complied.</p>
xii	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	<p>All the required conditions are implemented.</p> <p>Hence, condition is complied.</p>
xiii	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound	Agreed and complied for the conditions of MoEF&CC.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	manner shall implement these conditions.	Hence, condition is complied.
xiv	The Regional office of this Ministry Monitor Compliance of stipulated conditional. The Project authorities should extended full cooperation to the officer (s) of the regional office by furnishing the requisite data /information/monitoring reports.	Agreed and complied. Hence, condition is complied.
xv	The above conditions shall be enforced inter – alia under provisions of the water (Prevention & Control of Pollution) Act,1974 the Air (Prevention & Control of Pollution)Act,1981 , the Environment (Protection) Act ,1986 Hazardous and other Wastes (Management and transboundary Movement) Rules ,2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules ,2016 and any other orders passed by the hon’ble supreme Court of India /High Court and any other Court of Law relating to the Subject matter.	The plant is complying for <ul style="list-style-type: none"> •The Water (Prevention and Control of Pollution) Act 1974 •The Air (Prevention and Control of Pollution) Act 1981 •The Environment (Protection) Act 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 •The Public (Insurance) Liability Act 1991 along with their amendments and Rules. Hence, condition is complied.
xvi	Any appeal against this EC shall lie with National Green Tribunal ,if any, preferred within a period of 30 days as prescribed under section 16 of the National green Tribunal Act,2010.	Agreed and complied. Hence, condition is complied.

Annexure 1

Photographs of Green Belt

Green belt at the Entry gate



Green belt at Admin building and Gas Storage



Green belt at Internal Roads



Green belt at SMS-1 plant



Green belt around Temple within plant at Entry gate



Green belt along internal roads



Green Belt along Boundary Wall



Green belt at peripheral road



Green belt near Junction house/conveyor belt route



Green belt along conveyor belt route



Green belt at Sponge Iron Plant



Green belt at Gas receiving Station



Green belt at open area within plant



Green belt near LD Plant and internal road



Green belt at HSM Plant



Green belt near power Plant



Green belt in open area near Main Gate



Green belt at receipt and dispatch yard



Green belt around oxygen plant and rail track



Annexure 2

Details of Expenditure on CER

Annexure 6

CER Details for five years (in Crores)

S. No	Programme	Program details	Total	2017-18	2018-19	2019-20	2020-21	2021-22
1	Health	Construction of a new Multi speciality Hospital Jindal Sanjeevani Dolvi Hospital (70 beds) located near the plant on the road to Wadkhal. The hospital will serve the healthcare needs of the local community and employees at affordable costs making healthcare accessible to the local community.	65	10	20	25	10	-
2	Water	Provision of drinking water to 45 villages along the makeup water line to the steel plant.	15	2	8	5		
		Construction of Rain Water Harvesting at roof top of nearby villages and nearby schools.	0.76	0.17	0.14	0.15	0.15	0.15
		Renovation of community ponds nearby villages	0.45	0.08	0.07	0.1	0.1	0.1
3	Infrastructure	Construction of internal village roads, pathways, Drainage and installation of solar street lights	16.35	1.75	3.4	3.6	3.8	3.8
4	Skill development	Supporting Infrastructure facilities at Industrial Training Institutes (ITIs) at Nagothae and Pen. JSW Skill school at Wadkhal, Pen for tailoring, fish, hand gloves, vegetable shop, other livelihood options.	8	1.5	1.25	1.75	1.75	1.75
5	Agricultural and Scientific support	Support of better farming practices, market linkages and create awareness about Agri allied business	4.25	0.65	0.9	0.9	0.9	0.9
6	Plantation	Mangrove plantation within 10 KM area from the plant. (345 Acres). Tree Plantation at Forest land of nearby plant area (Dolvi, Khakarav).	9	1.25	1.75	2	2	2

		Avenue Plantation at NH in the plant area.						
		TOTAL	118.81	17.4	35.51	38.5	18.7	8.7

Annexure 3

Water Agreements

Copy of all Water drawl permission letters**List of all Water drawl permission letters of JSWSL, Dolvi**

Sn	Description	Permitted drawl quantity (in MLD)
1.	7.00 MLD (ARCL) WATER AGREEMENT	7.00
2.	9.00 MLD (JSW VILLAGERS) WATER AGREEMENT	9.00
3.	35.70 MLD (JSW) WATER AGREEMENT	35.70
4.	55.16 MLD (JSW) WATER AGREEMENT	55.16
5.	58.98 MLD (JSW) WATER AGREEMENT	58.98
Total permitted quantity for drawl		165.84

७.०० दललि/दिन
मे.अंबा रिव्हर कोक लि..
मौजे डोलवी, ता.पेण, जि.रायगड
करारनामा कालावधी
दि.०४/०२/२०२२ ते ०३/०२/२०२८



महाराष्ट्र MAHARASHTRA

● 2021 ●

BE 342350

५. एक दिवसी नौदलही अनु. क्रमांक. 1023 दिनांक. 22.04.2022

ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਰ: 02014

उत्त नैदश्री मरणार आदेश का ? होय न-नाही.....

* ॐ नमो भगवते वासुदेवाय

१. कि. नि. वि. : पत्राचार नं. ३५६४ दि. २०.७.८९ का. प्र. लि. अमरा

1. பெரிய காவிரி.....நீர்வாழ்வு வகை, பாதி

198

पुष्पा-समादितः =

1. 1000 5001



sub Treasury Office
401 East. Grand

22 MAR 2022

दिनेश पट्ट, पारस (गडब)

भारतीय स्टैंडर्ड-गैजिट ऑफ इंडिया

पर्याप्त: २/१/१८

सहस्रसिद्धि व्यवस्थालम्भ-येन

AGREEMENT

(For Non - Irrigation water supply)

AN AGREEMENT Renewed on Dt. _____ for the
period of _____ BETWEEN **M/S AMBA RIVER
COCK LTD** (which expression shall, unless excluded by or it be repugnant
to the context or meaning there of be deemed to include its successors and
assigns) registered under the Indian Companies Act, 1913 (vil of 1913), and
having its registered office at **The Enclave, 5th Floor, Behind Marathe
Udyog Bhavan, New Prabhadevi Road, Prabhadevi, Mumbai-400 025** and
Plant Office at **Dolvi, Taluka-Pen, Dist.Raigad Maharashtra State-402107**
hereinafter referred to as "The Company" of the one part;



Executive Engineer
Malgad Irrigation Division.



महाराष्ट्र MAHARASHTRA

2021

BE 343091

मुद्राक किती नोंदवही अनु. क्रमांक. 133/2 दिनांक. 2.2.2022 2021 2

मुद्राका प्रकार. 500

दला नोंदणी करणार आहेत का? होय / नाही

निदेशावली धाड्यात केली.

मुद्राक किती नोंदवहीचे भाव. अम्बा रिवर कोक लि. डोली

हस्त आल्यात त्यांचे नांव. सिखार भाऊके

सही.

दस्तावेज नोंदवही.

मुद्राक मुक्त रक्कम. (500)

Sub Treasury Office
Pen-Raigad

21 APR 2022

श्री. निवेश राय, पाटील (गडब)

मुद्राक विक्री, मंडा, वि. मंडागड.

परवाना क्र. 1/1516

प्रमाणित करण्यात येते

AND THE GOVERNOR OF MAHARASHTRA (hereinafter referred to as "The Government (which expression shall unless excluded by or it be repugnant to the context or meaning thereof, be deemed to include its successors and assigns) of the other part;

WHEREAS the company is desirous of constructing a pumping station on the company's land at M/S AMBA RIVER COCK LTD for drawing water from the source of Amba River (here in after referred to as "the said source") for the use by the Company's plant located in Dolvi (here in after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

Signature



Executive Engineer,
Raigad Irrigation Division.

Page 4 of 71

AND WHEREAS the Company has applied to the Government for permission to draw 7.00 million liters of water per day from the said source AND whereas the company has paid Rs.Nil (Rupees Nil) to Government towards the proportional cost of capital outlay of the project.

AND WHEREAS the Government has agreed to grant the aforesaid permission to the company on the terms and conditions Vide Chief Engineer, Kokan Region Mumbai letter no Marathi Letter जा.क्र.इ.प.प.स. ई.सि. (पापु)/ता.४/४९, दि.०४/०९/२०१६.

AND WHEREAS the Company has to deposit with the Executive Engineer Raigad Irrigation, Division Kolad a sum of Rs.59,05,000/- (Rupees Fifty Nine Lakh Five Thousand only) as security equivalent to two months company's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of Demand Draft/Fix Deposit receipt or a bank guarantee issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the Company of the terms and conditions of this Agreement.

AND WHEREAS the company has accordingly, prior to the execution of these presents, deposited with the Government a sum Rs.59,05,000/- (Rupees Fifty Nine Lakh Five Thousand only) as security for the due observance and performance by the Company of the terms and conditions herein contained. AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash. (

Receipt No. Dt.)

Definitions :-

Quota :- Quota means daily demand sanctioned and communicated to M/S ANBA RIVER COCK LTD by the Executive Engineer.

Corporation:- Corporation means the River basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathawada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC). & Vidharbha Irrigation Development Corporation (VIDC), Municipal corporations, Municipalities etc.

MIDC :- MIDC means Maharashtra Industrial Development Corporation.

MJP:- MJP means Maharashtra Jeevan Pradhikaran.



Executive Engineer
Raigad Irrigation Division
Kolad

Yearly applicable demand:- Yearly applicable demand means the water demand communicated by the USER for the period from 1st November to 31st October to the Executive Engineer & sanctioned by Irrigation Department every year in the month of September along with its bifurcation for Industrial domestic and agricultural use.

USER:- USER means water using agency like individual company, Industrial Entrepreneurs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:-

- 1) (a) In consideration of the Company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained, the Government do hereby grant to the Company permission to draw following quota of water for the specified purpose

Sr. No.	Description/Use	Quantity in MLD (Million Liters Per Day)
1	Total sanctioned quota	7.00
2	For other than water as raw material industrial use	6.00
3	For agricultural use (nursery/gardening) within the companies premises	1.00

and use the same for the purpose of the Company's said plant or project, for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the Day of _____ on the following terms and conditions:

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases wherein the water used for Domestic/Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.
- (c) The industrial water requirement, the domestic water requirement and the agricultural (nursery/gardening) water requirement of the Company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.
- 2) The Renewal permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revisions, if any, in force and any executive orders issued in this behalf by the Government and any statutory amendment thereof from time to time and for the time being in force.



Executive Engineer
Raigad Irrigation Division

- 3) Nothing herein contained shall be deemed to imply any guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and the Government shall not be responsible for the non-supply or inadequate supply of water on any account whatsoever. However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department bill shall be charged as per actual quantity of water lifted/supplied during such period.
- 4) The Company shall use the water drawn from the said Amba river for purposes of the Company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies.") The Company shall not sale the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. The Government shall also be entitled to recover from the Company the proceeds of any such sale made by the Company.
- 5) The Government shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the Company as to which matter the decision of the Government shall be final and binding on the Company, for such purpose as the Government deems fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to hereafter launch or implement in public interest any new schemes or schemes on its own, on or in connection with the present source of channel of water supply available to the Company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.
- 7) The company shall not construct the pick-up weir in the Amba river bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the Company, the Company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer install for all uses mentioned in clause no. 1 of this agreement independent pipeline fitted



Executive Engineer
Raigad
T. 10/24

with separate electronics water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer). All the pipeline layout showing locations of the metering equipment from the said source for different purposes shall be got jointly verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the Company failing to install the meter, during such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. for the event of the company in falls the water meter but fails to keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid, the Company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8(d) I & II appearing hereinafter.

The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The Company shall, at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the last day of each month or at agreed times, jointly by the Authorized representatives of the Executive Engineer and of the Company. Authorized representative of Executive Engineer shall not be stopped by the company on the gate and shall not be checked for security propose and shall be allowed to inspect company premises at any time failing which the company is liable for cancellation of quota allotted. Decision of Executive Engineer in such case will be binding on company.
- (c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the Company. If on such testing the said electronic measuring devices are found to be defective, the Company shall forthwith get the same repaired and set right at its own cost and in the event of the Company failing to do so within 30 days thereafter the Executive Engineer may proceed to do so on account and at the cost of the Company.



Executive Engineer
Irrigation Department
Kolar

- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the Company during the period when the meter was defective and not working shall be ascertained in the following manner:
- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the sanctioned demand as communicated in clause No. 11 quantity or average for the last six months whichever is higher.
- (ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the sanctioned demand as communicated in clause No. 11 or average the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the Company that cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

- (iii) If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be levied as per the rates specified for the industrial use for the total quota as referred to in clause 1 (a) of this agreement.
- 9) Billing should be done on monthly basis. The bill for the water drawn by the Company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the Company within 15 days after the end of the water consumption month. The Company shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer, Raigad Irrigation Division Kotad for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge as stipulated by Government of Maharashtra will be charged. If the delay in payment of water charges exceeds six months the Irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.



- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the Company.
- 11) Subject to the provisions of clause (8) hereof, the Company shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges said electronic measuring devices at the following rates, namely:-

Rate in Rs. Per 10,000 Liters i.e. (1 unit)

Use	Sanctioned Quota	From 11.01.2018 Onwards
Industrial	6.00 MLD	The above rates are as per the Governor Resolution No. MWRRP Order No.1/2018 dated 11 th January, 2018 Or any other rate notified by Government of Maharashtra.
Domestic	----	
Horticulture	1.00 MLD	

The Water lifted by the user during rainy season from the river where irrigation department has not released the water is chargeable as per the rates decided by Government of Maharashtra and no concession will be fought by user on such lifted water. User is fully aware of the category allotted to user by Executive Engineer for the purpose of drawing water from Amba River and no such claim or the dispute will be raised by the user. The decision of Executive Engineer will be binding on the user in this matter.

- i) If in any month the quantity of water drawn by the Company is less than 90 per cent of the quantity of water specified in clause (1) hereof then the company shall pay to the Government water charges as per the Government of Maharashtra Notification.
- ii) For any unforeseen reasons, if the Company would like to reduce / increase the demand of water entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of July. On acceptance of such revised demand the Company will be charged as per changed demand for the period specified, other conditions remaining same. A supplementary agreement on Rs.100/- stamp paper for this changed quantity which will form part of main agreement.



Executive Engineer
Rigid Irrigation Division
Kolar

- iii) No penal rate will be levied for the quantity limited to 10% in excess of the sanctioned one. For quantity used in excess of this 10% without prior sanction a penal rate as per Government of Maharashtra Notification will be charged over the basic rate. The delay in payment on account of this also will be governed by clause 9 above.
- iv) For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Government level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
- v) In addition to the payment of water charges referred to above the Company shall also pay to the Government local funds cess at the rate of 20 paise per every rupee of basic water charges.
- vi) Water bills - The monthly bill for the period from July to May (for 11 Months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of June (12th month) shall be prepared by taking review of annual sanctioned demand and the terms and conditions of the agreement and then shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The water lifted in excess up to 15% of sanctioned demand shall be charged at single rate and excess above 15% (without prior permission) will be charged at penal rate 1.50 times of the normal rate, as mentioned in the relevant clause. However the local cess shall be charged on single rate only.

- 12) (a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the monthly demand by the user from the Executive Engineer. On default, of the user to shall pay the water rate or local fund cess as aforesaid vide clause 9 and 11, the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause No 9.



[Handwritten signature]

Executive Engineer,
Aajgar Irrigation Division,
Kolad.

- (b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/firm/individual water users shall first, pay the complete amount of the bill and then claim for the refund of any excess bill charged giving the reasons / justification of wrong billing. However the decision of Superintending Engineer, Thane Irrigation Circle, and Thane in this regards shall be final and binding on the company and no further claim in any just will be made by the user.
- 13) The Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and Company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time and any clause entered in this agreement is subjected to change as per the notification by Government of Maharashtra.
- 14) The user shall not discharge the effluent in any nalla or river and shall not pollute directly or indirectly any portion of the said nalla / river even by septic tank effluents. If any water sources are polluted by any industry as identified by irrigation / pollution control board/MIDC/MJP the Company shall be charged with a penalty as per the Notification by Government of Maharashtra issues of prevalent times. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the Company.
- The company undertaking to recycle the effluent water for their use such as gardening, recreation, cooling cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.
- 15) The effluent disposal arrangement made by the company/ industry shall be got approved by the Company from the Maharashtra Pollution Control Board/ Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source and shall submit the same to the Executive Engineer without which the user will not be allowed to draw the water.
- 16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the Company & shall not be stopped or checked for any security reason at any time.



Executive Engineer
Rajad Irrigation Division
Kolar

- 17) Any notice or other document to be given to or served upon the Company may be given or served on behalf of the Government by the **Executive Engineer, Raigad Irrigation Division, Kolad** and any notice or document shall be deemed to have been duly given to or served upon the Company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 18) The said sum of **Rs.59,05,000/- (Rupees Fifty Nine Lakh Five Thousand only)** deposited in the form of bank guarantee/FDR/Demand Draft by the company with the **Executive Engineer, Raigad Irrigation Division, Kolad** to the Government as aforesaid shall be held by the Government as security deposit for the due observance and performance by the Company of the covenants, terms and conditions herein contained. In case of defaults on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the Company under these presents for such breach and the Company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of **Rs.59,05,000/- (Rupees Fifty Nine Lakh Five Thousand only)** or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the Company after the made of this agreement. The company must submit the fresh Bank Guarantee / FDR/Demand Draft of any such amount required for renewal of this agreement first & then this security deposit of **Rs.59,05,000/- (Rupees Fifty Nine Lakh Five Thousand only)** will be refunded.
- 19) All amounts due to the Government by the Company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the Company as arrears of land revenue.
- 20) On the expiry of the term of this agreement, the Government may renew this agreement within 90 days for such further period and on such terms and conditions, as the Government may at its absolute discretion deem fit.



Executive Engineer
Raigad Irrigation Division
Kolad

- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by Company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the Company from the Industries Department.
- 23) The agreement supersedes all the previous agreements entered into by the user with the Government in connection with the supply of water from Amba River.
- 24) The Company should submit their water indent for every rotation to the **Executive Engineer, Raigad Irrigation, Division Kolad** on or before starting of the rotation. Where the source is located on canal, the Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 25) The Company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the Company will have to make an alternative arrangement for its water requirement at its own cost & Irrigation department is not liable for any damages incurred to company due to non-supply of water.
- 26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY UNILATERALLY
- 27) The Govt. hereby reserves to itself its right to change, amend, modify, cancel, revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.



Executive Engineer,
Raigad Irrigation Division,
Kolad

IN WITNESS WHEREOF THE Common Seal of **M/S AMBA RIVER COCK LTD** has been hereto affixed AND the Executive Engineer, Raigad Irrigation Division, Kolad has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of this office the day and year first herein above written. THE COMMON SEAL OF **M/S AMBA RIVER COCK LTD** was pursuant to a resolution of the Board of Directors of the company dated . . . 2022.

Hereto affixed in the presence of

1) _____

2) _____

two Directors of the company who in token thereof have here to set their respective hands in the presence of-


1) _____

2) _____



SIGNED, SEALED AND DELIVERED by the **Executive Engineer, Raigad Irrigation Division, Kolad** for and on behalf of the Governor of Maharashtra

In the presence of

1) Nikita O. Pimple 

2) _____


Executive Engineer,
Raigad Irrigation Division,
Kolad



महाराष्ट्र शासन

जलसंपदा विभाग

कार्यकारी अभियंता,
रायगड पाटबंधारे विभाग, कोलाड
ता.रोहा, जि.रायगड

बिगरसिंचन करारनामा

जे एस् डब्लू स्टिल, लि. डोलवी, ता. पेण, जि. रायगड.

अंबा नदीवरील नागोठणे बंधा-यामधून

(घरगुती / पिण्यासाठी) ९.०० दलली/ दिन

करारनामा कालावधी

दि.०१/०७/२०२१ ते दि.३०/०६/२०२७

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग, कोलाड, ता.रोहा, जि.रायगड, पिन नं.४०२ ३०४.

दूरध्वनी क्र.०२९९४ - २५०८५७/२५०८८४. फॅक्स - ०२९९४ - २५०८५७

Email ID:- eerld28@gmail.com, eerld@rediffmail.com

Please visit to www.wrd.maharashtra.gov.in

आ.क्र.रापावि/प्रशा-१/२०६५/२०२१

दिनांक-१६/५/२०२१.

प्रति,

व्यवस्थापक,

जे एस् डब्ल्यू स्टिल, लि. डोलवी,

ता. पेण, जि. रायगड.

विषय मे. जे एस् डब्ल्यू स्टिल, लि. डोलवी, ता. पेण, जि. रायगड या कंपनीस अंदा नदीवरील नागोठणे बंधा-यामधून ९.०० दलली/ दिन बिगरसिंचन पाणी वापराचा करारनामा करण्याबाबत.

संदर्भ १. मु.अ. जलसंपदा विभाग, कांकरण प्रदेश, मुंबई कार्यालयाचे पत्र क्र मुअ/कोप्र./ ता.८/ JSW-३२६/१०२२ दि.०९/०३/२०२१.
२. या कार्यालयाचे पत्र क्र.प्रशा-१/१३९३/२०२१ दि.३०/०३/२०२१.

उपरोक्त विषयान्वय व वरील संदर्भित पत्र मा. मु.अ.जलसंपदा विभाग, कांकरण प्रदेश, मुंबई यांचे कडून आपल्या संस्थेस अंदा नदीवरील नागोठणे बंधा-यामधून ९.०० दलली/ दिन ४४ गावाना पाणीपुरवठा करण्यासाठी बिगरसिंचन पाणी वापराची परवानगी देण्यात आलेली आहे. सदरचा करारनामा हा दि.०१/०७/२०२१ ते दि.३०/०६/२०२७ या कालावधीसाठी करण्यात येत आहे. सदरचे पाणी आरक्षण हे खालील दर्शविल्या प्रमाणे आहे.

JSW स्टिल, लि. डोलवी, ता. पेण, जि. रायगड

संस्थेचे नाव	मुल्ल संजूर पाणी मागणी (दलली)			
	औदयोगिक	घरगुती	गार्डनिंग	एकूण
JSW स्टिल, ग्रामीण पाणी पुरवठा	०.००	९.००	०.००	९.००

प्रस्तुत पाणी वापरासाठीचा दि.०१/०७/२०२१ ते दि.३०/०६/२०२७ या कालावधीचा सहा वर्षासाठी करारनामा करण्यात येत आहे. प्रस्तुत वरील संदर्भित पत्र क्र.१ मधील व करारनामातील शर्ती व अटींचे अनुपालन करणे आपले उदयोग संस्थेवर बंधनकारक आहे.

सोबत - मुल्ल करारनामा
छायांकित प्रत

(इ.जि. राकेश स. धाकतोडे)

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग कोलाड

प्रत- उपविभागीय अभियंता, पाटबंधारे उपविभाग, माणगांव यांना माहितीसाठी व कार्यवाहीसाठी रवाना.

प्रत- विभागीय सिंचन शाखा यांना माहितीसाठी



महाराष्ट्र MAHARASHTRA

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AN 439711

मुद्रक विली मोदकी अनु. क्रमांक 235/2 दिनांक 03/04/21

व्यक्ति का नाम: मोदी

जन्म तिथि का ? जय / माह

जो K.V. Steel Limited के लिए

दीर्घ रिसर्च.

गोपनीयता का ?

दस्तावेज का ?

मुद्रक का ?

Sub Treasury Officer
Pen-Raigad

15 APR 2021

AGREEMENT**(For Non - Irrigation water supply)**श्री. मोदी, जयपुरम
मु. 235/2 दिनांक 03/04/21
क्रमांक 11996

AN AGREEMENT Made on made on Dt.

for the

period of 01/07/2021 to 30/06/2027 BETWEEN M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD (which expression shall, unless excluded by or it be repugnant to the context or meaning there of be deemed to include it successors and assigns) registered under the Indian Companies Act, 1913 (vii of 1913), and having its registered office at JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400 051 hereinafter referred to as "The Company" of the one part;



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

AND THE GOVERNOR OF MAHARASHTRA (hereinafter referred to as "The Government (which expression shall unless excluded by or it be repugnant to the context or meaning thereof, be deemed to include its successors and assigns) of the other part;

WHEREAS the company is desirous of constructing a pumping station on the company's land at **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** for drawing water from the source of **Amba River** (here in after referred to as "the said source") for the use by the Company's plant located in Dolvi (here in after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND WHEREAS the Company has applied to the Government for permission to draw **9.00 million liters of water per day** from the said source AND whereas the company has paid Rs.Nil (Rupees Nil) to Government towards the proportional cost of capital outlay of the project.

AND WHEREAS the Government has agreed to grant the aforesaid permission to the company on the terms and conditions Vide Chief Engineer, Kankan Region Mumbai letter no Marathi Letter मुअ/जसविकोप्र/८/जेएसडब्ल्यू-३२६/१०२२, दि.०९/०३/२०२१.

AND WHEREAS the Company has to deposit with the Executive Engineer Raigad Irrigation, Division Kolad a sum of **Rs.2,37,168/- (Rupees Two Lakh Thirty Seven Thousand One Hundred Sixty Eight only)** as security equivalent to two months company's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of ~~Demand Draft/Fix Deposit receipt or a~~ **bank guarantee** issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the Company of the terms and conditions of this Agreement.

AND WHEREAS the company has accordingly, prior to the execution of these presents, deposited with the Government a sum **Rs.2,37,168/- (Rupees Two Lakh Thirty Seven Thousand One Hundred Sixty Eight only)** as security for the due observance and performance by the Company of the terms and conditions herein contained. AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash. (Bank Guarantee Receipt No.1637621BG0000165, Dt.29/04/2021)



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Executive Engineer
Raigad Irrigation Division
Kolad, Tal.Roha-Raigad

Definitions :-

Quota :- Quota means daily demand sanctioned and communicated to **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** by the Executive Engineer.

Corporation:- Corporation means the River basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathawada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC). & Vidharbha Irrigation Development Corporation (VIDC), Municipal corporations, Municipalities etc.

MIDC :- MIDC means Maharashtra Industrial Development Corporation.

MJP:- MJP means Maharashtra Jeevan Pradhikaran.

Yearly applicable demand:- Yearly applicable demand means the water demand communicated by the USER for the period from 1st November to 31st October to the Executive Engineer & sanctioned by Irrigation Department every year in the month of September along with its bifurcation for Industrial domestic and agricultural use.

USER: - USER means water using agency like individual company, Industrial Entrepreneurs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:-

- 1) (a) In consideration of the Company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained, the Government do hereby grant to the Company permission to draw following quota of water for the specified purpose

Sr. No.	Description/Use	Quantity in MLD (Million Liters Per Day)
1	Total sanctioned quota	9.00/Day
2	For Domestic use	9.00/Day

and use the same for the purpose of the Company's said plant or project, for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 1 Day of on the following terms and conditions:

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases wherein the water used for Domestic/Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Rona-Raigad

- (c) The industrial water requirement, the domestic water requirement and the agricultural (nursery/gardening) water requirement of the Company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.
- 2) The Renewal permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revisions, if any, in force and any executive orders issued in this behalf by the Government and any statutory amendment thereof from time to time and for the time being in force.
- 3) Nothing herein contained shall be deemed to imply any guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and the Government shall not be responsible for the non-supply or inadequate supply of water on any account whatsoever. However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department bill shall be charged as per actual quantity of water lifted/supplied during such period.
- 4) The Company shall use the water drawn from the said **Nagothane K.T.Weir (Amba river)** for purposes of the Company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies.") The Company shall not sale the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. The Government shall also be entitled to recover from the Company the proceeds of any such sale made by the Company.
- 5) The Government shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the Company as to which matter the decision of the Government shall be final and binding on the Company, for such purpose as the Government deems fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to hereafter launch or implement in public interest any new schemes or schemes on its own, on or in connection with the present source of channel of water supply available to the Company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.




Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 7) The company shall not construct the pick-up weir in the **Nagothane K.T.Weir (Amba river)** bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the Company, the Company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer install for all uses mentioned in clause no. 1 of this agreement independent pipeline fitted with separate electronics water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer). All the pipeline layout showing locations of the metering equipment from the said source for different purposes shall be got jointly verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the Company failing to install the meter, during such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. for the event of the company in falls the water meter but fails to keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid, the Company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8(d) I & II appearing hereinafter.

The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The Company shall, at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the last day of each month or at agreed times, jointly by the Authorized representatives of the Executive Engineer and of the Company. Authorized representative of Executive



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Raigad

Engineer shall not be stopped by the company on the gate and shall not be checked for security propose and shall be allowed to inspect company premises at any time failing which the company is liable for cancellation of quota allotted. Decision of Executive Engineer in such case will be binding on company.

- (c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the Company. If on such testing the said electronic measuring devices are found to be defective, the Company shall forthwith get the same repaired and set right at its own cost and in the event of the Company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the Company.
- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the Company during the period when the meter was defective and not working shall be ascertained in the following manner:
- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the sanctioned demand as communicated in clause No. 11 quantity or average for the last six months whichever is higher.
- (ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the sanctioned demand as communicated in clause No.11 or average the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the Company that cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

- (iii) If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be levied as per the rates specified for the industrial use for the total quota as referred to in clause 1 (a) of this agreement.



Executive Engineer
Raigarh Irrigation Division
Kolat, Tal. Raha-Raigarh

- 9) Billing should be done on monthly basis. The bill for the water drawn by the Company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the Company within 15 days after the end of the water consumption month. The Company shall thereafter duly pay the same by a demand draft drawn in the name of the **Executive Engineer, Raigad Irrigation Division Kolad** for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge as stipulated by Government of Maharashtra will be charged. If the delay in payment of water charges exceeds six months the Irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.
- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the Company.
- 11) Subject to the provisions of clause (8) hereof, the Company shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges said electronic measuring devices at the following rates, namely:-

Rate in Rs. Per 10,000 Liters i.e. (1 unit)

Use	Sanctioned Quota	From 11.01.2018 Onwards
Industrial	--	The above rates are as per the Governor Resolution No. MWERRA Order No.1/2018 dated 11 th January, 2018 Or any other rate notified by Government of Maharashtra.
Domestic	9.00 MLD	
Horticulture	---	

The Water lifted by the user during rainy season from the river where irrigation department has not released the water is chargeable as per the rates decided by Government of Maharashtra and no concession will be fought by user on such lifted water. User is fully aware of the category allotted to user by Executive Engineer for the purpose of drawing water from **Nagothane K.T.Weir (Amba River)** and no such claim or the dispute will be raised by the user. The decision of Executive Engineer will be binding on the user in this matter.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal.Rona-Raigad

- i) If in any month the quantity of water drawn by the Company is less than 90 per cent of the quantity of water specified in clause (1) hereof then the company shall pay to the Government water charges as per the Government of Maharashtra Notification.
- ii) For any unforeseen reasons, if the Company would like to reduce / increase the demand of water entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of July. On acceptance of such revised demand the Company will be charged as per changed demand for the period specified, other conditions remaining same. A supplementary agreement on Rs.100/- stamp paper for this changed quantity which will form part of main agreement.
- iii) No penal rate will be levied for the quantity limited to 15% in excess of the sanctioned one. For quantity used in excess of this 15% without prior sanction a penal rate as per Government of Maharashtra Notification will be charged over the basic rate. The delay in payment on account of this also will be governed by clause 9 above. 4
15%
- iv) For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Government level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
- v) In addition to the payment of water charges referred to above the Company shall also pay to the Government local funds cess at the rate of 20 paise per every rupee of basic water charges.
- vi) Water bills - The monthly bill for the period from July to May (for 11 Months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of June (12th month) shall be prepared by taking review of annual sanctioned demand and the terms and conditions of the agreement and then shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The water lifted in excess up to 15% of sanctioned demand shall be charged at single rate and excess above 15% (without prior permission) will be charged at penal rate 1.50 times of the normal rate, as mentioned in the relevant clause, However the local cess shall be charged on single rate only.



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Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 12) (a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the monthly demand by the user from the Executive Engineer. On default, of the user to shall pay the water rate or local fund cess as aforesaid vide clause 9 and 11, the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause No 9.
- (b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/firm/individual water users shall first pay the complete amount of the bill and then claim for the refund of any excess bill charged giving the reasons / justification of wrong billing. However the decision of Superintending Engineer, Thane Irrigation Circle, and Thane in this regards shall be final and binding on the company and no further claim in any just will be made by the user.
- 13) The Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and Company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time and any clause entered in this agreement is subjected to change as per the notification by Government of Maharashtra.
- 14) The user shall not discharge the effluent in any nalla or river and shall not pollute directly or indirectly any portion of the said nalla / river even by septic tank effluents. If any water sources are polluted by any industry as identified by irrigation / pollution control board/MIDC/MJP the Company shall be charged with a penalty as per the Notification by Government of Maharashtra issues of prevalent times. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the Company.

The company undertaking to recycle the effluent water for their use such as gardening, recreation, cooling cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.

- 15) The effluent disposal arrangement made by the company/ industry shall be got approved by the Company from the Maharashtra Pollution Control Board/ Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source and shall submit the same to the Executive Engineer without which the user will not be allowed to draw the water.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the Company & shall not be stopped or checked for any security reason at any time.
- 17) Any notice or other document to be given to or served upon the Company may be given or served on behalf of the Government by the **Executive Engineer, Raigad Irrigation Division, Kolad** and any notice or document shall be deemed to have been duly given to or served upon the Company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 18) The said sum of **Rs.2,37,168/- (Rupees Two Lakh Thirty Seven Thousand One Hundred Sixty Eight only)** deposited in the form of bank guarantee/~~FDR/ Demand Draft~~ by the company with the **Executive Engineer, Raigad Irrigation Division, Kolad** to the Government as aforesaid shall be held by the Government as security deposit for the due observance and performance by the Company of the covenants, terms and conditions herein contained. In case of defaults on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the Company under these presents for such breach and the Company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of **Rs.2,37,168/- (Rupees Two Lakh Thirty Seven Thousand One Hundred Sixty Eight only)** or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the Company after the made of this agreement The company must submit the fresh **Bank Guarantee + ~~FDR/Demand Draft~~** of any such amount required for renewal of this agreement first & then this security deposit of **Rs.2,37,168/- (Rupees Two Lakh Thirty Seven Thousand One Hundred Sixty Eight only)** will be refunded.
- 19) All amounts due to the Government by the Company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the Company as arrears of land revenue.




Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Raha-Raigad

- 20) On the expiry of the term of this agreement, the Government may renew this agreement within 90 days for such further period and on such terms and conditions, as the Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by Company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the Company from the Industries Department.
- 23) The agreement supersedes all the previous agreements entered into by the user with the Government in connection with the supply of water from Nagothane K.T.Weir (Amba River).
- 24) The Company should submit their water indent for every rotation to the **Executive Engineer, Raigad Irrigation, Division Kolad** on or before starting of the rotation. Where the source is located on canal, the Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 25) The Company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the Company will have to make an alternative arrangement for its water requirement at its own cost & irrigation department is not liable for any damages incurred to company due to non-supply of water.
- 26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY UNILATERALLY.


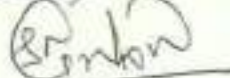


Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 27) The Govt. hereby reserves to itself its right to change, amend, modify, cancel, revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** has been hereunto affixed AND the Executive Engineer, Raigad Irrigation Division, Kolad has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of this office the day and year first herein above written. THE COMMON SEAL OF _____ was pursuant to a resolution of the Board of Directors of the company dated . . . 2021.

Hereto affixed in the presence of

- 1) Vinay V Nene . 
2) Suresh Jagtap 


two Directors of the company who in token thereof have here to set their respective hands in the presence of-

- 1) Narayan Bolbunda
2) _____



SIGNED, SEALED AND DELIVERED by the **Executive Engineer, Raigad Irrigation Division, Kolad** for and on behalf of the Governor of Maharashtra

In the presence of

- 1) Nikita P. Hajare 
2) _____




Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Rona-Raigad



महाराष्ट्र शासन

जलसंपदा विभाग

कार्यकारी अभियंता,
रायगड पाटबंधारे विभाग, कोलाड
ता.रोहा, जि.रायगड

बिगरसिंचन करारनामा

जे एस् डब्लू स्टिल, लि. डोलवी,
ता. पेण, जि. रायगड.

अंबा नदीवरील नागोठणे बंधा-यामधून
(औद्योगिक) ३५.७० दलली/ दिन

करारनामा कालावधी

दि.०१/०७/२०२१ ते दि.३०/०६/२०२७

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग, कोलाड, ता.रोहा, जि.रायगड, पिन नं.४०२ ३०४.

दूरध्वनी क्र.०२१९४ - २५०८५७/२५०८८४, फॅक्स - ०२१९४ - २५०८५७

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Please visit to www.wrd.maharashtra.gov.in

जा.क्र.रासावि/प्रसा-१/२०६६/२०२१

दिनांक-१६/०५/२०२१.

प्रति,

व्यवस्थापक,
जे एस् डब्लू स्टिल, लि. डोलवी,
ता. पेण, जि. रायगड.

विषय ये, जे एस् डब्लू स्टिल, लि. डोलवी, ता. पेण, जि. रायगड या कंपनीस अंदा नदीवरील नागोठणे बंधा-यामधून ३५.७० दलली/ दिन विगरसिंचन पाणी वापरासाठी करारनामा करणेबाबत.

संदर्भ: १. मु.अ. जलसंपदा विभाग, कोकण प्रदेश, मुंबई कार्यालयाचे पत्र क्र. मुअ/कोप्र./ तां./ Jsw-३२६/१०२२ दि.०९/०३/२०२१.
२. या कार्यालयाचे पत्र क्र.प्रसा-१/१३९३/२०२१ दि.३०/०३/२०२१.

उपरोक्त दिव्यान्वय व वरील संदर्भित पत्र क्र.१ मा. मु.अ.जलसंपदा विभाग, कोकण प्रदेश, मुंबई यांचे कडून आपल्या संस्थेस अंदा नदीवरील नागोठणे बंधा-यामधून ३५.७० दलली/ दिन विगरसिंचन पाणी वापराची परवानगी देण्यात आलेली आहे. सदरचे पाणी आरक्षण हे संदर्भित पत्र क्र.१ अन्वये Jsw स्टिल लि, साळाव या कंपनीचे ४०.०० दलली/ दिन पेकी ३५.७० दलली/ दिन प्रग करण्यात आलेले आहे. सदरची परवानगी ही तात्पुरती स्वरूपाची असल्याने सदरचा करारनामा हा दि.०९/०४/२०२१ ते दि.३०/०६/२०२१ या कालावधीसाठी करण्यात येत आहे. सदरचे पाणी आरक्षण हे खालील दर्शयित्या प्रमाणे आहे.

Jsw स्टिल, लि. डोलवी, ता.पेण, जि. रायगड

संस्थेचे नाव	मूळ मंजूर पाणी वागणी (दलली)			
	औद्योगिक	घरगुती	गार्डनिंग	एकूण
Jsw स्टिल, डोलवी	३५.७०	०.०००	०.००	३५.७०

प्रस्तुत पाणी वापरासाठीचा दि.०९/०४/२०२१ ते दि.३०/०६/२०२१ या कालावधीचा सहा वर्षासाठी करारनामा करण्यात येत आहे. प्रस्तुत वरील संदर्भित पत्र क्र.१ मधील व करारनाम्यातील शर्ती व अटींचे अनुपालन करणे आपले उदयोग संस्थेवर बंधनकारक आहे.

सोबत - मूळ करारनामा
मह्यांकित प्रत

(इंजि. राकेश ए. धाकतोडे)

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग कोलाड

प्रत- उपविभागीय अभियंता, पाटबंधारे उपविभाग, माणगांव यांना माहितीसाठी व कार्यवाहीसाठी स्वाना.

प्रत- विभागीय सिंचन शाखा यांना माहितीसाठी



महाराष्ट्र MAHARASHTRA

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AN 439712

मुद्राक विहीन नगरी वस्तु क्रमांक 225/2 दिनांक 03/5/21

वसनाया प्रकार माला

ज. नं. 100/100 का ? हाय / नाही

ज. नं. 100/100 का ? हाय / नाही

ज. नं. 100/100 का ? हाय / नाही

ज. नं. 100/100 का ? हाय / नाही

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ज. नं. 100/100 का ? हाय / नाही

ज. नं. 100/100 का ? हाय / नाही



Sub Treasury Office

Pen-Raigad

15 APR 2021

AGREEMENT**(For Non-Irrigation water supply)**

मुद्राक विहीन नगरी वस्तु क्रमांक 225/2 दिनांक 03/5/21

AN AGREEMENT Made on made on Dt.

for the

period of 01/07/2021 to 30/06/2027 BETWEEN M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD (which expression shall, unless excluded by or it be repugnant to the context or meaning there of be deemed to include it successors and assigns) registered under the Indian Companies Act, 1913 (vii of 1913), and having its registered office at JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400 051 hereinafter referred to as "The Company" of the one part;



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

AND THE GOVERNOR OF MAHARASHTRA (hereinafter referred to as "The Government (which expression shall unless excluded by or it be repugnant to the context or meaning thereof, be deemed to include its successors and assigns) of the other part;

WHEREAS the company is desirous of constructing a pumping station on the company's land at **M/S JSW STEEL DOLVI, TALUKA PRN, DISTRICT RAIGAD** for drawing water from the source of **Amha River** (here in after referred to as "the said source") for the use by the Company's plant located in **Dolvi** (here in after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND WHEREAS the Company has applied to the Government for permission to draw **35.70 million liters of water per day** from the said source AND whereas the company has paid **Rs.Nil (Rupees Nil)** to Government towards the proportional cost of capital outlay of the project.

AND WHEREAS the Government has agreed to grant the aforesaid permission to the company on the terms and conditions Vide Chief Engineer, Kokan Region Mumbai letter no Marathi Letter मुअ/जसविकोप्र/८/जेएसडब्ल्यू-३२६/१०२२, दि.०९/०३/२०२१.

AND WHEREAS the Company has to deposit with the Executive Engineer Raigad Irrigation, Division Kolad a sum of **Rs.3,01,04,525/- (Rupees Three Crore One Lakh Four Thousand Five Hundred Twenty Five only)** as security equivalent to two months company's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of ~~Demand Draft/Fix Deposit receipt or a~~ **bank guarantee** issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the Company of the terms and conditions of this Agreement.

AND WHEREAS the company has accordingly, prior to the execution of these presents, deposited with the Government a sum **Rs.3,01,04,525/- (Rupees Three Crore One Lakh Four Thousand Five Hundred Twenty Five only)** as security for the due observance and performance by the Company of the terms and conditions herein contained. AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash. **(Bank Guarantee Receipt No.1637621BG0000165, Dt.29/04/2021)**




Executive Engineer
Raigad Irrigation Division
Kolad, Tal.Roha-Raigad

Definitions :-

Quota :- Quota means daily demand sanctioned and communicated to **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** by the Executive Engineer.

Corporation:- Corporation means the River basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathawada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC), & Vidharbha Irrigation Development Corporation (VIDC), Municipal corporations, Municipalities etc.

MIDC :- MIDC means Maharashtra Industrial Development Corporation.

MJP:- MJP means Maharashtra Jeevan Pradhikaran.

Yearly applicable demand:- Yearly applicable demand means the water demand communicated by the USER for the period from 1st November to 31st October to the Executive Engineer & sanctioned by Irrigation Department every year in the month of September along with its bifurcation for Industrial domestic and agricultural use.

USER: - USER means water using agency like individual company, Industrial Entrepreneurs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:-

- 1) (a) In consideration of the Company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained, the Government do hereby grant to the Company permission to draw following quota of water for the specified purpose

Sr. No.	Description/Use	Quantity in MLD (Million Liters Per Day)
1	Total sanctioned quota	35.70/Day
2	For other than water as raw material industrial use	35.70/Day

and use the same for the purpose of the Company's said plant or project, for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 1 Day of _____ on the following terms and conditions:

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases wherein the water used for Domestic/Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- (c) The industrial water requirement, the domestic water requirement and the agricultural (nursery/gardening) water requirement of the Company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.
- 2) The Renewal permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revisions, if any, in force and any executive orders issued in this behalf by the Government and any statutory amendment thereof from time to time and for the time being in force.
- 3) Nothing herein contained shall be deemed to imply any guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and the Government shall not be responsible for the non-supply or inadequate supply of water on any account whatsoever. However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department bill shall be charged as per actual quantity of water lifted/supplied during such period.
- 4) The Company shall use the water drawn from the said **Nagothane K.T.Weir (Amba river)** for purposes of the Company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies.") The Company shall not sale the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. The Government shall also be entitled to recover from the Company the proceeds of any such sale made by the Company.
- 5) The Government shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the Company as to which matter the decision of the Government shall be final and binding on the Company, for such purpose as the Government deems fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to hereafter launch or implement in public interest any new schemes or schemes on its own, on or in connection with the present source of channel of water supply available to the Company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 7) The company shall not construct the pick-up weir in the **Nagothane K.T.Weir (Anaba river)** bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the Company, the Company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer install for all uses mentioned in clause no. 1 of this agreement independent pipeline fitted with separate electronics water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer). All the pipeline layout showing locations of the metering equipment from the said source for different purposes shall be got jointly verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the Company failing to install the meter, during such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. for the event of the company in falls the water meter but fails to keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid, the Company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8(d) I & II appearing hereinafter.

The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The Company shall, at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the last day of each month or at agreed times, jointly by the Authorized representatives of the Executive Engineer and of the Company. Authorized representative of Executive



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Raha-Raigad

Engineer shall not be stopped by the company on the gate and shall not be checked for security propose and shall be allowed to inspect company premises at any time failing which the company is liable for cancellation of quota allotted. Decision of Executive Engineer in such case will be binding on company.

- (c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the Company. If on such testing the said electronic measuring devices are found to be defective, the Company shall forthwith get the same repaired and set right at its own cost and in the event of the Company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the Company.
- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the Company during the period when the meter was defective and not working shall be ascertained in the following manner:
- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the sanctioned demand as communicated in clause No. 11 quantity or average for the last six months whichever is higher.
- (ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the sanctioned demand as communicated in clause No.11 or average the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the Company that cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

- (iii) If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be levied as per the rates specified for the industrial use for the total quota as referred to in clause 1 (a) of this agreement.




Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 9) Billing should be done on monthly basis. The bill for the water drawn by the Company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the Company within 15 days after the end of the water consumption month. The Company shall thereafter duly pay the same by a demand draft drawn in the name of the **Executive Engineer, Raigad Irrigation Division Kolad** for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge as stipulated by Government of Maharashtra will be charged. If the delay in payment of water charges exceeds six months the Irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.
- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the Company.
- 11) Subject to the provisions of clause (8) hereof, the Company shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges said electronic measuring devices at the following rates, namely:-

Rate in Rs. Per 10,000 Liters i.e. (1 unit)

Use	Sanctioned Quota	From 11.01.2018 Onwards
Industrial	35.70 MLD	The above rates are as per the Governor Resolution No. MWRRA Order No.1/2018 dated 11 th January, 2018 Or any other rate notified by Government of Maharashtra.
Domestic	----	
Horticulture	----	

The Water lifted by the user during rainy season from the river where irrigation department has not released the water is chargeable as per the rates decided by Government of Maharashtra and no concession will be fought by user on such lifted water. User is fully aware of the category allotted to user by Executive Engineer for the purpose of drawing water from Nagothane K.T.Weir (Amba River) and no such claim or the dispute will be raised by the user. The decision of Executive Engineer will be binding on the user in this matter.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal.Roha-Raigad

- i) If in any month the quantity of water drawn by the Company is less than 90 per cent of the quantity of water specified in clause (1) hereof then the company shall pay to the Government water charges as per the Government of Maharashtra Notification.
- ii) For any unforeseen reasons, if the Company would like to reduce / increase the demand of water entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of July. On acceptance of such revised demand the Company will be charged as per changed demand for the period specified, other conditions remaining same. A supplementary agreement on Rs.100/- stamp paper for this changed quantity which will form part of main agreement.
- iii) No penal rate will be levied for the quantity limited to 15 % in excess of the sanctioned one. For quantity used in excess of this 16 % without prior sanction a penal rate as per Government of Maharashtra Notification will be charged over the basic rate. The delay in payment on account of this also will be governed by clause 9 above. 15%
- iv) For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Government level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
- v) In addition to the payment of water charges referred to above the Company shall also pay to the Government local funds cess at the rate of 20 paise per every rupee of basic water charges.
- vi) Water bills - The monthly bill for the period from July to May (for 11 Months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of June (12th month) shall be prepared by taking review of annual sanctioned demand and the items and conditions of the agreement and then shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The water lifted in excess up to 15% of sanctioned demand shall be charged at single rate and excess above 15% (without prior permission) will be charged at penal rate 1.50 times of the normal rate, as mentioned in the relevant clause, However the local cess shall be charged on single rate only.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Raigad - Raigad

- 12) (a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the monthly demand by the user from the Executive Engineer. On default, of the user to shall pay the water rate or local fund cess as aforesaid vide clause 9 and 11, the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause No 9.
- (b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/firm/individual water users shall first pay the complete amount of the bill and then claim for the refund of any excess bill charged giving the reasons / justification of wrong billing. However the decision of Superintending Engineer, Thane Irrigation Circle, and Thane in this regards shall be final and binding on the company and no further claim in any just will be made by the user.
- 13) The Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and Company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time and any clause entered in this agreement is subjected to change as per the notification by Government of Maharashtra.
- 14) The user shall not discharge the effluent in any nalla or river and shall not pollute directly or indirectly any portion of the said nalla / river even by septic tank effluents. If any water sources are polluted by any industry as identified by irrigation / pollution control board/MIDC/MJP the Company shall be charged with a penalty as per the Notification by Government of Maharashtra issues of prevalent times. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the Company.
- The company undertaking to recycle the effluent water for their use such as gardening, recreation, cooling cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.
- 15) The effluent disposal arrangement made by the company/ industry shall be got approved by the Company from the Maharashtra Pollution Control Board/ Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source and shall submit the same to the Executive Engineer without which the user will not be allowed to draw the water.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the Company & shall not be stopped or checked for any security reason at any time.
- 17) Any notice or other document to be given to or served upon the Company may be given or served on behalf of the Government by the Executive Engineer, Raigad Irrigation Division, Kolad and any notice or document shall be deemed to have been duly given to or served upon the Company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 18) The said sum of **Rs.3,01,04,525/- (Rupees Three Crore One Lakh Four Thousand Five Hundred Twenty Five only)** deposited in the form of bank guarantee/~~FDR/ Demand Draft~~ by the company with the **Executive Engineer, Raigad Irrigation Division, Kolad** to the Government as aforesaid shall be held by the Government as security deposit for the due observance and performance by the Company of the covenants, terms and conditions herein contained. In case of defaults on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the Company under these presents for such breach and the Company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of **Rs.3,01,04,525/- (Rupees Three Crore One Lakh Four Thousand Five Hundred Twenty Five only)** or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the Company after the made of this agreement The company must submit the fresh **Bank Guarantee + ~~FDR/Demand Draft~~** of any such amount required for renewal of this agreement first & then this security deposit of **Rs.3,01,04,525/- (Rupees Three Crore One Lakh Four Thousand Five Hundred Twenty Five only)** will be refunded.
- 19) All amounts due to the Government by the Company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the Company as arrears of land revenue.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Rota-Raigad

- 20) On the expiry of the term of this agreement, the Government may renew this agreement within 90 days for such further period and on such terms and conditions, as the Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by Company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the Company from the Industries Department.
- 23) The agreement supersedes all the previous agreements entered into by the user with the Government in connection with the supply of water from Nagothane K.T. Weir (Amba River).
- 24) The Company should submit their water indent for every rotation to the Executive Engineer, Raigad Irrigation, Division Kolad on or before starting of the rotation. Where the source is located on canal, the Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 25) The Company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the Company will have to make an alternative arrangement for its water requirement at its own cost & Irrigation department is not liable for any damages incurred to company due to non-supply of water.
- 26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY UNILATERALLY.



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Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 27) The Govt. hereby reserves to itself its right to change, amend, modify, cancel, revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** has been hereunto affixed AND the **Executive Engineer, Raigad Irrigation Division, Kolad** has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of this office the day and year first herein above written. THE COMMON SEAL OF _____ was pursuant to a resolution of the Board of Directors of the company dated _____ 2021.

Hereto affixed in the presence of

- 1) Vinay V. Nene
2) Suresh Jagtap

[Handwritten signatures]

two Directors of the company who in token thereof have here to set their respective hands in the presence of:

- 1) Narayan Bolbunda
2) _____

[Handwritten signature]



SIGNED, SEALED AND DELIVERED by the **Executive Engineer, Raigad Irrigation Division, Kolad** for and on behalf of the Governor of Maharashtra *

In the presence of

- 1) Nikita P. Hajare,
2) _____

[Handwritten signature]



[Handwritten signature]

Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad



महाराष्ट्र शासन

जलसंपदा विभाग

कार्यकारी अभियंता,
रायगड पाटबंधारे विभाग, कोलाड
ता.रोहा, जि.रायगड

बिगरसिंचन करारनामा

जे एस् डब्लू स्टिल, लि. डोलवी,
ता. पेण, जि. रायगड.

अंबा नदीवरील नागोटणे बंधा-यामधून
(औदयोगिक/घरगुती/गार्डनिंग) ५५.१६ दलली/ दिन
करारनामा कालावधी

दि.०१/०७/२०२१ ते दि.३०/०६/२०२७

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग, कोलाड, ता.रोहा, जि.रायगड. पिन नं.४०२ ३०४.

दूरध्वनी क्र.०२१९४ - २५०८५७/२५०८८४. फॅक्स - ०२१९४ - २५०८५७

Email ID:- aerid28@gmail.com. aerid@rediffmail.com

Please visit to www.wrd.maharashtra.gov.in

जा.क्र.रापावि/प्रशा-१/२०७० / २०२१

दिनांक- १८/५ / २०२१

प्रति,

व्यवस्थापक,
जे एस् डब्ल्यू स्टिल, लि. डोलवी,
ता. पेण, जि. रायगड.

विषय मे. जे एस् डब्ल्यू स्टिल, लि. डोलवी, ता. पेण, जि. रायगड या कंपनीस अद्या नदीवरील नागोठणे बंधा-यामधून ५५.१६ दलली/ दिन विगरसिंचन पाणी वापराचा करारनामा करणेबाबत.

संदर्भ: १. मु.अ. जलसंपदा विभाग, कोकण प्रदेश, मुंबई कार्यालयामे पत्र क्र मुअ/कोप्र./ तां.८/ Jsw-३२६/१०२२ दि.०९/०३/२०२१.
२. या कार्यालयामे पत्र क्र.प्रशा-१/१३९३/२०२१ दि.३०/०३/२०२१.

उपरोक्त विषयान्वये व वरील संदर्भित पत्र मा. मु.अ.जलसंपदा विभाग, कोकण प्रदेश, मुंबई यांचे कडून आपल्या संस्थेस अंदा नदीवरील नागोठणे बंधा-यामधून ५५.१६ दलली/ दिन विगरसिंचन पाणी वापराची परवानगी देण्यात आलेली आहे. यापूर्वी आपल्या संस्थेस ४६.६६ दलली/ दिन विगरसिंचन पाणी वापरासाठी करण्यात आलेला करारनामा रद्द करून वाढीव पाणी मागणी ८.५० दलली/ दिन अशी एकूण ५५.१६ दलली/दिन विगरसिंचन पाणी वापराचा नवीन करारनामा करण्यात येत आहे. सदरचा करारनामा हा दि.०१/०४/२०२१ ते दि.३०/०६/२०२१ या कालावधीसाठी करण्यात येत आहे. सदरचे पाणी आरक्षण हे खालील दर्शविल्या प्रमाणे आहे.

Jsw स्टिल, लि. डोलवी ता.पेण जि. रायगड

संस्थेचे नाव	मूळ मंजूर पाणी मागणी (दलली)			
	औद्योगिक	घरगुती	गाडेनिंग	एकूण
Jsw स्टिल, डोलवी	५२.१६	२.००	१.००	५५.१६

प्रस्तुत पाणी वापरासाठीचा दि.०१/०४/२०२१ ते दि.३०/०६/२०२१ या कालावधीचा सहा वर्षासाठी करारनामा करण्यात येत आहे. प्रस्तुत वरील संदर्भित पत्र क्र.१ मधील व करारनाम्यातील शर्ती व अटींचे अनुपालन करणे आपले उद्योग संस्थेवर बंधनकारक आहे.

सोदत - मुळ करारनामा
छायांकित प्रत

(इंजि. राकेश र. धाकतोडे)

कार्यकारी अभियंता,

रायगड पाटबंधारे विभाग कोलाड

प्रत- उपविभागीय अभियंता, पाटबंधारे उपविभाग, माणगांव यांना माहितीसाठी व कार्यवाहीसाठी रवाना.

प्रत- विभागीय सिंचन शाखा यांना माहितीसाठी



महाराष्ट्र MAHARASHTRA

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AN 439710

मुद्रांक मिति: ०८/०७/२०२१, दिनांक: ०८/०७/२०२१

रजिस्ट्रार: १०२४

मुद्रांक का? हुय / नही

गलत है

मुद्रांक का? हुय / नही

मुद्रांक का? हुय / नही

मुद्रांक का? हुय / नही

मुद्रांक का? हुय / नही

मुद्रांक का? हुय / नही

AGREEMENT**(For Non-Irrigation water supply)**

मुद्रांक मिति: ०८/०७/२०२१, दिनांक: ०८/०७/२०२१

रजिस्ट्रार: १०२४

मुद्रांक का? हुय / नही

AN AGREEMENT Made on Dt.

for the period

of 01/07/2021 to 30/06/2027 BETWEEN M/s JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD (which expression shall, unless excluded by or it be repugnant to the context or meaning there of be deemed to include it successors and assigns) registered under the Indian Companies Act, 1913 (vii of 1913), and having its registered office at JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400 051 hereinafter referred to as "The Company" of the one part;



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

AND THE GOVERNOR OF MAHARASHTRA (hereinafter referred to as "The Government (which expression shall unless excluded by or it be repugnant to the context or meaning thereof, be deemed to include its successors and assigns) of the other part;

WHEREAS the company is desirous of constructing a pumping station on the company's land at **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** for drawing water from the source of **Amha River** (here in after referred to as "the said source") for the use by the Company's plant located in **Dolvi** (here in after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND WHEREAS the Company has applied to the Government for permission to draw **55.16 million liters of water per day** from the said source AND whereas the company has paid **Rs.Nil (Rupees Nil)** to Government towards the proportional cost of capital outlay of the project.

AND WHEREAS the Government has agreed to grant the aforesaid permission to the company on the terms and conditions Vide Chief Engineer, Kokan Region Mumbai letter no Marathi Letter मुअ/जसविकोप्र/८/जेएसडब्ल्यू-३२६/१०२२, दि.०९/०३/२०२१.

AND WHEREAS the Company has to deposit with the **Executive Engineer Raigad Irrigation, Division Kolad** a sum of **Rs.4,48,80,618/- (Rupees Four Crore Forty Eight Lakh Eighty Thousand Six Hundred Eighteen only)** as security equivalent to two months company's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of ~~Demand Draft/Fix Deposit receipt or a bank guarantee~~ issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the Company of the terms and conditions of this Agreement.

AND WHEREAS the company has accordingly, prior to the execution of these presents, deposited with the Government a sum **Rs.4,48,80,618/- (Rupees Four Crore Forty Eight Lakh Eighty Thousand Six Hundred Eighteen only)** as security for the due observance and performance by the Company of the terms and conditions herein contained. AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash. **(Bank Guarantee Receipt No.1637621BG0000167, Dt.29/04/2021)**



Executive Engineer
Raigad Irrigation Division
Kotad, Tal.Roha-Raigad

Definitions :-

Quota :- Quota means daily demand sanctioned and communicated to **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** by the Executive Engineer.

Corporation:- Corporation means the River basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathawada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC), & Vidharbha Irrigation Development Corporation (VIDC), Municipal corporations, Municipalities etc.

MIDC :- MIDC means Maharashtra Industrial Development Corporation.

MJP:- MJP means Maharashtra Jeevan Pradhikaran.

Yearly applicable demand:- Yearly applicable demand means the water demand communicated by the USER for the period from 1st November to 31st October to the Executive Engineer & sanctioned by Irrigation Department every year in the month of September along with its bifurcation for Industrial domestic and agricultural use.

USER: - USER means water using agency like individual company, Industrial Entrepreneurs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:-

- 1) (a) In consideration of the Company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained, the Government do hereby grant to the Company permission to draw following quota of water for the specified purpose

Sr. No.	Description/Use	Quantity in MLD (Million Liters Per Day)
1	Total sanctioned quota	55.16/Day
2	For other than water as raw material industrial use	55.16/Day

and use the same for the purpose of the Company's said plant or project, for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 1 Day on the following terms and conditions:

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases wherein the water used for Domestic/Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- (c) The industrial water requirement, the domestic water requirement and the agricultural (nursery/gardening) water requirement of the Company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.
- 2) The Renewal permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revisions, if any, in force and any executive orders issued in this behalf by the Government and any statutory amendment thereof from time to time and for the time being in force.
- 3) Nothing herein contained shall be deemed to imply any guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and the Government shall not be responsible for the non-supply or inadequate supply of water on any account whatsoever. However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department bill shall be charged as per actual quantity of water lifted/supplied during such period.
- 4) The Company shall use the water drawn from the said **Nagothane E.T.Weir (Amba river)** for purposes of the Company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies.") The Company shall not sale the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. The Government shall also be entitled to recover from the Company the proceeds of any such sale made by the Company.
- 5) The Government shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the Company as to which matter the decision of the Government shall be final and binding on the Company, for such purpose as the Government deems fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to hereafter launch or implement in public interest any new schemes or schemes on its own, on or in connection with the present source of channel of water supply available to the Company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal.Roha-Raigad

- 7) The company shall not construct the pick-up weir in the **Magothane K.T.Weir (Amba river)** bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the Company, the Company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer install for all uses mentioned in clause no. 1 of this agreement independent pipeline fitted with separate electronics water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer). All the pipeline layout showing locations of the metering equipment from the said source for different purposes shall be got jointly verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the Company failing to install the meter, during such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. for the event of the company in falls the water meter but fails to keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid, the Company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8(d) I & II appearing hereinafter.

The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The Company shall, at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the last day of each month or at agreed times, jointly by the Authorized representatives of the Executive Engineer and of the Company. Authorized representative of Executive



Executive Engineer
Rangad Irrigation Division
Kolad, Tal. Raha-Rangad

Engineer shall not be stopped by the company on the gate and shall not be checked for security propose and shall be allowed to inspect company premises at any time failing which the company is liable for cancellation of quota allotted. Decision of Executive Engineer in such case will be binding on company.

- (c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the Company. If on such testing the said electronic measuring devices are found to be defective, the Company shall forthwith get the same repaired and set right at its own cost and in the event of the Company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the Company.
- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the Company during the period when the meter was defective and not working shall be ascertained in the following manner:
- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the sanctioned demand as communicated in clause No. 11 quantity or average for the last six months whichever is higher.
- (ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the sanctioned demand as communicated in clause No.11 or average the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the Company that cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

- (iii) If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be levied as per the rates specified for the industrial use for the total quota as referred to in clause 1 (a) of this agreement.



A handwritten signature in blue ink, appearing to be "S. S. S.", written over a vertical line.

Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Raigad

- 9) Billing should be done on monthly basis. The bill for the water drawn by the Company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the Company within 15 days after the end of the water consumption month. The Company shall thereafter duly pay the same by a demand draft drawn in the name of the **Executive Engineer, Raigad Irrigation Division Kolad** for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge as stipulated by Government of Maharashtra will be charged. If the delay in payment of water charges exceeds six months the Irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.
- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the Company.
- 11) Subject to the provisions of clause (8) hereof, the Company shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges said electronic measuring devices at the following rates, namely:-

Rate in.Rs. Per 10,000 Liters i.e. (1 unit)

Use	Sanctioned Quota	From 11.01.2018 Onwards
Industrial	55.16 MLD	The above rates are as per the Governor Resolution No. MWRRA Order No.1/2018 dated 11 th January, 2018 Or any other rate notified by Government of Maharashtra.
Domestic	----	
Horticulture	----	

The Water lifted by the user during rainy season from the river where irrigation department has not released the water is chargeable as per the rates decided by Government of Maharashtra and no concession will be sought by user on such lifted water. User is fully aware of the category allotted to user by Executive Engineer for the purpose of drawing water from Nagothane K.T.Weir (Amba River) and no such claim or the dispute will be raised by the user. The decision of Executive Engineer will be binding on the user in this matter.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- i] If in any month the quantity of water drawn by the Company is less than 90 per cent of the quantity of water specified in clause (1) hereof then the company shall pay to the Government water charges as per the Government of Maharashtra Notification.
- ii] For any unforeseen reasons, if the Company would like to reduce / increase the demand of water entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of July. On acceptance of such revised demand the Company will be charged as per changed demand for the period specified, other conditions remaining same. A supplementary agreement on Rs.100/- stamp paper for this changed quantity which will form part of main agreement.
- iii] No penal rate will be levied for the quantity limited to 15% in excess of the sanctioned one. For quantity used in excess of this 15% without prior sanction a penal rate as per Government of Maharashtra Notification will be charged over the basic rate. The delay in payment on account of this also will be governed by clause 9 above. 4
151.
- iv] For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Government level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
- v] In addition to the payment of water charges referred to above the Company shall also pay to the Government local funds cess at the rate of 20 paise per every rupee of basic water charges.
- vi] Water bills - The monthly bill for the period from July to May (for 11 Months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of June (12th month) shall be prepared by taking review of annual sanctioned demand and the terms and conditions of the agreement and then shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The water lifted in excess up to 15% of sanctioned demand shall be charged at single rate and excess above 15% (without prior permission) will be charged at penal rate 1.50 times of the normal rate, as mentioned in the relevant clause. However the local cess shall be charged on single rate only.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 12) (a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the monthly demand by the user from the Executive Engineer. On default, of the user to shall pay the water rate or local fund cess as aforesaid vide clause 9 and 11, the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause No 9.
- (b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/firm/individual water users shall first pay the complete amount of the bill and then claim for the refund of any excess bill charged giving the reasons / justification of wrong billing. However the decision of Superintending Engineer, Thane Irrigation Circle, and Thane in this regards shall be final and binding on the company and no further claim in any just will be made by the user.
- 13) The Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and Company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time and any clause entered in this agreement is subjected to change as per the notification by Government of Maharashtra.
- 14) The user shall not discharge the effluent in any nalla or river and shall not pollute directly or indirectly any portion of the said nalla / river even by septic tank effluents. If any water sources are polluted by any industry as identified by irrigation / pollution control board/MIDC/MJP the Company shall be charged with a penalty as per the Notification by Government of Maharashtra issues of prevalent times. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the Company.
- The company undertaking to recycle the effluent water for their use such as gardening, recreation, cooling cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.
- 15) The effluent disposal arrangement made by the company/ industry shall be got approved by the Company from the Maharashtra Pollution Control Board/ Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source and shall submit the same to the Executive Engineer without which the user will not be allowed to draw the water.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the Company & shall not be stopped or checked for any security reason at any time.
- 17) Any notice or other document to be given to or served upon the Company may be given or served on behalf of the Government by the Executive Engineer, Raigad Irrigation Division, Kolad and any notice or document shall be deemed to have been duly given to or served upon the Company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 18) The said sum of **Rs.4,48,80,618/- (Rupees Four Crore Forty Eight Lakh Eighty Thousand Six Hundred Eighteen only)** deposited in the form of bank guarantee/~~FDR/Demand Draft~~ by the company with the Executive Engineer, Raigad Irrigation Division, Kolad to the Government as aforesaid shall be held by the Government as security deposit for the due observance and performance by the Company of the covenants, terms and conditions herein contained. In case of defaults on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the Company under these presents for such breach and the Company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of **Rs.4,48,80,618/- (Rupees Four Crore Forty Eight Lakh Eighty Thousand Six Hundred Eighteen only)** or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the Company after the made of this agreement. The company must submit the fresh Bank Guarantee + ~~FDR/Demand Draft~~ of any such amount required for renewal of this agreement first & then this security deposit of **Rs.4,48,80,618/- (Rupees Four Crore Forty Eight Lakh Eighty Thousand Six Hundred Eighteen only)** will be refunded.
- 19) All amounts due to the Government by the Company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the Company as arrears of land revenue.



Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

- 20) On the expiry of the term of this agreement, the Government may renew this agreement within 90 days for such further period and on such terms and conditions, as the Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by Company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the Company from the Industries Department.
- 23) The agreement supersedes all the previous agreements entered into by the user with the Government in connection with the supply of water from **Nagothane K.T.Weir (Amba River)**.
- 24) The Company should submit their water indent for every rotation to the **Executive Engineer, Raigad Irrigation, Division Kolad** on or before starting of the rotation. Where the source is located on canal, the Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 25) The Company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the Company will have to make an alternative arrangement for its water requirement at its own cost & irrigation department is not liable for any damages incurred to company due to non-supply of water.
- 26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY UNILATERALLY.


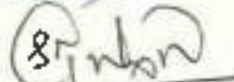


Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad


- 27) The Govt. hereby reserves to itself its right to change, amend, modify, cancel, revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of **M/S JSW STEEL DOLVI, TALUKA PEN, DISTRICT RAIGAD** has been hereunto affixed AND the **Executive Engineer, Raigad Irrigation Division, Kolad** has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of this office the day and year first herein above written. THE COMMON SEAL OF _____ was pursuant to a resolution of the Board of Directors of the company dated _____, 2021.

Hereto affixed in the presence of

- 1) Vinay V Nene 
2) Suresh Jagtap 


two Directors of the company who in token thereof have here to set their respective hands in the presence of-

- 1) Narayan / Balbura da. 
2) _____



SIGNED, SEALED AND DELIVERED by the **Executive Engineer, Raigad Irrigation Division, Kolad** for and on behalf of the Governor of Maharashtra

In the presence of

- 1) Nikita P. Hajare. 
2) _____




Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha-Raigad

<h2 style="margin: 0;">कार्यकारी अभियंता,</h2> <p style="margin: 0;">रायगड पाटबंधारे विभाग, कोलाड, ता.रोहा, जि.रायगड. पिन नं.४०२ ३०४.</p> <p style="margin: 0;">दूरध्वनी क्र.०२१९४ - २५०८५०, Email ID:- eerkd24@gmail.com</p> <p style="margin: 0;">कृपया जलसंपदा विभागाच्या संकेत स्थळास भेट द्या http://wrd.Maharashtra.gov.in</p>	
जा.क्र.रापावि/प्रशा-१/१५३२ /२०२०	दिनांक: १३ /०५/ २०२०

प्रति,

मे.जे.एस.डब्ल्यू. स्टील लि.

मीजे डोलवी, ता.पेण,

जि.रायगड.

विवरण:- मे.जे.एस.डब्ल्यू. स्टील लि., डोलवी, ता.पेण, जि.रायगड यांना अंदा प्रकल्प डोलवहाल बंधान्यातून विगर सिंचन (५३.९८ दललि/दिन + ५.०० दललि/दिन) एकूण ५८.९८ दललि/दिन पाणी वापराचा करारनामा करणेबाबत.

- संदर्भ:-**
१. विभागीय कार्यालयाचे पत्र जा.क्र.रापावि/प्रशा-३/२५०७, दि.०३/०८/२०१८.
 २. शासन निर्णय क्र.सकीर्ण-२०१५/(४४/१५)/सि.व्य.(धो.), दि.१७/११/२०१६
 ३. शासन निर्णय क्र.विसि/आ-२०१९/(८९/१९)/सि.व्य.(धो.), दि.२८/०५/२०१९
 ४. मा.मुख्य अभियंता, जलसंपदा विभाग, कोंकण प्रदेश, मुंबई यांचे पत्र जा.क्र.मुअ/जसंविकोप्र/तां-५/JSW/४२८९, दि.२१/११/२०१९.
 ५. कंपनीचे दि.०४/०५/२०२० रोजीचे पत्र.

घरील संदर्भित पत्र क्र.१ अन्वये डोलवी कोक प्रोजेक्ट लि., मीजे डोलवी, ता.पेण, जि.रायगड कंपनीचा ५.०० दललि/दिन पाणी वापराचा सहा वर्षे कालावधीचा करारनामा करणेत आलेला होता.

संदर्भित पत्र क्र.२, ३ व ४ अन्वये मे.जे.एस.डब्ल्यू. स्टील लि. मीजे डोलवी, ता.पेण यांना डोलवहाल बंधान्यातून औद्योगिक पाणी वापराकरीता ५३.०० दललि/ दिन घरगुती पाणी वापराकरीता ०.९८ दललि/दिन असे एकूण ५३.९८ दललि/दिन व डोलवी कोक प्रोजेक्ट लि., मीजे डोलवी, ता.पेण यांचा औद्योगिक वापराकरीता ५.०० दललि/दिन असे एकूण औद्योगिक वापराकरीता ५८.०० दललि/दिन व घरगुती पाणी वापराकरीता ०.९८ दललि/दिन असे एकूण ५८.९८ दललि/दिन पाणीवापराचा दि.१२/०५/२०२० ते ११/०५/२०२६ सहा वर्षे कालावधीचा करारनामा करणेत येत आहे.



महाराष्ट्र MAHARASHTRA 31 MAR 2020 2018

AN 250636

जे एच उल्हास विल लि तर्फे
शागर प्रल्हाद रिसलुड



Sub-Treasury Officer
Raigad, Dist. Raigad

26 MAR 2020

AGREEMENT
(For Non-Irrigation water supply)

AN AGREEMENT MADE on Dt. 12/05/2020 BETWEEN M/S
JSW STEEL LTD., AT-POST-DOLVI, TAL.PEN, DIST. RAIGAD
MAHARASHTRA STATE PIN 402107 (which expression shall, unless
excluded by or it be repugnant to the context or meaning there of be deemed
to include its successors and assigns) registered under the Indian Companies
Act, 1913 (vii of 1913), and having its registered office at JSW Centre,
Bandra - Kurla Complex, Bandra (E) Mumbai-400 051 hereinafter referred
to as "The Company" of the one part;



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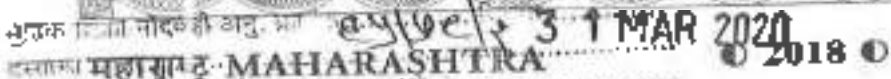
[Signature]
Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.

mentioned in clause no. 1 of this agreement in respect of
with separate scada based electronics water measuring devices for use of



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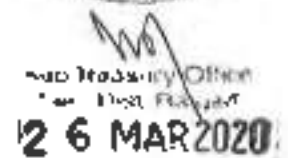
[Signature]
Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.



MAHARASHTRA
जिल्हा न्यायालय, मुंबई
निदेशांक: १५३/२०१८
मुंबई न्यायालय, मुंबई
महाराष्ट्र सरकार, मुंबई

जे एच उल्लेख
आगर प्रत

yash



WHEREAS the company is desirous of constructing a pumping station on the company's land at **M/S JSW STEEL LTD., AT-POST-DOLVI, TAL.PEN, DIST.RAIGAD MAHARASHTRA STATE PIN 402107** for drawing water from the source of **Amba River** (here in after referred to as "the said source") for the use by the Company's plant located in Dolvi (here in after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.


The Engineer

mentioned in clause no. 1 of this agreement independent of the water meter with separate scada based electronics water measuring devices for use of



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AND WHEREAS the Company has applied to the Government for permission to draw 53.98 million liters of water per day from the said source AND whereas the company has paid Rs.Nil (Rupees Nil) to Government towards the proportional cost of capital outlay of the project.

AND WHEREAS the Government has agreed to grant the aforesaid permission to the company on the terms and conditions Vide Chief Engineer, Konkan Region Mumbai letter no Marathi Letter जा.क्र.पुअ/जसयिकोप्र/ता-4/JSW/8269, दि.29/09/2009.

AND WHEREAS the Company has to deposit with the Executive Engineer Raigad Irrigation, Division Kolad a sum of Rs.5,05,68,192/- (Rupees Five Crores Five Lakh Sixty Eight Thousand One Hundred Ninety Two only) as security equivalent to two months company's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of Demand Draft/Fix Deposit receipt or a bank guarantee issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the Company of the terms and conditions of this Agreement

AND WHEREAS the company has accordingly, prior to the execution of these presents, agreed to deposit with the Government within month from signing of this agreement a sum of Rs.5,05,68,192/- (Rupees Five Crores Five Lakh Sixty Eight Thousand One Hundred Ninety Two only) as security for the due observance and performance by the Company of the terms and conditions herein contained. AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

Definitions :-

Quota :- Quota means daily demand sanctioned and communicated to M/S JSW STEEL LTD., AT - POST - DOLVI, TAL.PEN, DIST.RAIGAD MAHARASHTRA STATE PIN 402107 by the Executive Engineer.

Corporation:- Corporation means the River basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (QMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC). & Vidharbha Irrigation Development Corporation (VIDC), Municipal corporations, Municipalities etc.

MIDC :- MIDC means Maharashtra Industrial Development Corporation.

MJP:- MJP means Maharashtra Jeevan Pradhikaran.



Executive Engineer
Raigad Irrigation Division
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Yearly applicable demand:- Yearly applicable demand means the water demand communicated by the USER for the period from 1st June to 31st July to the Executive Engineer & sanctioned by Irrigation Department every year in the month of June along with its bifurcation for Industrial domestic and agricultural use.

USER:- USER means water using agency like individual company, Industrial Entrepreneurs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:-

- 1) (a) In consideration of the Company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained, the Government do hereby grant to the Company permission to draw following quota of water for the specified purpose

Description	Quantity/Use as per year					
	12/05/2020 to 31/12/2020	01/01/2021 to 28/02/2021	01/03/2021 to 30/04/2021	01/05/2021 to 30/06/2021	01/07/2021 to 31/08/2021	01/09/2021 On wards
Water for Industrial use (Doly) Coke Project 5.00 MLD as per C.E. Dt. 21/11/2019 sanctioned 53.00 MLD)	1.00 MLD	10.00 MLD	21.00 MLD	40.00 MLD	50.00 MLD	58.00 MLD
For Domestic use	—	—	—	0.98 MLD	0.98 MLD	0.98 MLD

and use the same for the purpose of the Company's said plant or project, for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 1 Day of June 2020 on the following terms and conditions:

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases wherein the water used for Domestic/Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.
- (c) The industrial water requirement, the domestic water requirement and the agricultural (nursery/gardening) water requirement of the Company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.
- 2) The Renewal permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revisions, if any, in force and any executive orders issued in this behalf by the Government and any statutory amendment thereof from time to time and for the time being in force.



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Executive Engineer
Rahad Irrigation Division
Kolar, Karnataka
Page 62 of 71

- 3) Nothing herein contained shall be deemed to imply any guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and the Government shall not be responsible for the non-supply or inadequate supply of water on any account whatsoever. However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department bill shall be charged as per actual quantity of water lifted/supplied during such period.
- 4) The Company shall use the water drawn from the said source Amba river for purposes of the Company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies.") The Company shall not sale the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. The Government shall also be entitled to recover from the Company the proceeds of any such sale made by the Company.
- 5) The Government shall be entitled to utilize water of the said Amba river available after meeting the reasonable requirements of the Company as to which matter the decision of the Government shall be final and binding on the Company, for such purpose as the Government deems fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to hereafter launch or implement in public interest any new schemes or schemes on its own, on or in connection with the present source of channel of water supply available to the Company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.
- 7) The company shall not construct the pick-up weir in the Amba river bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the Company, the Company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer install for all uses mentioned in clause no. 1 of this agreement independent pipeline fitted with separate acada based electronics water measuring devices for use of



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water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer). All the pipeline layout showing locations of the metering equipment from the said source for different purposes shall be got jointly verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the Company failing to install the meter, during such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. For the event of the company in falls the water meter but fails to keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid, the Company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8(d) I & II appearing hereinafter.

The said scada based electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The Company shall, at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the last day of each month or at agreed times, jointly by the Authorized representatives of the Executive Engineer and of the Company. Authorized representative of Executive Engineer shall not be stopped by the company on the gate and shall not be checked for security propose and shall be allowed to inspect company premises at any time failing which the company is liable for cancellation of quota allotted. Decision of Executive Engineer in such case will be binding on company.
- (c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the Company. If on such testing the said electronic measuring devices are found to be defective, the Company shall forthwith get the same repaired and set right at its own cost and in the event of the Company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the Company.



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Executive Engineer
Raigarh Division
Kolad, Tal. Raigarh - Raigarh

- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the Company during the period when the meter was defective and not working shall be ascertained in the following manner:
- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the sanctioned demand as communicated in clause No. 11 quantity or average for the last six months whichever is higher.
- (ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the sanctioned demand as communicated in clause No. 11 or average the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.
- The aforesaid provisions will also apply when the quantity of water drawn by the Company that cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.
- (iii) If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be levied as per the rates specified for the industrial use for the total quota as referred to in clause 1 (a) of this agreement.
- 9) Billing should be done on monthly basis. The bill for the water drawn by the Company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the Company within 15 days after the end of the water consumption month. The Company shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer, Raigad Irrigation Division Kolad for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge as stipulated by Government of Maharashtra will be charged. If the delay in payment of water charges exceeds six months the Irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.



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Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Kolad - Raigad.
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- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the Company.
- 11) Subject to the provisions of clause (8) hereof, the Company shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges said electronic measuring devices at the following rates, namely:-

Rate in Rs. Per 1,000 Liters i.e. (1 unit)

Use	Sanctioned Quota	From 1.11.2010 Onwards
Industrial	58.00 MLD	The above rates are as per the Governor Resolution No. संकिर्ण २०१४/(४३/१४)/सि.व्य.(धोरण), मंत्रालय, मुंबई, दि.२७/०२/२०१८ and MWRRRA's order No.1/2018, Dt.11/01/2018 Or any other rate notified by Government of Maharashtra
Domestic	0.98 MLD	
Horticulture	—	

The Water lifted by the user during rainy season from the river where irrigation department has not released the water is chargeable as per the rates decided by Government of Maharashtra and no concession will be fought by user on such lifted water. User is fully aware of the category allotted to user by Executive Engineer for the purpose of drawing water from Amba River and no such claim or the dispute will be raised by the user. The decision of Executive Engineer will be binding on the user in this matter.

- i) If in any month the quantity of water drawn by the Company is less than 90 per cent of the quantity of water specified in clause (1) hereof then the company shall pay to the Government water charges as per the Government of Maharashtra Notification.
- ii) For any unforeseen reasons, if the Company would like to reduce / increase the demand of water entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of November. On acceptance of such revised demand the Company will be charged as per changed demand for the period specified, other conditions remaining same. A supplementary agreement on Rs.100/- stamp paper for this changed quantity which will form part of main agreement.



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- iii] No penal rate will be levied for the quantity limited to 10% in excess of the sanctioned one. For quantity used in excess of this 10% without prior sanction a penal rate as per Government of Maharashtra Notification will be charged over the basic rate. The delay in payment on account of this also will be governed by clause 9 above.
 - iv] For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Government level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
 - v] In addition to the payment of water charges referred to above the Company shall also pay to the Government local funds cess at the rate of 20 paise per every rupee of basic water charges.
 - vi] The water lifted in excess up to 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate 1.50 times of the normal rate, as mentioned in the relevant clause. However the local cess shall be charged on single rate only.
- 12) (a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the monthly demand by the user from the Executive Engineer. On default, of the user to shall pay the water rate or local fund cess as aforesaid vide clause 9 and 11, the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause No 9.
- (b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/firm/individual water users shall first pay the complete amount of the bill and then claim for the refund of any excess bill charged giving the reasons / justification of wrong billing. However the decision of Superintending Engineer, Thane Irrigation Circle, and Thane in this regards shall be final and binding on the company and no further claim in any just will be made by the user.



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Executive Engineer
Page 67 of 71 Division
Kolad, Tal. Roha - Raigad.

- 13) The Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and Company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time and any clause entered in this agreement is subjected to change as per the notification by Government of Maharashtra.
- 14) The user shall not discharge the effluent in any nalla or river and shall not pollute directly or indirectly any portion of the said nalla / river even by septic tank effluents. If any water sources are polluted by any industry as identified by Irrigation / pollution control board/MIDC/MJP the Company shall be charged with a penalty as per the Notification by Government of Maharashtra issues of prevalent times. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the Company.
- The company undertaking to recycle the effluent water for their use such as gardening, recreation, cooling cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.
- 15) The effluent disposal arrangement made by the company/ industry shall be got approved by the Company from the Maharashtra Pollution Control Board/ Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source and shall submit the same to the Executive Engineer without which the user will not be allowed to draw the water.
- 16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the Company & shall not be stopped or checked for any security reason at any time.
- 17) Any notice or other document to be given to or served upon the Company may be given or served on behalf of the Government by the Executive Engineer, Raigad Irrigation Division, Kolad and any notice or document shall be deemed to have been duly given to or served upon the Company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.



A handwritten signature in black ink, appearing to be "K. S. Kulkarni".

A handwritten signature in black ink, appearing to be "S. J. Kulkarni".

Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.

- 18) The said sum of Rs.5,05,68,192/- (Rupees Five Crores Five Lakh Sixty Eight Thousand One Hundred Ninety Two only) must be deposited in the form of bank guarantee/FDR/ Demand Draft by the company with the Executive Engineer, Raigad Irrigation Division, Kolad within a month from the date of signing agreement to the Government as aforesaid shall be held by the Government as security deposit for the due observance and performance by the Company of the covenants, terms and conditions herein contained. In case of defaults on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the Company under these presents for such breach and the Company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of Rs.5,05,68,192/- (Rupees Five Crores Five Lakh Sixty Eight Thousand One Hundred Ninety Two only) or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the Company after the made of this agreement The company must submit the fresh Bank Guarantee / FDR/Demand Draft of any such amount required for renewal of this agreement first & then this security deposit of Rs.5,05,68,192/- (Rupees Five Crores Five Lakh Sixty Eight Thousand One Hundred Ninety Two only) will be refunded.
- 19) All amounts due to the Government by the Company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the Company as arrears of land revenue.
- 20) On the expiry of the term of this agreement, the Government may renew this agreement within 90 days for such further period and on such terms and conditions, as the Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by Company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the Company from the Industries Department.



Handwritten signature

Handwritten signature
Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.

- 23) The agreement supersedes all the previous agreements entered into by the user with the Government in connection with the supply of water from Amba River.
- 24) The Company should submit their water indent for every rotation to the Executive Engineer, Raigad Irrigation, Division Kolad on or before starting of the rotation. Where the source is located on canal, the Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 25) The Company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the Company will have to make an alternative arrangement for its water requirement at its own cost & irrigation department is not liable for any damages incurred to company due to non-supply of water.
- 26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY UNILATERALLY.
- 27) The Govt. hereby reserves to itself its right to change, amend, modify, cancel, revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.



Alkandekar

[Signature]
Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.

IN WITNESS WHEREOF THE Common Seal of M/S JSW STEEL LTD., AT-POST-DOLVI, TAL.PEN, DIST.RAIGAD MAHARASHTRA STATE PIN 402107 has been hereunto affixed AND the Executive Engineer, Raigad Irrigation Division, Kolad has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of this office the day and year first herein above written. THE COMMON SEAL OF M/S JSW STEEL LTD., AT-POST-DOLVI, TAL.PEN, DIST.RAIGAD MAHARASHTRA STATE PIN 402107 was pursuant to a resolution of the Board of Directors of the company dated

Hereto affixed in the presence of

- 1) Surash G. Jagtap
- 2) Vinay V. Nene

(Signature)
AA



two Directors of the company who in token thereof have here to set their respective hands in the presence of-

- 1) _____
- 2) _____

(Signature)
(Narayan Botbunda)

SIGNED, SEALED AND DELIVERED by the Executive Engineer, Raigad Irrigation Division, Kolad for and on behalf of the Governor of Maharashtra

In the presence of

- 1) P. M. Dhalpe - Dhalpe
- 2) _____



(Signature)
Executive Engineer
Raigad Irrigation Division
Kolad, Tal. Roha - Raigad.



Copy of all Water drawl permission letters Annexure-3.2

List of all Water drawl permission letters of JSWSL, Dolvi

Sn	Description	Permitted drawl quantity (in MLD)
1.	7.00 MLD (ARCL) WATER AGREEMENT	7.00
2.	9.00 MLD (JSW VILLAGERS) WATER AGREEMENT	9.00
3.	35.70 MLD (JSW) WATER AGREEMENT	35.70
4.	55.16 MLD (JSW) WATER AGREEMENT	55.16
5.	58.98 MLD (JSW) WATER AGREEMENT	58.98
Total permitted quantity for drawl		165.84

Annexure-2 a



Pictorial view of Cooling tower chemical treatment at captive Power plant -2

Annexure 4

Screenshot of Data Connectivity of CEMS

Annexure-3

← → ↻ ⚠ Not secure | rtdms.cpcb.gov.in/industry-status?id=954&st=live



SPCB Regional Office

* Kalpataru Point, 3rd and 4th floor, Opp.
Cine Planet, Sion Circle, Mumbai-400 022

Industry Representatives

Central Pollution Control Board

JSW Steel Ltd - Integrated Steel Plant Capacity 5 to 10

Iron and Steel

MTPA(08MH164)

Vill- Geefapuram , Dolvi, Tal. Pen, Dist- Raigad, Raigad Maharashtra PIN - 402107

Station: 46



FLUE

NOX

10.1
mg/Nm³



Diagnostic Status

Oct 7, 2023
10:00:00 AM
Time



[View Diagnostics](#) [View Data](#)

SO₂

10.1
mg/Nm³



Diagnostic Status

Oct 7, 2023
10:00:00 AM
Time



[View Diagnostics](#) [View Data](#)

PM

21.2
mg/Nm³



Diagnostic Status

Oct 7, 2023
10:00:00 AM
Time

50 mg/Nm³
Prescribed
Standard



[View Diagnostics](#) [View Data](#)

SILO

PM

12.2
mg/Nm³



Diagnostic Status

Oct 7, 2023
10:00:00 AM

50 mg/Nm³
Prescribed
Standard



Annexure 5

Six Monthly Environment Monitoring Report

Dolvi Works:
Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107, Maharashtra, India.
CIN : L27102MH1994PLC152925
Phone : +91 2143 663006/3100/3200
Fax : +91 2143 277533/42
Website : www.jsw.in

BY COURIER

May 27, 2024

JSWSL/ENV/MOEF&CC/2023

To

Regional Officer,
Ministry of Environment, Forests & Climate Change
Regional Office, (West Central Zone)
Ground Floor, East Wing,
New Secretarial Building, Civil Line,
Nagpur - 440001.

Sub: Submission of Six Monthly Environmental Monitoring Reports for Integrated Steel Plant for the Period of October 2023 to March 2024.

Ref: i) EC from MoEF vide F No J-11011 / 4 / 96 - IA - II dated 31st December 1996.
ii) EC from MoEF, vide F No J-11011/166/2011-IA-II (I) dated 21st November 2012.
iii) EC from MoEF, vide F No J-11011/176/2013-IA-II (I) dated 25th August 2015.

Dear Sir,

Please find enclosed the six monthly Environmental Monitoring Reports for the period of October 2023 to March 2024 for Integrated Steel Plant. Report contains the analysis of Cooling Tower Blow Down, Treated & Untreated Effluent from Sponge Iron Plant, Stack Emissions and Work Zone Air Quality from Sponge Iron Plant, Hot Strip Mill Plant, Blast Furnace Plant, Lime Calcining Plant, Captive Power Plant, Sinter Plant-I, Sinter Plant-II, Billet Caster and Bar Mill and Ambient Air Quality for the Integrated Steel Plant.

This is for your information and record please.

Thanking You,

Yours Faithfully,
For JSW Steel Limited,


Dr. Anand Rai.
Vice President (HOD-Environment)

CC: 1) The Director, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003 for kind information.

2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023, Gujarat.


3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai


JSW STEEL LIMITED
GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

COOLING TOWER BLOWDOWN WATER ANALYSIS REPORT

Sr.	PARAMETERS	UNIT	VALUES					
No.			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Chromium	mg/l	0.0015	0.0017	0.0016	0.0015	0.0017	0.0016
2	Zinc	mg/l	0.096	0.097	0.095	0.098	0.097	0.095
3	Phosphate	mg/l	0.092	0.94	0.88	0.086	0.09	0.10
4	Free Chlorine	mg/l	Nil	Nil	Nil	Nil	Nil	Nil


Prepared By
P. P. Nandusekar
Manager (Environment)



Checked By
Dr. Anand Rai
Vice President (HOD-Environment)


JSW STEEL LIMITED
GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

SIX MONTHLY TREATED EFFLUENT ANALYSIS REPORT

SR. NO.	PARAMETERS	UNIT	VALUES					
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Temperature	°C	27.3	27.2	27.3	27	27.3	27.3
2	pH	-	7.2	7.2	7.3	7.3	7.3	7.3
3	D.O.	mg/l	5.5	5.5	5.5	5.6	5.6	5.6
4	T.S.S.	mg/l	22.2	21.3	20.4	20.2	21.8	21.7
5	T.D.S.	mg/l	329.5	344.3	346.8	329.4	340	343
6	C.O.D.	mg/l	29.2	29.2	26.5	26.6	23.9	24.0
7	B.O.D.	mg/l	6.9	7.1	6.9	7.0	7.0	6.9
8	Oil & Grease	mg/l	3.2	3.5	3.4	3.2	3.5	3.3
9	Iron	mg/l	0.40	0.40	0.40	0.4	0.40	0.40
10	Chlorides	mg/l	57.5	60.00	55.00	58.0	60.00	61.20
11	Sulphates	mg/l	2.3	2.2	2.3	2.3	2.3	2.3
12	Bioassay Test on 100 % Effluent for 96 Hours.	Survival Rate	100%	100%	100%	100%	100%	100%
13	Receiving Water Body Temperature	°C	27.2	27.2	27.3	27.2	27.2	27.2


Prepared By
P. P. Nandusekar
Manager (Environment)

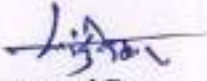

Checked By
Dr. Anand Rai.
Vice President (HOD-Environment)


JSW STEEL LIMITED
GEETAPURAM, DOLVI, TAL.- PEN, DIST.- RAIGAD, PIN - 402 107

SPONGE IRON PLANT

SIX MONTHLY UNTREATED EFFLUENT ANALYSIS REPORT

SR. NO.	PARAMETERS	UNIT	VALUES					
			Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Temperature	°C	56.3	56.4	56.4	56.6	56.3	56.5
2	pH	-	8.4	8.4	8.3	8.3	8.4	8.5
3	D.O.	mg/l	2.4	2.4	2.4	2.4	2.5	2.5
4	T.S.S.	mg/l	623.4	626.0	621.8	615.2	626.8	623.5
5	T.D.S.	mg/l	525.3	501.0	494.3	508.4	527.8	522.5
6	C.O.D.	mg/l	50.4	55.7	53.0	53	53.1	58.4
7	B.O.D.	mg/l	7.8	7.8	7.7	7.6	7.8	7.7
8	Oil & Grease	mg/l	4.8	4.9	4.6	5.1	4.4	4.4
9	Iron	mg/l	1.4	1.4	1.40	1.4	1.4	1.40
10	Chlorides	mg/l	163.7	159.9	163.70	161.9	163.7	161.20
11	Sulphates	mg/l	3.3	3.3	3.30	3.2	3.2	3.20



Prepared By
P. P. Nandusekar
Manager (Environment)



Checked By
Dr. Anand Rai
Vice President(HOD-Environment)

JSW STEEL LIMITED
Integrated Steel Mill Complex
 Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

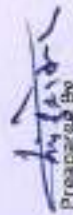
A) STACK EMISSION :

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³				
									Particulate Matter (PM)	SO ₂	NO _x	CO	
Plant Capacity: 3.0 MTPA													
1	GCP - I Stack	SMS Furnace	70.5	5.5	Bag Filters	02/10/23 10:35 Hrs	10418.0	16.99	11	15.5	16.0	18.0	
						10/11/23 10:00 Hrs	9584.0	16.91	11	13.0	15.0	18.0	
						11/12/23 10:35 Hrs	9937.0	17.68	10	14.0	18.0	28.0	
						01/01/24 10:15 Hrs	10164.0	16.23	11	15.0	12.0	18.0	
						26/02/24 10:00 Hrs	10183.0	15.80	7	11.0	14.0	13.21	
						08/03/24 12:30 Hrs	10030.0	16.05	7	18.0	16.0	NA	
2	GCP - II Stack	SMS Furnace	70.5	5.5	Bag Filters	02/10/23 12:05 Hrs	10418.0	14.95	9	15.1	12.0	15.0	
						10/11/23 12:20 Hrs	9584.0	16.45	5	25.0	16.0	22.0	
						11/12/23 14:35 Hrs	9937.0	15.45	4	13.0	16.0	21.0	
						01/01/24 12:10 Hrs	10164.0	17.41	14	14.0	18.0	20.0	
						26/02/24 16:15 Hrs	10183.0	15.61	12	15.0	16.0	4.9	
						19/03/24 17:35 Hrs	9536.0	17	4	15.0	11.8	NA	
3	GCP - III Stack	SMS Furnace	66.5	3.3	Bag Filters	02/10/23 15:15 Hrs	10418.0	8.76	6	14.0	17.0	12.0	
						10/11/23 15:23 Hrs	9584.0	8.51	6	18.0	27.0	13.0	
						11/12/23 16:30 Hrs	9937.0	6.01	6	10.0	12.0	18.0	
						01/01/24 15:26 Hrs	10164.0	8.63	6	11.0	13.0	16.0	
						26/02/24 17:30 Hrs	10183.0	9	6	NA	NA	NA	
						08/03/24 10:15 Hrs	10030.0	9	6	NA	NA	NA	
4	Tunnel Furnace - I - A Stack	Tunnel Furnace	50	1.5	Blower	03/10/23 10:00 Hrs	6682.0	8.20	10	13.0	18.0	21.0	
						04/11/23 10:00 Hrs	9758.0	7.60	9	18.0	30.0	18.0	
						15/12/23 10:25 Hrs	10658.0	6.80	11	17.0	19.0	16.0	
						02/01/24 10:00 Hrs	8556.0	8.50	9	13.6	8.10	12.0	
						25/02/24 10:00 Hrs	10327.0	7.60	10	26.0	13.00	18	
						03/03/24 10:00 Hrs	8441.0	7.90	10	17.0	13.00	NA	


 Prepared By
 P.P. Nandusekar
 Manager (Environment)


 Checked By
 Dr. Anand Rai
 Vice President (HOD-Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
5	Tunnel Furnace - I - B Stack	Tunnel Furnace	50	1.5	Blower	03/10/23 12:15 Hrs	6682.0	6.90	8	18.0	16.0	23.0
						04/11/23 12:18 Hrs	9758.0	6.80	10	14.0	19.0	24.0
						15/12/23 12:28 Hrs	10658.0	7.10	8	12.0	16.0	22.1
						02/01/24 12:10 Hrs	8556.0	6.70	11	14.0	12.00	19.0
						25/02/24 12:30 Hrs	10327.0	8.20	6	17.0	16.00	12.55
						03/03/24 12:00 Hrs	8441.0	7.60	6	26.0	18.00	NA
6	Tunnel Furnace - II - A Stack	Tunnel Furnace	50	1.5	Blower	03/10/23 15:05 Hrs	6682.0	7.20	9	28.0	21.0	25.0
						04/11/23 14:35 Hrs	9758.0	7.20	12	16.0	18.0	26.0
						15/12/23 14:42 Hrs	10658.0	7.60	9	14.0	6.4	19.0
						02/01/24 14:23 Hrs	8556.0	7.20	6	15.0	18.0	13.6
						25/02/24 14:00 Hrs	10327.0	7.80	6	14.0	15.0	13.0
						03/03/24 14:15 Hrs	8441.0	7	8	16.0	14.0	NA
7	Tunnel Furnace - II - B Stack	Tunnel Furnace	50	1.5	Blower	03/10/23 16:50 Hrs	6682.0	7.80	4	12.0	26.0	24.0
						04/11/23 16:22 Hrs	9758.0	8.51	9	18.0	22.0	24.0
						15/12/23 16:10 Hrs	10658.0	6.60	4	10.0	12.0	27.0
						02/01/24 16:10 Hrs	8556.0	8.50	4	16.0	21.0	23.0
						25/02/24 16:30 Hrs	10327.0	6.80	4	17.0	25.0	22.0
						03/03/24 16:45 Hrs	8441.0	7	4	23.0	17.0	NA
8	18 TPH Boiler Stack	Boiler	65	1.8	Blower	Shot Down 31/04/2022						
9	De-Dusting System Stack	Lime & Coke Handling System	30	1.9	Bag Filters	Stack dismantled In April - 15/4/2023						
							CPCB Norms	<100	NA	50.00	NA	NA


 Prepared By
 P.P. Nandusekar
 Manager (Environment)


 Checked By
 Dr. Anand Rai
 Vice President (HOO-Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³				
									Particulate Matter (PM)	SO _x	NO _x	CO	
Plant Capacity: 0.44 MTPA													
II Lime Calcination Plant													
1	Lime Stone De-dusting system stack for Kiln I & II	Lime Stone Hopper	41.5	0.825	Bag Filters	02/12/23 10:05 Hrs	300	5	15	NA	NA	NA	NA
						08/11/23 10:20 Hrs	600	4	13	NA	NA	NA	NA
						02/12/23 10:05 Hrs	300	5	15	NA	NA	NA	NA
						14/01/24 10:05 Hrs	288	6	16	NA	NA	NA	NA
						28/02/24 10:05 Hrs	593	6	14	NA	NA	NA	NA
						05/03/24 14:20 Hrs	618	4	16	NA	NA	NA	NA
2	Kiln - I Stack	Kiln - I	48.7	0.914	Bag Filters	06/10/23 12:10 Hrs	294	13.0	15	10.0	15.0	18.0	18.0
						01/11/23 10:05 Hrs	261	12.0	19	12.0	21.0	24.0	24.0
						28/12/23 10:45 Hrs	300.0	14.5	24	15.0	12.00	11.0	11.0
						15/01/24 10:20 Hrs	278	14.0	23	12.0	16.0	21.0	21.0
						02/02/24 10:15 Hrs	300	16.0	34	19.0	15.0	22.0	22.0
						05/03/24 10:15 Hrs	287	12	18	12.6	18.8	NA	NA
3	Kiln - II Stack	Kiln - II	48.7	0.914	Bag Filters	06/10/23 14:25 Hrs	294.0	12.5	22	12.0	14.00	20.0	20.0
						01/11/23 12:00 Hrs	300.0	21.5	21	18.0	16.00	28.0	28.0
						28/12/23 10:45 Hrs	290.0	14.5	24	15.0	12.00	11.0	11.0
						23/01/24 11:25 Hrs	300.0	13.2	21	10.0	14.00	19.0	19.0
						02/02/24 15:30 Hrs	325.0	18.9	23	23.0	18.00	12.0	12.0
						05/03/24 11:35 Hrs	331.0	9	18	19.6	15.60	NA	NA
4	Lime De-dusting system Stack for Kiln I & II	Lime Storage Hopper	25.5	0.825	Bag Filters	04/10/23 10:18 Hrs	553.0	4.5	9	NA	NA	NA	NA
						02/11/23 12:25 Hrs	456.0	5.0	14	NA	NA	NA	NA
						02/12/23 12:15 Hrs	300.0	6.2	13	NA	NA	NA	NA
						11/01/24 10:10 Hrs	300.0	6.8	14	NA	NA	NA	NA
						02/02/24 12:22 Hrs	625.0	6.3	13	NA	NA	NA	NA
						05/03/24 16:25 Hrs	618.0	5	10	NA	NA	NA	NA


 Checked By
 Dr. Anand Rai
 Vice President (HOD-Environment)


 Prepared By
 P.P. Nandusekar
 Manager (Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
5	Lime Stone De-dusting system stack for Kiln III	Lime Stone Hopper	35	1.4	Bag Filters	25/10/23 12:25 Hrs	538	3.5	12	NA	NA	NA
						08/11/23 12:23 Hrs	575	4.1	10	NA	NA	NA
						02/12/23 15:00 Hrs	575	4.9	14	NA	NA	NA
						11/01/24 12:16 Hrs	311	5.0	12	NA	NA	NA
						07/02/24 14:35 Hrs	585	6.2	14	NA	NA	NA
						06/03/24 15:00 Hrs	585	4	15	NA	NA	NA
6	Kiln - III Stack	Kiln - III	60	1.3	Bag Filters	06/10/23 16:22 Hrs	512	14.0	11	16.0	15.00	18.0
						01/11/23 14:15 Hrs	491	12.0	13	18.0	13.00	19.0
						09/12/23 14:40 Hrs	575	15.2	19	13.0	16.00	18.0
						15/01/24 12:15 Hrs	548	16.0	20	11.0	17.00	26.0
						07/02/24 11:15 Hrs	585	15.6	21	26.0	15.00	17.0
						06/03/24 10:29 Hrs	585	13	23	23.2	19.32	NA
7	Quick Lime & Lime De-dusting system Stack for Kiln III	Lime Storage Hopper	31	0.960	Bag Filters	04/10/23 12:35 Hrs	400	5.5	15	NA	NA	NA
						02/11/23 16:30 Hrs	425	4.8	16	NA	NA	NA
						02/12/23 16:25 Hrs	575	6.2	15	NA	NA	NA
						11/01/24 14:05 Hrs	311	6.9	12	NA	NA	NA
						07/02/24 16:40 Hrs	585	7.0	11	NA	NA	NA
						06/03/24 16:35 Hrs	585	6	11	NA	NA	NA
8	Kiln - IV Stack	Kiln - IV	58	1.3	Bag Filters	06/10/23 10:00 Hrs	580	14.0	15	5.68	12.00	26.42
						01/11/23 16:45 Hrs	580	14.0	19	21.00	17.00	23.00
						09/12/23 16:33 Hrs	584	13.2	15	16.00	13.00	17.00
						15/01/24 16:00 Hrs	553	16.0	20	15.00	19.00	26.00
						10/02/24 10:45 Hrs	565	14.0	20	14.00	23.00	15.00
						06/03/24 12:15 Hrs	590	12	13	24.00	14.00	NA


 Checked By
 Dr. Anand Rai


Vice President (HOD-Environment)


 Prepared By
 P.P. Nandusekar
 Manager (Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NOx	CO
9	Lime Stone De-dusting system stack for Kiln IV	Lime Stone Dedusting System	35	1.4	Bag Filters	23/10/23 15:10 Hrs	568	4.2	10	NA	NA	NA
						08/11/23 14:25 Hrs	580	3.8	13	NA	NA	NA
						04/12/23 14:00 Hrs	580	4.2	10	NA	NA	NA
						11/01/24 15:35 Hrs	553	4.0	14	NA	NA	NA
						10/02/24 12:11 Hrs	565	4.8	13	NA	NA	NA
						07/03/24 15:31 Hrs	590	4	14	NA	NA	NA
10	Lime De-dusting system Stack for Kiln IV	Lime Dedusting System	31	0.960	Bag Filters	04/10/23 15:40 Hrs	495	4.2	13	NA	NA	NA
						08/11/23 16:45 Hrs	580	4.5	15	NA	NA	NA
						04/12/23 16:25 Hrs	580	5.1	16	NA	NA	NA
						11/01/24 16:45 Hrs	553	4.2	15	NA	NA	NA
						10/02/24 16:44 Hrs	565	5.2	15	NA	NA	NA
						07/03/24 16:55 Hrs	590	6	16	NA	NA	NA
CPCB Norms							<100	NA	100	NA	NA	

Plant Capacity: 2.0 MTPA												
1	Flue Gas Ejector Stack	Reformer	40	2.851	LD Fan	05/10/23 16:45 Hrs	3812.0	38.5	6	12.6	8.1	11.0
						18/11/23 16:50 Hrs	3913.0	40.0	12	25.0	28.0	33.0
						01/12/23 16:45 Hrs	3899.0	38.5	11	16.8	17.6	15.8
						25/01/24 16:35 Hrs	4226.0	39.5	13	16.4	6.1	10.6
						04/02/24 10:25 Hrs	3378.0	40.0	10	26.0	28.0	33.0
						14/03/24 16:50 Hrs	4017.0	39	9	31.3	9.4	NA
2	Furnace Dust Collector Stack	Furnace	30	0.9	Cyclone & Venturi Scrubber	05/10/23 10:00 Hrs	3812.0	5.5	13	NA	NA	NA
						07/11/23 12:05 Hrs	4026.0	5.8	18	NA	NA	NA
						01/12/23 10:20 Hrs	3899.0	6.8	19	NA	NA	NA
						25/01/24 12:20 Hrs	4226.0	7.2	16	NA	NA	NA
						15/02/24 15:50 Hrs	4217.0	12.8	19	NA	NA	NA
						14/03/24 11:15 Hrs	4017.0	11	20	NA	NA	NA


 Prepared By
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 Checked By
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 Vice President (HOD-Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
3	Screen Dust Collector Stack C304	Prodct screen Area	30	0.9	Venturi Scrubber	05/10/23 12:23 Hrs	3812.0	4.6	17.0	NA	NA	NA
						18/11/23 14:35 Hrs	3913.0	4.9	15.0	NA	NA	NA
						01/12/23 12:18 Hrs	3899.0	5.6	22.0	NA	NA	NA
						10/01/24 10:25 Hrs	3996.0	6.2	18	NA	NA	NA
						06/02/24 14:35 Hrs	3674.0	4.4	21	NA	NA	NA
						14/03/24 15:25 Hrs	4017.0	5	25	NA	NA	NA
4	Screen Dust Collector Stack I	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	05/10/23 14:25 Hrs	3812.0	5.9	16.4	NA	NA	NA
						18/11/23 10:32 Hrs	3913.0	6.1	21.0	NA	NA	NA
						01/12/23 15:22 Hrs	3899.0	7.2	16.0	NA	NA	NA
						25/01/24 10:05 Hrs	4226.0	7.6	20	NA	NA	NA
						06/02/24 16:10 Hrs	3674.0	7.9	15	NA	NA	NA
						16/03/24 10:05 Hrs	4018.0	7	18	NA	NA	NA
5	Screen Dust Collector Stack II	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	30/10/23 17:00 Hrs	3962	4.3	19.2	NA	NA	NA
						18/11/23 12:05 Hrs	3913	4.1	14.5	NA	NA	NA
						18/12/23 09:15 Hrs	3957	5.1	18.5	NA	NA	NA
						14/01/24 12:20 Hrs	3885	6.0	16	NA	NA	NA
						11/02/24 11:00 Hrs	4243	5.6	12	NA	NA	NA
						16/03/24 12:15 Hrs	4018	5	15	NA	NA	NA
6	Product Silo Dust Collector Stack	Product Silo	30	0.9	Venturi Scrubber	19/10/23 12:25 Hrs	4341	4.1	12.5	NA	NA	NA
						23/11/23 10:35 Hrs	3933	5.0	10.5	NA	NA	NA
						23/11/23 10:35 Hrs	3792	4.8	11.7	NA	NA	NA
						14/01/24 14:33 Hrs	3885	5.3	11	NA	NA	NA
						29/02/24 12:00 Hrs	3183	4.8	10	NA	NA	NA
						16/03/24 14:05 Hrs	4018	6	15	NA	NA	NA
CPCB Norms							< 50					


 Prepared By
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 Manager (Environment)


 Checked By
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 Vice President (HOD-Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³				
									Particulate Matter (PM)	SO ₂	NO _x	CO	
IV	Plant Capacity: 3.5 MTPA												
1	De-Dusting System Stack I	Stock House	45	2.5	Bag Filters	26/10/23 10:00 Hrs	5014.0	16.0	13	NA	NA	NA	
						17/11/23 10:20 Hrs	8514.0	15.0	15	NA	NA	NA	
						16/12/23 14:23 Hrs	4624.0	16.2	29	NA	NA	NA	
						19/01/24 10:35 Hrs	8616.0	8.6	23	NA	NA	NA	
						25/02/24 12:00 Hrs	5510.0	9.9	24	NA	NA	NA	
						15/03/24 11:25 Hrs	4618.0	13	26	NA	NA	0	
2	De-Dusting System Stack II	Stock House	45	2.5	Bag Filters	26/10/23 12:10 Hrs	5014	7.50	22	NA	NA	NA	
						03/11/23 14:35 Hrs	8266	7.80	25	NA	NA	NA	
						16/12/23 10:10 Hrs	4624	7.60	28	NA	NA	NA	
						07/01/24 10:15 Hrs	8806	8.50	32	NA	NA	NA	
						05/02/24 14:00 Hrs	8678	6.02	33	NA	NA	NA	
						19/03/24 11:30 Hrs	5962	19	28	NA	NA	NA	
3	Stove Stack	Blast Furnace Stove	75	5	Heat Exchanger	26/10/23 14:30 Hrs	5014.0	6.80	10	NA	NA	NA	
						03/11/23 16:50 Hrs	8266.0	10.00	16	NA	NA	NA	
						16/12/23 12:25 Hrs	4624.0	7.21	19	NA	NA	NA	
						07/01/24 12:35 Hrs	8806.0	7.42	8	NA	NA	NA	
						05/02/24 14:00 Hrs	8678.0	6.02	12	NA	NA	NA	
						15/03/24 14:15 Hrs	4618.0	10	31	NA	NA	NA	
4	De-Dusting System Cast House	Cast House	45	5.5	Bag Filters	26/10/23 16:42 Hrs	5014.0	12.0	3	22.0	28.0	33.0	
						17/11/23 10:20 Hrs	8514.0	13.0	5	12.0	16.0	12.0	
						16/12/23 16:30 Hrs	4624.0	14.5	3	18.0	21.0	24.0	
						07/01/24 16:45 Hrs	8806.0	13.5	6	26.0	36.0	40.0	
						11/02/24 11:45 Hrs	1209.0	14.5	6	37.0	42.0	11.5	
						16/03/24 16:25 Hrs	5427.0	13	6	8.0	123.0	NA	

Checked By
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Vice President (HOO-Environment)


Prepared By
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Manager (Environment)

Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
5	16 TPH Boiler Stack	16 TPH Boiler	59.5	1.2	Blower	17/10/23 14:30 Hrs	210.0	5.80	19	18.0	12.0	25.0
						20/11/23 15:30 Hrs	82.0	6.20	16	14.0	13.0	28.0
						25/12/23 15:00 Hrs	105.0	7.60	16	15.0	17.0	16.0
						03/01/24 10:20 Hrs	233.0	7.60	18	15.0	17.0	28.0
						28/02/24 12:00 Hrs	5631.0	6.50	19	16.0	24.0	21.0
						27/03/24 16:30 Hrs	116.0	7	17	14.0	23.0	NA
6	Coal Injection Plant	Coal Injection Unit	60.5	1.7	Bag Filters	17/10/23 16:50 Hrs	8809.0	5.6	27	NA	NA	NA
						20/11/23 10:05 Hrs	5648.0	6.2	28	NA	NA	NA
						25/12/23 10:00 Hrs	8613.0	7.8	33	NA	NA	NA
						03/01/24 12:00 Hrs	8703.0	7.8	30	NA	NA	NA
						02/02/24 16:23 Hrs	4319.0	7.0	34	NA	NA	NA
						27/03/24 10:30 Hrs	5536.0	8	32	NA	NA	NA

V Sinter Plant -I

Plant Capacity: 2.8 MTPA

1	Fuel Bag Filter Stack	Fuel Raw Material Crushing House	40	1.804	Bag Filters	10/10/23 10:10 Hrs	7053.0	4.90	17	NA	NA	NA
						09/11/23 10:00 Hrs	8249.0	5.60	17	NA	NA	NA
						12/12/23 11:45 Hrs	7360.0	6.80	16	NA	NA	NA
						09/01/24 10:10 Hrs	7333.0	5.90	18	NA	NA	NA
						14/02/24 10:15 Hrs	4883.0	6.50	19	NA	NA	NA
						11/03/24 10:45 Hrs	7079.0	5.80	25	NA	NA	NA
2	Flux ESP Stack	Raw Material Crushing & Screening House	50	2.404	Electrostatic Precipitators	10/10/23 12:15 Hrs	7053.0	6.20	19	NA	NA	NA
						09/11/23 12:05 Hrs	8249.0	6.80	20	NA	NA	NA
						14/12/23 14:35 Hrs	7252.0	5.80	19	NA	NA	NA
						09/01/24 12:20 Hrs	7333.0	6.50	21	NA	NA	NA
						14/02/24 12:23 Hrs	4883.0	7.20	23	NA	NA	NA
						11/03/24 12:05 Hrs	7079.0	7.00	26	NA	NA	NA



P.P. Nandusekar
Manager (Environment)



Checked By
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Vice President (HOD-Environment)

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									Particulate Matter (PM)	SO ₂	NO _x	CO
3	Proportioning ESP Stack	Proportioning House	50	2.404	Electrostatic Precipitators	10/10/23 15:35 Hrs	7053.0	6.80	24	NA	NA	NA
						09/11/23 15:25 Hrs	8249.0	5.90	27	NA	NA	NA
						14/12/23 10:00 Hrs	7252.0	5.20	30	NA	NA	NA
						09/01/24 15:25 Hrs	7333.0	7.20	26	NA	NA	NA
						03/02/24 14:35 Hrs	6794.0	7.80	28	NA	NA	NA
						11/03/24 14:35 Hrs	7079.0	7.20	29	NA	NA	NA
4	Main Stack	Sintering House	140	4.200	Electrostatic Precipitators	20/10/23 16:50 Hrs	7441.0	9.08	35	25.00	29.00	38.00
						02/11/23 10:20 Hrs	4559.0	9.01	31	26.00	32.00	44.00
						14/12/23 12:00 Hrs	7252.0	9.24	32	15.00	14.00	32.00
						22/01/24 10:40 Hrs	7368.0	9.07	39	22.00	26.00	33.00
						03/02/24 11:15 Hrs	6794.0	8.98	41	19.00	14.00	34.00
						07/03/24 11:22 Hrs	7298.0	8.30	40	19.33	16.75	NA
5	Product Sinter Sizing & Discharge End ESP Stack	Product Sinter Sizing House & Product Discharge End	60	4.508	Electrostatic Precipitators	20/10/23 15:15 Hrs	7441.0	9.65	30	NA	NA	NA
						02/11/23 14:35 Hrs	4559.0	9.29	34	NA	NA	NA
						12/12/23 15:25 Hrs	7360.0	10.50	36	NA	NA	NA
						22/01/24 16:05 Hrs	7368.0	12.24	28	NA	NA	NA
						03/02/24 16:33 Hrs	6794.0	5.83	26	NA	NA	NA
						23/03/24 10:00 Hrs	5866.0	8.67	33	NA	NA	NA

Plant Capacity: 2.5 MTPA

VI Sinter Plant -II												
Main ESP		Sinter Machine	85	5.5	Electrostatic Precipitators	Plant Capacity: 2.5 MTPA						
I						20/10/23 10:30 Hrs	8452.0	18.2	19	15.0	18.0	24.0
						16/11/23 10:15 Hrs	8862.0	16.7	25	17.0	36.0	42.0
						19/12/23 16:38 Hrs	8305.0	15.8	27	17.0	19.0	35.0
						05/01/24 10:32 Hrs	6917.0	14.5	42.2	16.0	20.0	9.8
						05/02/24 17:45 Hrs	8494.0	14.9	41.2	31.0	23.0	42.0
					26/03/24 11:30 Hrs	8151.0	17.8	32.0	16.2	19.1	24.0	


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									Particulate Matter (PM ₁₀)	SO ₂	NO _x	CO
2	Bag Filter- 1 (Flux/Fuel Crush Or Building	Crusher Building	35	4.7	Bag Filters	07/10/23 10:10 Hrs	8401.0	5.5	10	NA	NA	NA
						11/11/23 10:00 Hrs	9057.0	6.1	12	NA	NA	NA
						18/12/23 10:05 Hrs	8189.0	6.8	15	NA	NA	NA
						05/01/24 10:32 Hrs	6917.0	14.5	42	16.0	20.0	9.8
						05/02/24 17:45 Hrs	8494.0	14.9	41	31.0	23.0	42.0
						26/03/24 11:30 Hrs	8151.0	17.8	32	18.2	19.1	NA
3	Bag Filter- 2 (Flux/Fuel Screen Building)	Screen Building	35	1.4	Bag Filters	07/10/23 12:20 Hrs	8401.0	3.8	17	NA	NA	NA
						11/11/23 12:15 Hrs	9057.0	4.1	19	NA	NA	NA
						18/12/23 12:22 Hrs	8189.0	5.8	17	NA	NA	NA
						04/01/24 12:15 Hrs	8352.0	6.5	13	NA	NA	NA
						12/02/24 10:30 Hrs	8333.0	6.0	12	NA	NA	NA
						24/03/24 10:30 Hrs	7284.0	6.2	14	NA	NA	NA
4	Bag Filter- 3(Near Sinter Product Screen Building)	Sinter Product Screen Building	29	1.0	Bag Filters	07/10/23 14:30 Hrs	8401.0	4.2	13	NA	NA	NA
						11/11/23 14:45 Hrs	9057.0	5.2	16	NA	NA	NA
						18/12/23 15:11 Hrs	8189.0	6.2	12	NA	NA	NA
						04/01/24 15:00 Hrs	8352.0	7.2	18	NA	NA	NA
						12/02/24 12:00 Hrs	8333.0	5.8	19	NA	NA	NA
						24/03/24 12:22 Hrs	7284.0	5.0	16	NA	NA	NA
5	Bag Filter- 4 (Near Sinter Product Crusher & HLQRF)	Sinter Product Crusher & HLQRF	22	0.9	Bag Filters	09/10/23 10:30 Hrs	8579.0	5.8	18	NA	NA	NA
						11/11/23 16:25 Hrs	9057.0	6.1	24	NA	NA	NA
						18/12/23 16:33 Hrs	8189.0	5.6	19	NA	NA	NA
						06/01/24 10:15 Hrs	7780.0	6.2	22	NA	NA	NA
						12/02/24 16:42 Hrs	8333.0	5.2	21	NA	NA	NA
						24/03/24 16:42 Hrs	7284.0	4.3	23	NA	NA	NA

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Dr. Anand Rai

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Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
6	Bag Filter- 5 (Near Banker House & JHO8)	Banker House & JHO8	32	0.9	Bag Filters	09/10/23 12:05 Hrs	8579.0	4.9	20	NA	NA	NA
						16/11/23 12:20 Hrs	8862.0	5.7	24	NA	NA	NA
						19/12/23 10:18 Hrs	8305.0	4.3	18	NA	NA	NA
						06/01/24 12:00 Hrs	7780.0	5.8	26	NA	NA	NA
						16/02/24 10:12 Hrs	8910.0	4.5	22	NA	NA	NA
						25/03/24 10:25 Hrs	8446.0	4.1	26	NA	NA	NA
7	Bag Filter- 6(Banker House)	Banker House	33.5	1.0	Bag Filters	09/10/23 15:15 Hrs	8579.0	3.6	13	NA	NA	NA
						16/11/23 14:22 Hrs	8862.0	4.2	13	NA	NA	NA
						19/12/23 12:31 Hrs	8305.0	4.0	10	NA	NA	NA
						06/01/24 14:25 Hrs	7780.0	5.0	14	NA	NA	NA
						16/02/24 12:18 Hrs	8910.0	4.0	12	NA	NA	NA
						25/03/24 12:22 Hrs	8446.0	3.7	12	NA	NA	NA
8	Bag Filter- 7 (Fuel Storage Crusher Building)	Fuel Storage Crusher Building	33.5	0.8	Bag Filters	27/10/23 14:25 Hrs	8841.0	4.6	12	NA	NA	NA
						16/11/23 16:50 Hrs	8862.0	3.9	13	NA	NA	NA
						19/12/23 14:10 Hrs	8305.0	4.8	14	NA	NA	NA
						06/01/24 16:40 Hrs	7780.0	4.2	16	NA	NA	NA
						16/02/24 16:50 Hrs	8910.0	5.0	15	NA	NA	NA
						25/03/24 15:38 Hrs	8446.0	4.4	17	NA	NA	NA
VII Captive Power Plant (55 MW)												


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									Particulate Matter (PM)	SO ₂	NO _x	CO	
VIII Billet Caster & Bar Mill (1.5 & 1.4 MTPA)													
1	Billet Caster Stack	Ladle Heating Furnace	80	2.0	Fume extraction system	11/10/23 14:35 Hrs	365.0	10.5	6	16.0	15.0	20.0	
						05/11/23 14:25 Hrs	3585.0	8.9	14	12.0	16.0	14.0	
						23/12/23 12:25 Hrs	1473.0	7.8	17	12.0	15.0	20.6	
						08/01/24 14:25 Hrs	3218.0	7.2	13	12.0	15.0	20.6	
						19/02/24 15:45 Hrs	1801.0	8.0	10	12.0	18.0	10.3	
2	Bar Mill Stack	Reheating Furnace	80	3.0	Bag Filter	28/03/24 16:42 Hrs	2270.0	7.6	12	12.7	15.8	NA	
						11/10/23 11:25 Hrs	758.0	15.0	9	16.0	19.0	26.0	
						20/11/23 12:05 Hrs	3257.0	13.5	10	16.0	18.0	23.0	
						23/12/23 10:15 Hrs	3872.0	12.2	7	16.0	13.0	18.0	
						08/01/24 10:40 Hrs	2346.0	13.5	8	14.0	12.0	18.0	
						06/02/24 12:00 Hrs	3500.0	16.0	9	14.0	21.0	26.0	
						28/03/24 14:30 Hrs	3460.0	15.4	6	14.0	16.0	NA	
						CPCB Norms			<50	NA	NA	NA	

IX Coke oven Plant -II

Plant Capacity: 2.5 MTPA

1	Coke Oven Battery Main Stack 1		150	11.0	Electrostatic Precipitators	28/10/23 10:25 Hrs	7142.0	10.8	32	112.0	118.0	122.0
						05/11/23 16:55 Hrs	7137.0	10.6	38	86.0	105.0	123.0
						21/12/23 11:23 Hrs	7140.0	11.2	44	126.0	132.0	144.0
						17/01/24 15:35 Hrs	7127.0	12.0	46	110.0	128.0	133.0
						19/02/24 12:10 Hrs	6210	11.4	45	99	144	158
2	Coke Oven Battery Pushing Side		30	2.8	Bag Filters	22/03/24 11:30 Hrs	6440	10.1	37	127	131	NA
						11/10/23 10:00 Hrs	6556.0	4.2	6	NA	NA	NA
						06/11/23 10:05 Hrs	7136.0	4.3	8	NA	NA	NA
						06/12/23 10:20 Hrs	7403.0	5.2	10	NA	NA	NA
						17/01/24 10:10 Hrs	7127.0	6.2	10	NA	NA	NA
						08/02/24 10:12 Hrs	7043	6.8	9	NA	NA	NA
						01/03/24 10:25 Hrs	6586	6	4	NA	NA	NA


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Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
3	Coke Oven Battery Charging Side		29.5	1.5	Bag Filters	11/10/23 11:20 Hrs	6556.0	4.8	4	NA	NA	NA
						06/11/23 12:35 Hrs	7136.0	3.5	10	NA	NA	NA
						06/12/23 12:25 Hrs	7403.0	4.9	9	NA	NA	NA
						17/01/24 11:45 Hrs	7127.0	5.2	10	NA	NA	NA
						08/02/24 11:45 Hrs	7043	6	10	NA	NA	NA
4	Coal Crushing		19.5	1.5	Bag Filters	01/03/24 12:05 Hrs	6586	5.27	5	NA	NA	NA
						11/10/23 14:35 Hrs	6556.0	3.8	12	NA	NA	NA
						06/11/23 16:25 Hrs	7136.0	4.5	14	NA	NA	NA
						07/12/23 15:45 Hrs	7425.0	5.5	16	NA	NA	NA
						16/01/24 10:25 Hrs	7119.0	6.2	19	NA	NA	NA
5	Coke Cutting		25	1.8	Bag Filters	09/02/24 16:22 Hrs	7166.0	4.5	18	NA	NA	NA
						04/03/24 10:30 Hrs	6503.0	5.2	16	NA	NA	NA
						09/10/23 09:50 Hrs	6573.0	4.0	12	NA	NA	NA
						07/11/23 10:35 Hrs	6913.0	5.0	16	NA	NA	NA
						07/12/23 10:15 Hrs	7425.0	6.2	15	NA	NA	NA
6	Coke Bunker		30	2.5	Bag Filters	16/01/24 12:04 Hrs	7119.0	5.8	17	NA	NA	NA
						09/02/24 14:35 Hrs	7166.0	5.0	16	NA	NA	NA
						04/03/24 15:25 Hrs	6503.0	4.2	13	NA	NA	NA
						11/10/23 15:50 Hrs	6556.0	5.1	15	NA	NA	NA
						07/11/23 16:25 Hrs	6913.0	6.8	14	NA	NA	NA
7	Boiler		30	1.0		06/12/23 15:10 Hrs	7403.0	8.1	17	NA	NA	NA
						16/01/24 14:32 Hrs	7119.0	7.2	20	NA	NA	NA
						08/02/24 14:33 Hrs	7043.0	7.0	21	NA	NA	NA
						04/03/24 12:20 Hrs	6503.0	6.0	18	NA	NA	NA
						17/10/23 12:00 Hrs	354.0	7.5	16	16.0	12.0	26.0
			30	1.0		13/11/23 12:45 Hrs	117.0	6.9	19	16.0	14.0	28.0
						05/12/23 12:00 Hrs	307.0	9.8	18	12.0	13.0	16.0
						03/01/24 14:28 Hrs	335.0	7.8	15	18.0	12.0	20.0
						28/02/24 14:05 Hrs	317.0	8.0	16	15.0	18.0	22.0
						18/03/24 14:30 Hrs	265.0	7.1	15	10.0	15.0	NA



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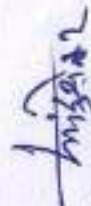
Sr. No.	Name of the Plant and Stack	Stack connected to (Name of the Unit)	Height of the Stack (m)	Diameter of the Stack (m)	Pollution Control unit provided	Date & time of Monitoring	Production fig. of the unit, during the monitoring period (TPD and MWh)	Velocity m/sec	Parameters mg/Nm ³			
									Particulate Matter (PM)	SO ₂	NO _x	CO
1	Coke Oven Battery Main Stack (C & D)		150	11.04	Natural Draft	28/10/23 16:00 Hrs	7142.0	8.2	25	116.0	123.0	133.0
						22/11/23 15:15 Hrs	7081.0	9.8	35	145.0	124.0	188.0
						20/12/23 16:18 Hrs	7168.0	10.0	32	120.0	142.0	138.0
						13/01/24 16:35 Hrs	7070.0	12.0	38	119.0	112.0	128.0
						27/02/24 15:45 Hrs	6409.0	11.8	35	215.0	126.0	132.0
						21/03/24 11:20 Hrs	6260.0	12.5	33	122.0	119.0	NA
2	Coke Oven Battery Pushing Side		30	2.8	Bag Filters	28/10/23 10:00 Hrs	7142.0	5.2	6	NA	NA	NA
						22/11/23 10:05 Hrs	7081.0	4.2	7	NA	NA	NA
						20/12/23 10:22 Hrs	7168.0	5.6	8	NA	NA	NA
						13/01/24 10:00 Hrs	7070.0	6.2	10	NA	NA	NA
						27/02/24 11:38 Hrs	6409.0	7.2	8	NA	NA	NA
						02/03/24 10:10 Hrs	6597.0	6.5	12	NA	NA	NA
3	Coke Oven Battery Charging Side		29.5	1.5	Bag Filters	28/10/23 12:10 Hrs	7142.0	4.5	4	NA	NA	NA
						22/11/23 11:55 Hrs	7081.0	3.5	10	NA	NA	NA
						20/12/23 12:00 Hrs	7168.0	4.8	11	NA	NA	NA
						13/01/24 12:10 Hrs	7070.0	5.0	12	NA	NA	NA
						27/02/24 10:15 Hrs	6409.0	6.8	10	NA	NA	NA
						02/03/24 11:45 Hrs	6597.0	6.8	11	NA	NA	NA



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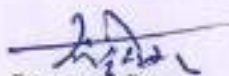
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JSW STEEL LIMITED

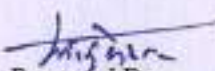
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WORK PLACE AIR QUALITY MONITORING REPORT

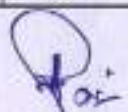
Sr. No.	LOCATION	DATE	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NOX ($\mu\text{g}/\text{m}^3$)
A) Sponge Iron Plant					
1	Near Raw Material Handling Area	18-10-2023	1097	4.2	18.5
		04-11-2023	1939	4.7	20.0
		06-12-2023	1760	5.5	21.6
		16-01-2024	1812	3.7	16.2
		13-02-2024	1839	6.3	21.6
		01-03-2024	1725	6.6	22.4
2	Near Raw Material Feeding Area	19-10-2023	1521	5.1	15.1
		04-11-2023	1730	5.1	16.4
		05-12-2023	1564	5.8	15.8
		16-01-2024	1537	3	10.3
		13-02-2024	1792	5.8	19.9
		01-03-2024	1464	6.1	17.1
3	Near Raw Material Screen Area	19-10-2023	1859	4.8	24.7
		04-11-2023	1814	5.7	24.7
		06-12-2023	1592	6.6	23.8
		16-01-2024	1738	3.3	21.1
		13-02-2024	1451	6.6	30.8
		01-03-2024	1497	6.3	28.2
4	Near Raw Material Silo	19-10-2023	950	4.7	12.3
		04-11-2023	1727	3.9	16.2
		06-12-2023	1127	4.2	17.7
		17-01-2024	1752	3.4	12.3
		13-02-2024	1573	4.2	20.8
		01-03-2024	1640	4.7	27.0
5	Near Furnace Area	18-10-2023	1790	5.7	16.7
		06-11-2023	1846	7.5	15.0
		05-12-2023	1716	6.9	16.7
		16-01-2024	1531	4.5	15.9
		13-02-2024	1884	8.4	19.4
		02-03-2024	1731	7.8	22.1
6	Near Product Screen House	18-10-2023	1900	3.9	13.1
		06-11-2023	1893	5.6	11.7
		05-12-2023	1824	5.9	10.9
		17-01-2024	1621	3.7	12.5
		14-02-2024	1820	6.7	18.7
		02-03-2024	1672	7.2	22.6


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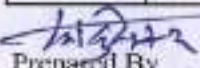

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7	Near Product Silo	19-10-2023	641	6.2	19.1
		06-11-2023	1441	4.5	19.3
		05-12-2023	1588	6.3	22.8
		17-01-2024	1658	4.5	18.5
		14-02-2024	1426	6.3	22.8
		02-03-2024	1654	6.6	21.1
8	Loading Point	19-10-2023	1592	5.8	12.3
		06-11-2023	1624	4.7	14.6
		06-12-2023	1832	3.9	16.2
		17-01-2024	1851	2.9	13.9
		14-02-2024	1880	4.7	21.6
		02-03-2024	1772	4.5	23.9
B) Hot Strip Mill Plant					
1	Near Gas Cleaning Plant Stack - I Control Room	06/10/2023	1871	3.7	25.2
		01-11-2023	2165	2.9	25.4
		01-12-2023	1937	3.9	27.0
		06-01-2024	1982	2.9	16.2
		10-02-2024	1989	3.9	27.0
		05-03-2024	1268	4.7	30.1
2	Near Gas Cleaning Plant Stack - II Control Room	07-10-2023	1680	6.0	22.8
		11-01-2023	1813	6.3	22.0
		12-01-2023	1748	7.5	18.5
		06-01-2024	1518	4.5	14.1
		10-02-2024	1758	7.8	24.7
		05-03-2024	1091	8.1	22.0
3	Near Electric Arc Furnace Shell No. 1 & 2	07-10-2023	2521	6.1	17.0
		11-02-2023	2951	6.3	17.0
		12-01-2023	1567	5.8	20.0
		08-01-2024	1996	4.5	14.7
		10-02-2024	1889	6.3	20.8
		05-03-2024	1298	6.6	22.4
4	Near Electric Arc Furnace Shell No. 3 & 4	06-10-2023	1949	3.8	17.3
		11-03-2023	2836	3.9	19.3
		12-02-2023	1712	2.9	16.2
		08-01-2024	1947	3.2	14.7
		12-02-2024	1759	5.0	16.2
		06-03-2024	972	5.5	21.6
5	Near Caster Control Room	07-10-2023	1099	6.9	16.7
		11-01-2023	1840	6.9	20.3
		12-01-2023	1951	7.5	22.0
		06-01-2024	1591	6.3	18.5
		10-02-2024	1871	7.5	27.3
		05-03-2024	1164	6.6	29.1


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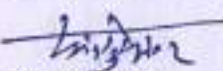

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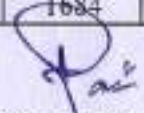
6	Near Mould & Segment Repair Shop	07-10-2023	1169	4.7	12.3
		11-01-2023	2219	4.5	20.8
		12-02-2023	1361	5.0	21.6
		06-01-2024	1931	4.2	17.0
		12-02-2024	1758	5.5	25.4
7	Mill Area	06-03-2024	866	6.3	27.0
		06-10-2023	1957	4.2	14.9
		11-02-2023	2011	4.4	19.9
		12-02-2023	989	5.6	21.2
		06-01-2024	1610	4.2	17.1
		12-02-2024	1378	5.8	21.9
		06-03-2024	815	6.1	25.4
C) Lime Calcining Plant					
1	Near Kiln I & II Lime Dedusting System Area	12-04-2023	1949	6.6	19.3
		11-03-2023	1972	6.0	20.0
		03-04-2024	1212	6.6	24.7
		08-01-2024	1700	3.7	13.9
		09-02-2024	1716	7.1	20.8
		04-03-2024	1212	6.6	24.7
2	Near Product Storage & Quick Lime Building	12-04-2023	1910	6.9	20.3
		11-03-2023	2317	5.4	19.4
		03-04-2024	1382	6.9	30.0
		08-01-2024	1165	5.1	13.2
		09-02-2024	1912	6.6	25.6
		04-03-2024	1382	6.9	30.0
3	Lime Stone Feeding Building LCP-4	09-10-2023	2692	4.4	13.8
		11-03-2023	1648	5.8	13.9
		12-04-2023	1865	5.5	13.1
		08-01-2024	1983	3.2	12.3
		09-02-2024	1848	8.1	16.2
		04-03-2024	1248	8.4	19.3
4	Lime Dedusting System Area LCP-4	09-10-2023	2000	5.7	16.7
		11-03-2023	2221	4.2	16.7
		12-04-2023	1907	4.8	18.5
		08-01-2024	1929	3.3	12.3
		09-02-2024	1676	5.4	22.0
		04-03-2024	1127	5.1	23.8
D) Blast Furnace					
1	Near Stock House	12-10-2023	1959	3.6	18.3
		11-08-2023	2779	4.5	20.4
		12-07-2023	1958	5.7	19.5
		18-01-2024	1966	3.6	16.8
		03-02-2024	1998	6.7	22.2
		08-03-2024	1644	7.3	25.7


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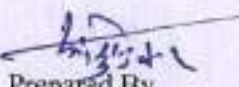

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2	Near Stove Area	12-10-2023	1375	4.8	19.4
		11-08-2023	1423	3.4	19.3
		12-07-2023	1931	3.9	20.8
		18-01-2024	1092	2.9	13.1
		03-02-2024	1819	3.9	20.8
		08-03-2024	1787	4.7	23.9
3	Near Cast House (East)	12-10-2023	1247	5.4	14.1
		11-08-2023	2058	5.0	18.5
		12-08-2023	1878	5.5	23.9
		18-01-2024	1927	3.4	17.0
		03-02-2024	1756	6.0	27.0
		09-03-2024	1589	5.8	27.8
4	Near Cast House (West)	12-10-2023	1138	4.2	15.8
		09-11-2023	2258	4.5	18.5
		12-07-2023	1926	7.5	19.4
		18-01-2024	1822	4.2	14.1
		02-05-2024	1820	7.5	22.9
		09-03-2024	1763	7.8	22.0
5	Near Slag Granulation Plant	12-10-2023	2346	4.2	9.2
		11-08-2023	1173	4.7	11.6
		12-07-2023	1984	6.0	13.1
		18-01-2024	1622	3.4	9.3
		03-02-2024	1394	7.1	11.6
		08-03-2024	906	7.4	16.2
6	Near Pig Casting Machine -I	12-10-2023	2205	4.6	13.6
		09-11-2023	1576	2.9	14.6
		08-12-2023	1857	5.8	17.0
		18-01-2024	1515	3.2	13.9
		02-05-2024	1823	6.8	21.6
		09-03-2024	1156	7.6	22.4
E) Sinter Plant-I					
1	Near Flux & Coal Crushing House	10-10-2023	1821	4.8	20.2
		11-10-2023	2814	4.5	19.4
		12-09-2023	1460	7.2	20.2
		13-01-2024	1828	3.3	9.7
		05-02-2024	1916	6.9	21.1
		07-03-2024	1770	7.5	22.0
2	Near Flux Screening & Coal Crushing House	10-10-2023	2852	4.7	20.1
		11-10-2023	2124	4.5	20.0
		12-09-2023	1200	4.7	19.3
		13-01-2024	1248	3.7	17.7
		05-02-2024	1631	6.3	23.9
		07-03-2024	1684	7.1	27.8


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3	Near Proportioning House	11-10-2023	2607	4.2	21.1
		11-10-2023	2881	5.7	21.1
		12-09-2023	1482	6.3	20.3
		13-01-2024	1605	4.5	14.1
		05-02-2024	1971	7.8	28.2
		07-03-2024	1592	8.7	29.1
4	Near Sintering House	10-10-2023	2592	4.2	15.5
		11-09-2023	1682	3.9	11.6
		12-09-2023	1465	3.7	13.1
		13-01-2024	1431	4.7	11.6
		06-02-2024	1331	6.3	13.9
		07-03-2024	1550	6.6	17.0
5	Near Product Screen House	10-10-2023	2693	4.7	12.3
		11-09-2023	2942	4.2	17.7
		12-09-2023	1687	4.7	16.2
		13-01-2024	1985	5.0	14.7
		06-02-2024	1990	5.5	10.8
		08-03-2024	1600	5.8	11.6
F) Sinter Plant-II					
1	Near Sintering House	11-10-2023	2487	5.1	22.8
		11-11-2023	2229	4.5	19.3
		12-12-2023	1924	5.1	22.0
		11-01-2024	1883	4.2	18.5
		06-02-2024	1937	3.6	24.6
		11-03-2024	1736	7.5	22.9
2	Near Crushing Bldg.	11-10-2023	1907	3.3	12.3
		13-11-2023	1869	4.9	13.0
		12-12-2023	1973	5.4	10.3
		11-01-2024	1992	3.0	11.7
		07-02-2024	1865	5.1	10.3
		11-03-2024	1761	4.9	12.3
3	Near Screen Building	11-10-2023	2122	3.4	13.1
		13-11-2023	2020	3.4	16.2
		12-12-2023	1952	3.9	17.7
		11-01-2024	1978	3.2	12.3
		07-02-2024	1969	5.0	20.0
		11-03-2024	1727	6.0	17.0
4	Near Product Screen Bldg.	11-10-2023	2725	6.6	14.1
		11-11-2023	2874	5.7	12.3
		12-12-2023	1801	5.1	19.4
		11-01-2024	1981	4.5	15.0
		06-02-2024	1984	6.3	20.3
		11-03-2024	1757	5.7	22.1


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5	Near Mixing & Nodulizer Area	11-10-2023	1675	4.5	13.9
		11-11-2023	2704	3.9	14.6
		12-12-2023	1903	3.7	20.8
		11-01-2024	1900	2.9	14.7
		06-02-2024	1954	5.8	18.5
		12-03-2024	1649	6.6	21.6
6	Near Sintering Machine	11-10-2023	1450	4.2	9.2
		11-11-2023	1278	4.5	17.0
		12-12-2023	849	4.7	20.0
		11-01-2024	1667	3.4	12.3
		07-02-2024	1934	6.6	21.6
		12-03-2024	1465	5.8	18.5

G) BILLET CASTER

1	Near Laddel Furnace Area	17-10-2023	1819	4.5	22.9
		11-07-2023	1158	5.1	23.7
		13-12-2023	1516	5.7	22.8
		12-01-2024	1758	4.2	15.8
		08-02-2024	1974	6.9	22.9
		19-03-2024	1622	7.5	25.5
2	Near Casting Floor (Control room) 10.6 m	17-10-2023	2315	4.5	13.9
		11-07-2023	1689	5.0	19.2
		13-12-2023	1702	5.5	22.3
		12-01-2024	1908	3.4	12.3
		08-02-2024	1980	6.5	20.7
		20-03-2024	1796	7.6	18.4
3	Near Billet Caster Torch Cutter Machine	17-10-2023	1442	6.3	16.7
		11-07-2023	1419	6.6	20.2
		13-12-2023	1072	6.9	19.4
		12-01-2024	1542	5.1	18.5
		08-02-2024	1983	8.1	25.5
		20-03-2024	1625	9.3	27.3

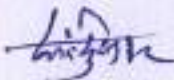
H) BAR MILL

1	Near CP2 Furnace Mill	17-10-2023	1588	2.1	11.5
		11-07-2023	1354	3.9	11.5
		14-12-2023	1223	6.5	13.8
		12-01-2024	1673	4.2	16.1
		08-02-2024	1859	6.3	19.2
		20-03-2024	1736	7.6	22.2
2	Near Bed Cooling (zero meter) Mill Area	17-10-2023	2202	4.2	12.3
		11-07-2023	1798	3.7	14.6
		14-12-2023	1981	3.9	16.9
		12-01-2024	1966	4.5	16.9
		08-02-2024	1934	5.5	20.0
		20-03-2024	1731	7.3	24.6


 Prepared By
 P.P. Nandusekar
 Manager (Environment)


 Checked By
 Dr. Anand Rai
 Vice President (HOD-Environment)

I) Coke oven II					
1	Coal Blending Area.	26-10-2023	1297	5.7	18.6
		13-11-2023	1959	6.3	19.4
		15-12-2023	1866	6.6	22.0
		15-01-2024	1751	4.2	18.5
		19-02-2024	1938	7.8	28.2
		13-03-2024	1786	8.4	30.0
2	coke oven battary wharf Area A	26-10-2023	2165	4.5	17.7
		13-11-2023	1416	3.9	22.3
		15-12-2023	1059	2.9	23.9
		15-01-2024	1722	2.9	20.0
		19-02-2024	1576	5.8	27.0
		13-03-2024	1551	6.6	24.6
3	coke oven battary wharf G D S B	26-10-2023	1835	4.8	24.5
		13-11-2023	2083	3.9	13.2
		14-12-2023	1491	4.5	21.2
		15-01-2024	1996	3.6	19.4
		19-02-2024	1590	7.8	25.6
		13-03-2024	1761	6.3	27.3
4	Coke Screening Area.	26-10-2023	2025	4.2	14.4
		17-11-2023	2003	4.4	15.8
		14-12-2023	1928	5.4	17.8
		15-01-2024	1990	3.7	11.0
		19-02-2024	1491	6.3	24.0
		13-03-2024	1665	5.6	23.3
5	Near Coke Cutter Area.	26-10-2023	2183	3.6	17.5
		17-11-2023	1822	5.8	18.5
		14-12-2023	1835	6.8	16.2
		15-01-2024	1705	3.4	13.1
		20-02-2024	1816	7.6	20.8
		14-03-2024	1741	8.1	21.6
6	Secondary Crusher BIENDING	26-10-2023	1989	3.1	13.7
		17-11-2023	1272	3.9	17.0
		14-12-2023	1821	5.0	17.7
		15-01-2024	1741	4.5	17.0
		20-02-2024	1714	6.3	20.0
		14-03-2024	1776	9.5	19.3


Prepared By
P.P. Nandusekar

Manager (Environment)


Checked By
Dr. Anand Rai

Vice President (HOD-Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST. - RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : October, 2023

Location	Near Kasanvada Temple					Near Coca Oven Plant					Near Gas Gate					Near MSRB Substation					Near Daboli Village				
	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-10-2023		Problem	7.81	6.28	1.26	22.29	95.52	9.07	24.05	0.94	30.85	36.22	5.85	2.44	0.55	69.09	69.09	3.62	15		25.59	94.67	8.25	11.11	0.93
02-10-2023		41.81	8.58	9.35	2.1	26.4	94.21	9.84	34.87	0.96	28.5	51.14	5.9	0.89	0.73	63.54	63.54	3.63	15.01		36.25	70.36	12.92	11.87	0.75
03-10-2023		99.53	8.22	9.64	1.15	13.15	89.02	9.86	20.7	0.72	36.75	67.81	6.17	5.28	0.42	37.81	75.55	3.7	14.99		48.53	92.36	13.62	12.23	0.77
04-10-2023		Filter	7.72	6.95	0.85	16.71	88.58	9.88	13.95	0.75	34.82	71.37	5.09	10.03	0.52	38.75	94.14	3.5	15.01		56.17	91.14	13.01	14.96	0.77
05-10-2023		Problem.	7.52	6.49	0.81	19.96	92.59	9.96	13.56	0.84	42.72	77.04	5.8	10.48	0.48	31.97	77.21	3.44	15.02		57.64	92.36	11.98	16.37	0.79
06-10-2023		95.52	9.14	11.87	0.77	23.58	79.08	9.91	15.48	0.69	37.46	70.62	5.63	10.78	0.42	30.22	66.36	3.31	15.02		57.83	92.315	12.16	17.09	0.92
07-10-2023		99.21	8.04	14	0.9	32.84	78.11	9.85	12.9	0.73	42.57	74.85	6.25	17.42	0.44	46.06	95.36	3.18	15.01		53.59	89.25	11.92	15.48	0.96
08-10-2023		91.36	7.89	31.62	1.03	25.57	92.08	9.91	15.23	0.78	30.82	79.03	6.58	18.61	0.56	32.07	70.36	3.34	15.01		60.3	88.25	11.4	15.72	0.96
09-10-2023		97.36	7.77	35.53	0.95	30.73	81.95	9.86	15.16	0.75	47.96	78.11	6.65	15.24	0.58	50.44	92.36	3.42	15.02		51.17	74.66	11.95	16.27	0.93
10-10-2023		95.77	7.65		0.95	22.84	86.64	9.94	17.74	0.77	47.04	92.03	6.04	18.52	0.57	36.36	92.14	3.14	15.04		54.61	76.36	12.12	17.67	0.89
11-10-2023		90.25	7.58		0.97	29.88	83.95	9.98	23.51	0.81	41.94	81.95	5.51	16.38	0.53	24.08	93.36	3.35	15.03		55.21	82	12.04	12.58	0.99
12-10-2023		90.88	7.67		0.96	28.63	92.92	9.86	19.23	0.83	49.03	86.64	5.78	22.18	0.57	37.84	92.315	3.85	14.99		59.57	83.36	11.5	14.67	1.1
13-10-2023		89.21	7.85		1.41	43.50	80.7	9.9	15.50	0.85	54.39	83.95	5.53	13.41	0.73	29.52	89.25	3.83	15.13		59.32	88.59	11.63	13.67	0.99
14-10-2023		98.57	7.87		1.43	35.17	74.08	10.01	15.01	0.84	61.66	92.03	5.43	13.57	1.08	40.02	80.25	3.49	15.14		55.73	86.64	10.87	14.37	1.07
15-10-2023		93.74	7.94		1.31	32.28	64.69	9.9	17.8	0.71	47.1	80.2	5.68	10.01	0.71	31.25	78.11	3.47	15.15		67.9	83.95	11.27	14.04	1.11
16-10-2023		79.58	8.57		1.41	67.26	68.26	9.86	17.99	0.79	64.44	89.67	6.34	9.14	0.78	30.75	92.08	3.65	15.1		54.67	92.92	10.89	15.69	0.99
17-10-2023		99.5	8.05	Shown g NA due to the Cooler Assembly	1.28	26.93	51.26	9.86	16.5	0.84	59.08	86.1	6.89	12.86	1.03	20.96	81.95	3.93	15.03		70.71	89.67	9.44	17	1.13
18-10-2023		91.36	8.49		1.45	77.63	62.32	10.04	23.15	0.81	59.9	93.74	6.53	14.66	0.61	20.44	86.64	4.02	15		55.57	86.1	11.72	13.63	1.06
19-10-2023		92.36	8.06		1.1	51.31	68.52	9.85	22.67	0.8	62.9	94.25	6.5	14.73	0.61	21.35	83.55	3.8	15.03		59.51	93.74	11.78	14.32	1
20-10-2023		91.85	7.99		1.3	35.46	88.56	9.96	18.45	0.84	64.86	97.25	6.48	10.63	0.66	31.67	92.92	3.81	15.04		67.44	92.25	11.14	20.13	1.03
21-10-2023		98.99	8.09		1.31	38.3	92.36	9.76	15.16	0.79	74.08	94.26	6.65	8.29	0.9	25.88	60.2	4.21	15.06		61.53	97.25	11.25	18.94	1.01
22-10-2023		97.84	7.91	Shown g NA due to the Cooler Assembly	1.25	48.62	93.36	10.03	14.28	0.83	44.69	95.31	6.51	8.71	0.81	19.27	80.67	4.17	15.03		54.79	95.32	11.67	18.85	0.95
23-10-2023		55.58	8.15		1.37	48.05	92.36	9.93	20.54	0.92	68.26	94.14	6.12	21.67	0.77	33.73	86.1	4.13	15.03		64.82	94.14	12.37	20.27	0.98
24-10-2023		74.36	8.25		1.28	37.48	91.85	9.98	33.19	0.84	51.26	94.52	5.8	18.7	0.71	23.22	93.74	4.08	15.02		52.29	94.52	12.31	18.44	1.02
25-10-2023		77.88	8.33		1.42	46.85	93.99	9.85	31.41	0.79	62.32	98.6	5.76	20.11	0.7	19.07	94.25	4.32	15.03		73.47	94.6	11.55	16.39	1.11
26-10-2023		59.36	6.22		0.98	93.02	97.94	9.9	29.79	0.9	68.52	97.58	5.87	13.08	0.62	23.85	97.25	4.58	15.02		58.68	97.58	11.79	21.13	1.23
27-10-2023		99.31	3.81		0.75	82.43	55.58	9.86	30.45	0.98	59.96	93.36	6.2	31.71	0.56	44.74	94.26	4.87	10.47		67.64	88.25	11.08	20.58	1.16
28-10-2023		97.39	3.95		0.81	49.15	74.76	9.66	34.87	0.78	56.28	92.74	6.05	32.73	0.55	18.87	94.24	5.76	3.08						
29-10-2023		98.52	3.7		0.73	61.02	77.88	9.87	34.5	0.81	65.12	88.36	5.69	31.94	0.60	22.16	74.69	5.11	3.08						
30-10-2023		84.25	3.68		0.81	46.09	95.36	10.03	25.98	0.95	76.92	89.36	6.1	32.62	0.83	25.75	94.31	4.97	3.05						
31-10-2023		90.26	3.9		0.8	94.15	94.48	9.92	25	0.91	73.06	91.24	6.3	30.92	0.74	19.86	91.38	4.08	3.12						

Prepared by
Dr. P. P. Nandekar
Manager (Environment)

Checked By
Dr. Anand Rai
Vice President (HCO-Environment)

JSW STEEL LIMITED									
GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST - RAIGAD.									
AMBIENT AIR QUALITY MONITORING REPORT									
MONTH : November, 2023									
Location		Near Kasurua Temple				Near Cake Oven Plant			
Date	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX
01-11-2023		95.48	4.52		0.68	47.51	87.54	9.86	33.33
02-11-2023		89.67	4.27		0.73	57.58	89.62	10.06	26.44
03-11-2023		74.81	4.11		0.72	34.78	74.57	9.89	31.68
04-11-2023		98.47	4.05		0.79	46.38	69.85	10.1	32.61
05-11-2023		90.68	4.18		0.91	35.62	78.92	9.88	31.69
06-11-2023		85.61	3.9		0.74	39.85	89.35	9.8	28.91
07-11-2023		87.64	3.93		0.81	36.21	95.62	10.19	33.37
08-11-2023		89.38	4		1.07	34.12	93.68	9.98	34.65
09-11-2023		85.63	4.26		1.64	30.18	97.48	9.97	22.96
10-11-2023		82.68	4		1.11	32.68	98.51	9.68	24.08
11-11-2023	Showing NA due to the	92.54	3.88	Showing NA due to the	0.7	39.56	89.57	9.91	33.4
12-11-2023	to the	98.72	4.01	to the	0.8	47.12	78.45	9.92	23.91
13-11-2023	Detec	99.15	3.95	Detec	0.91	49.38	89.62	9.92	32
14-11-2023	tor	96.35	4.21	tor	1.11	45.19	74.15	9.88	23.07
15-11-2023	Dama	92.58	4.15	Dama	1	43.27	78.84	9.99	21.22
16-11-2023	gen,	87.62	4.25	gen,	1.1	49.42	79.62	9.93	30.54
17-11-2023	is not	85.67	4.21	is not	1.02	51.23	98.35	9.94	26.26
18-11-2023	avail	80.29	4.24	avail	1.01	53.42	82.52	9.7	28.16
19-11-2023		98.45	4.28		1.35	57.48	86.65	9.89	24.33
20-11-2023		87.02	4.13		0.96	50.89	87.48	9.9	21.3
21-11-2023		81.47	4.06		0.94	50.57	85.09	9.82	32.24
22-11-2023		80.95	4.09		0.87	38.45	89.53	9.76	30.34
23-11-2023		89.67	4.02		0.91	37.40	92.68	9.79	23.7
24-11-2023		85.63	4.14		1.09	45.61	93.68	9.95	21.35
25-11-2023		82.64	4.11		0.88	42.75	96.87	9.83	19.68
26-11-2023		95.58	3.94		0.93	43.09	90.27	9.92	15.07
27-11-2023		98.63	3.93		1.02	52.67	85.64	9.92	20.23
28-11-2023		73.62	3.92		0.66	52.64	91.42	9.93	33.08
29-11-2023		86.62	4.08		0.85	48.85	97.54	11.35	34.31
30-11-2023		82.03	4.42		0.81	59.71	80.26	10.15	26.28
Month		Day		Night		Time		Time	
Nov-23		60		60		60		60	
Standards		< 75		< 75		< 75		< 75	


 Dr. P. P. Nandekar
 Manager (Environment)

Checked by
 Dr. Anand Rat
 Vice President (HQ)
 (Signature)

Internet Problem

Internet problem

MIB Board & Chocp or Wheel daming ad. Spore is not available

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : December, 2023

Location	Near Kasamba Temple					Near Cule Green Plant					Near Gas Gate					Near MSB Substation					Near Bodi Village					
	Date	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-12-2023			91.28	5.72		0.9	56.06	95.06	10.41	24.53	1.03	57.9	87.62	6.71	32.62	0.98	16.37	91.18	4.88	3.08		55.09	94.73	11.02	15.62	1.12
02-12-2023			81.3	4.37		1.04	55.38	95.38	10.33	22.81	1.21	54.35	84.18	6.75	38.2	1.15	33.18	95	4.72	3.08		50.08	95.17	12.72	18.40	1.10
03-12-2023			89.3	4.31		1.11	58.05	88.05	10.36	21.08	1.23	51.07	85.62	6.94	30.82	1.03	18.92	95.94	4.56	3.08		52.84	96.06	11.98	14.82	1.24
04-12-2023			90.22	4.23		0.96	56.33	88.33	9.81	24.54	1.18	55.88	84.98	7.05	32.63	1.09	15.76	90.95	4.64	3.07		57.03	79.93	12	14.83	1.18
05-12-2023	Showing		91.85	4.10		0.89	56.67	99.67	9.64	28.72	1.25	65.82	82.03	7.19	33	1.01	26.25	92.7	5.09	3.07		55.92	94.68	11.83	17.26	1.15
06-12-2023	NA due to the		92.31	4.12		0.88	67.03	97.03	9.61	38.53	1.78	60.43	86.18	7.15	31.13	1.02	33.63	95.31	5.28	3.07		58.25	92.42	11.14	16.15	1.12
07-12-2023	Detector		77.1	4.03		0.93	57.06	97.96	9.77	30.98	0.97	53.91	81.79	7.16	37.28	0.97	25.89	96.64	5.23	3.07		52.55	95.58	11.86	14.5	1.07
08-12-2023	Destroyed		83.7	4.27		1.07	57.08	97.08	9.94	26.86	1.02	58.13	76.45	7.13	34.86	1.02	27.91	93.83	5.2	3.07		50.09	99.83	11.78	17.51	1.21
09-12-2023	Spore is not		69.2	4.18		1.15	50.91	50.91	9.95	30	1.31	53.14	77.88	7.14	38.5	1.05	31.01	98.91	5.45	3.08		57.31	90.74	11.76	17.52	1.12
10-12-2023	available		71.03	4.23	Snowfall & NA due to the cooler	0.98	55.62	95.62	9.77	31.83	1.16	53.16	74.09	7.22	37.91	1.12	27.42	98.84	5.43	3.07		57.46	97.55	11.62	18.01	1.23
11-12-2023			86.75	4.2		1.16	56.88	95.88	9.71	31.21	1.23	57.01	86.33	7.23	39.53	1.21	26.32	83.75	5.48	3.07		56.82	98.54	12.29	16	1.32
12-12-2023			70.11	4.26		0.92	58.05	98.05	9.77	33.02	1.15	46.86	81.92	7.59	43.33	0.94	31.01	93.19	5.7	3.07		58.81	95.2	11.44	19.27	1.07
13-12-2023			86.74	4.30		0.94	56.07	95.37	9.62	33.01	1.16	54.46	89.58	7.35	47.45	0.97	25.47	91.94	5.48	3.07		58.99	96.37	12.2	20.43	1.15
14-12-2023			96.69	4.38		1.07	58.09	98.09	9.83	35.9	1.41	55.37	84.1	7.07	41.58	0.96	23.05	97.46	5.44	3.07		56.33	93.53	11.33	17.26	1.14
15-12-2023			97.08	4.42		1.13	5.22	95.22	9.93	36.77	1.3	59.78	91.42	7.04	33.92	0.89	24.06	90.75	5.33	3.07		52.58	90.18	11.77	19.07	1.08
16-12-2023			83.54	4.42	damaged spare is not available	1.02	54.84	84.84	9.91	41.42	1.07	59.18	82.72	7.5	46.81	1	42.9	93.11	5.21	3.07		50.88	90.11	11.7	19.46	1.13
17-12-2023			36.17	4.41		1.11	53.81	93.81	9.86	36.23	1.65	52.1	84.05	7.71	51.24	1.12	24.97	90.31	5.42	3.07		30.3	97.93	11.77	31.27	1.26
18-12-2023			80.59	4.50		1.05	55.77	95.77	9.59	36.71	1.78	59.1	89.59	7.35	41.6	1.01	15.47	93.24	5.67	3.07		50.18	93.34	10.36	16.13	1.27
19-12-2023			36.56	4.6		1.14	55.61	95.61	9.66	33.41	1.52	58.54	86.28	8.08	43.65	0.97	19.93	96.87	5.29	3.07		58.73	97.54	11.92	14.87	1.11
20-12-2023			90.45	4.5		1.1	58.07	99.07	9.71	40.33	0.94	45.68	86.08	8.22	50.17	1.04	20.26	93.17	5.44	3.07		51.04	98.08	12.09	17.65	1.23
21-12-2023			96.22	4.47		1.36	52.89	92.89	9.84	38.05	1.48	52.43	83.11	8.31	48.57	1.23	37	92.32	5.72	3.08		55.44	93.71	12.55	20.84	1.44
22-12-2023			96.42	4.58		1.39	54.99	84.99	9.73	40.34	1.56	52.54	96.51	7.62	50.19	1.34	24.51	92.67	5.75	3.08		54.55	98.77	11.86	19.30	1.0
23-12-2023			32.08	4.56		1.3	57.00	97.00	9.84	46.21	1.52	55.02	88.74	8.07	49.77	1.27	20.68	94.7	5.02	3.08		59.12	98.91	12.21	20.88	1.41
24-12-2023			94.72	4.67		1.39	56.67	96.67	9.47	43.03	1.59	52.54	92.25	7.98	50.61	1.24	36.08	92.02	5	NA		57.54	90.31	12.59	21.33	1.4
25-12-2023			99.61	4.66		1.44	51.88	91.88	9.68	43.26	1.6	54.15	97.28	7.91	53.35	1.29	37.11	94.25	4.98	NA		56.25	98.9	12.75	20.53	1.38
26-12-2023			92.12	4.74		1.66	61.65	91.65	9.68	42.82	1.72	57.14	97.84	8.03	54.32	1.41	35.52	98.55	5.38	NA		58.68	98.47	12.73	22.92	1.59
27-12-2023			92.67	5.34		1.85	55.77	95.77	9.63	44.61	1.48	56.14	86.25	8.08	48.37	1.52	34.39	91.01	4.97	NA		55.23	87.37	12.54	21.1	1.48
28-12-2023			85.6	4.5		1.08	57.15	97.15	9.71	36.24	1.42	55.87	88.8	8.31	49.58	1.61	27.32	93.68	5.18	NA		59.12	92.27	12.21	20.76	1.37
29-12-2023			94.62	4.54		1.37	52.12	92.18	9.94	40.79	1.57	57.18	86.83	8.13	48.85	1.27	56.08	92.1	5.43	7.04		57.15	94.44	11.87	19.53	1.37
30-12-2023			90.41	4.73		1.5	59	99	9.69	36.46	1.11	55.03	81.68	7.85	37.17	1.19	24.85	91.91	5.48	6.82		59.38	98.75	12.23	18.77	1.36
31-12-2023			99.65	4.36		1.22	54.03	94.03	9.62	22.75	1.12	57.26	86.57	6.28	35.4	1.19	23.75	96.03	4.87	6.34		58.55	99.67	10.9	17.56	1.48

Prepared by
Dr. P. P. Nandekar
Manager (Environment)

Checked by
Dr. Anurag K.
Vice President (HRO-Environment)

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : JANUARY, 2024

Locations	Near Kusumthi Tensile					Near Cake Oven Plant					Near Gao Gao					Near MSER Substation					Near Dahal Village				
	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-01-2024	18	90	4.55		1.57	56	92	9.95	27.77	1.17	53	77	8.1	31.7	1.4	54	88	5.2	6.4		57	88	11.9	17	1.5
02-01-2024	17	84	4.49		1.44	40	57	9.92	27.91	1.26	57	81	8.2	37.2	1.4	44	90	5.4	6.4		52	91	12.2	17.5	1.6
03-01-2024	15	74	4.36		1.29	33	41	9.6	26.01	1.39	55	79	8.3	32.5	1.4	50	96	5.6	6.9		54	82	11.8	14.1	1.4
04-01-2024	13	78	4.33		1.25	57	92	9.57	28.58	1.36	51	80	8.8	38	1.3	47	93	5.8	7.2		51	88	12.6	17.6	1.3
05-01-2024	12	78	4.37		1.13	28	55	9.5	32.56	1.12	46	69	8.5	45.1	1.2	44	76	5.5	8.4		58	85	12.8	21	1.3
06-01-2024	13	85	4.44		1.2	28	51	9.84	30.6	1.28	56	90	8.4	32.8	1.3	45	97	5.2	7.9		55	94	11.3	20.1	1.4
07-01-2024	15	98	4.46		1.33	30	57	9.82	29.28	1.4	55	77	8.3	42.2	1.4	49	94	5.7	7		49	90	12.2	17.3	1.4
08-01-2024	15	82	4.35		1.35	27	41	9.62	28.53	1.1	45	72	8.3	38.9	1.3	46	61	5.5	7.1		52	86	13.2	18	1.3
09-01-2024	16	91	4.55		1.47	22	40	9.72	25.53	1.06	33	60	8	28.9	1.1	56	93	5.3	7.2		40	60	12.4	14.4	1
10-01-2024	11	56	4.33	System under maintenance	1.14	27	36	9.88	26.12	0.96	27	56	8.2	30.5	1.1	53	89	5.3	6.9		36	56	12.2	14.9	1.1
11-01-2024	32	72	6.41		1.4	32	61	9.69	27.18	1.25	42	66	8.1	37.8	1.3	54	95	5.4	6.8		56	95	12.2	21.6	1.4
12-01-2024	18	75	5.21		1.66	40	80	8.49	35.39	1.58	53	93	9	50.2	1.6	48	92	5.6	6.7		56	88	12.6	22.4	1.4
13-01-2024	17	83	5.17		1.66	53	92	5.2	32.65	1.3	55	92	9	45.4	1.4	49	88	5.2	6.6		48	95	12.8	20	1.3
14-01-2024	11	60	4.94		1.39	43	88	6.83	33.95	1.16	31	76	9	43.4	1.2	49	86	2.9	11.2	System under maintenance	42	85	12.1	21.6	1.2
15-01-2024	16	45	4.84		1.22	20	47	6.66	29.55	0.86	26	62	8.8	50.7	1	42	92	4.9	7		32	65	12.1	20.4	1.1
16-01-2024	13	35	4.84		1.19	23	66	21.45	32.34	0.53	34	63	8.6	48.3	1.1	42	92	4.9	7		30	64	13.1	26.1	1.1
17-01-2024	11	67	4.87		1.26	54	88	9.97	26.33	0.68	38	65	8.4	31.2	1	45	95	5.2	8.1		27	53	12.2	17.7	1
18-01-2024	11	62	4.91		1.43	51	92	11.78	32.17	0.97	43	58	8.6	34.6	1.1	47	75	5.8	8.6		28	62	12.7	19	1.1
19-01-2024	12	67	4.9		1.51	51	85	10.61	29.81	1.18	47	78	8.8	43.2	1.3	55	62	5.9	8.6		40	86	12.4	23.1	1.4
20-01-2024	23	79	5.96		1.56	46	89	10.06	31.17	1.28	46	69	8.5	35.9	1.2	40	79	6	8.6		34	66	11.6	18.6	1.2
21-01-2024	19	77	5.77		1.81	47	91	10.12	26.67	1.14	53	86	9.2	30	1.3	48	69	5.8	8.5		40	82	12.5	21.5	1.3
22-01-2024	24	93	5.61	11.04	1.93	52	94	6.31	21.88	1.12	44	76	9.2	40.3	1.7	44	62	5.7	8.2		34	67	12	15.7	1.3
23-01-2024	11	61	5.13	13.63	0.99	22	41	4.87	25.88	0.94	43	71	9.3	59.2	1.1	48	81	5.6	8.5		29	67	11.3	19.5	1.2
24-01-2024	12	75	5.02	14.97	1.05	37	34	3.84	37.28	1.24	43	75	9.4	58.7	0.9	46	77	5.4	9.1		36	82	13	25.2	1.3
25-01-2024	13	79	4.94	13.32	1.36	32	88	4.32	37.67	1.42	42	85	9.2	48.3	1.1	55	75	5.7	8.9		40	84	13.2	27.6	1.4
26-01-2024	18	93	5.11	14.83	1.74	62	93	4.14	32.31	1.62	52	91	9.2	43.5	1.5	49	72	5.5	8.6		47	88	13.1	25.7	1.6
27-01-2024	17	94	5.04	12.96	1.29	54	93	3.75	32.15	1.27	51	90	8.5	38.2	1.1	42	93	5.9	9.1		51	92	12.4	27.1	1.4
28-01-2024	15	81	5.03	13.73	1.2	36	88	2.33	32.22	1	40	82	8.8	41.6	1	52	91	5.5	9.3		43	85	13	29.2	1.4
29-01-2024	16	91	5.07	13.88	1.09	33	91	4.34	37.59	0.94	47	89	8.8	47.8	1	48	82	5.2	9.6		43	87	12.7	27.6	1.2
30-01-2024	16	93	5.04	17.41	1.13	20	56	4.43	33.01	1.06	58	92	9.1	53.2	1	50	80	5.5	9.4		52	94	12.7	33.3	1.3
31-01-2024	15	75	4.89	12.35	1.12	27	85	5.12	28.81	1.13	56	91	8.9	43.6	1	49	89	5.2	9.2		47	93	11.9	29	1.3

Standards

PM2.5 µg/m3	60
PM10 µg/m3	100
(SO2), µg/m3	80
(NOX), µg/m3	80
CO (mg/m3)	2



Propagated by
Dr. P. P. Nandhakar
Manager (Environment)

Checked By
Dr. Anand Rai
Vice President (HCO-Environment)

JSW STEEL LIMITED

GEETAPURAM, DOLVI - 402 107, TALUKA - PEN, DIST - RAIGAD.

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : FEBRUARY, 2024

Location	Near Karamba Temple					Near Coca Oven Plant					Near Gas Gate					Near MSEB Substation					Near Bansi Village				
	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-02-2024	13	79	4.91	14.86	1.03	51	91	5.05	27.95	0.97	42	78	8.75	28.69	0.9	38	69	5.06	9.72	NA	45	62	11.58	23.53	1.09
02-02-2024	10	48	4.72	13.36	0.89	51	86	5.31	37.49	0.8	48	80	9.23	29.81	0.87	34	87	4.87	10.37	NA	44	89	12.21	28.36	1.04
03-02-2024	16	88	4.94	16.64	1.24	32	78	5.14	37.83	0.94	55	89	8.94	37.10	0.94	30	87	5.13	8.92	NA	45	79	11.95	23.16	1.14
04-02-2024	21	91	4.96	14.59	1.55	52	97	5.38	30.47	1.35	37	68	9.04	39.96	1.84	41	80	5.13	8.39	NA	55	75	12.14	24.35	1.45
05-02-2024	20	86	5	15.06	1.41	44	68	5.08	33.49	1.26	50	82	8.86	38.17	1.17	45	85	5.16	8.83	NA	54	85	12.38	24.22	1.34
06-02-2024	41	80	4.96	19.11	1.04	37	88	5.05	40.39	1.01	53	90	8.92	41.66	0.95	42	76	5.07	9.94	NA	36	81	11.6	23.43	1.21
07-02-2024	17	70	5.83	18.16	0.86	70	78	5.2	42.96	0.99	52	88	8.97	47.44	0.99	52	59	6.28	9.79	NA	34	91	11.93	25.41	1.18
08-02-2024	16	71	5.53	13.11	0.86	23	89	5.27	36.93	0.96	51	91	5.13	39.63	1.03	47	78	7.33	8.78	NA	35	84	12.5	23.12	1.29
09-02-2024	15	59	5.33	14.51	0.83	36	94	4.91	38.75	0.84	48	92	9.08	42.44	0.94	35	81	7.4	9.4	NA	35	74	11.15	27.22	1.12
10-02-2024	12	61	5.41	14.61	0.84	26	69	5.08	35.63	0.77	47	79	5.63	49.8	0.87	35	84	7.32	10.05	NA	29	73	11.65	26.66	1.18
11-02-2024	12	61	5.37	16.53	0.84	34	93	5.03	34.45	0.91	47	84	9.01	39.08	0.84	29	80	7.1	9.71	NA	37	78	12.22	28.96	1.18
12-02-2024	13	57	5.33	13.69	0.84	27	54	5.24	31.73	0.96	44	89	8.39	38.73	0.85	30	76	7.02	9.66	NA	36	72	11.67	23.32	1.16
13-02-2024	14	64	5.36	12.86	0.94	23	55	4.98	33.72	1.16	42	75	8.53	42.18	0.97	34	77	7.05	9.43	NA	34	69	11.74	23.82	1.19
14-02-2024	15	86	5.47	12.11	0.98	22	53	5.06	35.77	1.32	40	95	9.13	41.95	0.99	41	90	7.05	9.89	NA	29	64	12.48	22.51	1.17
15-02-2024	15	76	5.37	7.62	1.05	18	41	5.34	38.59	1.21	52	87	9.43	46.28	1.1	42	84	6.89	9.59	NA	37	69	12.93	21.91	1.26
16-02-2024	26	82	5.26	11.93	1.5	50	77	5.25	36	1.46	53	76	5.76	41.7	1.4	35	75	7.07	9.15	NA	46	82	13.11	35.71	1.47
17-02-2024	22	80	5.36	11.48	1.41	45	68	4.79	28.4	1.12	46	96	2.82	31.23	1.33	26	54	7.51	9.11	NA	36	80	13.84	23.21	1.26
18-02-2024	21	79	5.83	11.12	1.56	34	82	5.1	32.94	1.53	48	86	2.67	31.01	1.17	43	73	7.95	9.96	NA	32	72	13.66	20.79	1.17
19-02-2024	16	75	5.28	12.1	1.23	43	71	5.07	29.82	1.19	38	77	2.89	29.6	0.93	29	70	9	10.41	NA	37	73	12.45	22.64	1.22
20-02-2024	11	38	5.12	12.07	0.91	29	62	5.06	33.49	0.75	32	74	4.05	47.24	0.82	23	84	7.78	11.21	NA	34	63	12.49	31.5	1.01
21-02-2024	12	23	5.18	9.12	0.85	22	65	5.07	27.6	0.8	23	53	4.21	39.22	0.78	16	45	8.08	11.25	NA	24	44	12.9	29.53	0.94
22-02-2024	10	29	5.23	10.57	1.01	16	57	5.96	25.25	0.67	25	57	3.74	26.67	0.82	16	56	8.13	10.69	NA	32	11	12.79	27.16	0.86
23-02-2024	11	35	5.17	8.77	1.35	17	71	2.6	27.95	0.93	29	72	4	34.31	0.81	22	65	8.18	9.83	NA	33	36	10.75	22.89	0.93
24-02-2024	10	72	5.37	12.71	1.55	28	83	5.88	38.82	0.98	52	86	4.32	51.82	0.91	34	83	7.98	10.66	NA	42	93	8.77	24.69	1.11
25-02-2024	11	61	5.17	10.65	1.61	22	43	6.03	34.76	1.17	50	69	3.77	41.35	0.99	31	66	7.8	9.52	NA	32	87	9.17	19.7	1.22
26-02-2024	19	78	5.01	11.85	2.03	33	37	6.14	33.91	1.78	50	67	4.16	36.26	1.63	25	53	7.72	9.15	NA	44	81	8.34	22.31	1.38
27-02-2024	24	68	5.4	10.63	1.69	26	52	6.01	34.87	1.08	43	87	4.01	31.63	0.78	29	69	5.18	9.28	NA	38	62	9.96	22.72	1.25
28-02-2024	38	89	5.59	25.46	1.73	17	39	6.3	36.31	1.15	52	68	4.35	46.49	0.74	36	78	4.8	10.03	NA	26	60	10.15	25.33	1.27
29-02-2024	54	57	6.02	14.47	0.57	16	27	5.86	35.55	1.45	21	47	4.22	49.85	0.97	36	75	4.61	9.63	NA	36	38	8.96	25.26	1.33

Standards


PM2.5 µg/m360


PM10 µg/m3100

(SO2), µg/m380

(NOX), µg/m380

CO (ppm)7


Dr. P. P. Nandakumar
Manager (Environment)


Checked By
Dr. Anand Rai
Vice President (HOD-Environment)

AMBIENT AIR QUALITY MONITORING REPORT

MONTH : MARCH, 2024

Location	Near Kaamata Temple					Near Coke Oven Plant					Near Gas Gate					Near MSEB Substation					Near Dola Village				
	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO	PM2.5	PM10	SO2	NOX	CO
01-03-2024	51	73	5.62	15.49	0.66	17	62	5.79	32.42	1.21	34	65	5.06	31.59	0.87	27	68	4.94	9.83	NA	49	70	7.89	18.89	1.27
02-03-2024	22	44	5.42	15.17	0.37	28	55	5.37	24.31	0.75	44	78	6.42	29.32	0.69	36	43	4.66	10.52	NA	52	77	7.34	16.84	0.88
03-03-2024	41	38	5.69	13.63	0.32	32	70	7.08	19.81	0.49	32	62	5.24	15.28	0.46	25	48	5.31	10.01	NA	31	64	6.57	13.62	0.5
04-03-2024	34	28	5.51	12.36	0.12	35	62	5.96	24.9	0.76	48	78	7.63	29.72	0.5	35	62	5.23	10.1	NA	33	74	7.17	13.53	0.6
05-03-2024	37	67	5.74	15.31	0.55	29	57	5.82	25.4	0.85	41	88	8.47	36.03	0.62	34	77	4.66	9.64	NA	28	67	7.16	18.96	0.72
06-03-2024	37	92	5.69	12.56	0.52	51	92	5.81	36.01	0.82	40	84	7.56	40.67	0.53	33	73	5.43	14.07	NA	39	58	7.51	28	0.78
07-03-2024	56	73	5.79	14.33	0.63	46	95	5.7	35.08	0.94	51	79	7.64	40.94	0.59	34	69	5.33	11.86	NA	37	63	7.99	16.58	0.91
08-03-2024	49	80	5.64	13.76	0.62	47	93	5.7	43.56	0.89	38	91	7.86	42.76	0.62	35	73	4.91	9.65	NA	42	89	8.12	13.77	0.81
09-03-2024	44	82	5.75	13.33	0.62	47	74	6.02	45.25	0.93	55	91	7.79	51.01	0.68	44	79	4.69	10.06	NA	48	90	8.24	29.17	0.96
10-03-2024	40	94	5.84	14.98	0.71	40	71	5.62	45.78	1.09	46	79	9.2	45.27	0.67	31	61	4.42	9.84	NA	41	70	8.34	18.01	0.86
11-03-2024	35	80	5.72	12.7	0.66	40	79	2.71	42.02	1.07	47	80	8.36	46.58	0.65	45	75	7.07	9.88	NA	37	71	8.1	16.04	0.87
12-03-2024	44	91	5.81	14.9	0.7	46	97	7.44	52.96	1.13	49	90	8.1	42.44	0.65	49	91	7.22	9.8	NA	31	73	7.53	14.45	0.87
13-03-2024	48	92	5.61	12.67	0.59	39	52	6.21	41.09	0.94	31	47	6.92	31.86	0.58	39	67	6.15	9.71	NA	27	41	7.01	20.43	0.74
14-03-2024	38	66	5.68	10.73	0.5	26	43	6.06	34.42	0.72	25	40	6.19	27.44	0.52	30	75	7.61	9.61	NA	24	65	8.03	15.20	0.62
15-03-2024	34	52	5.59	13.83	0.5	23	57	5.5	34.66	0.73	25	45	6.85	31.97	0.57	38	64	7.53	9.93	NA	33	71	7.74	10.93	0.72
16-03-2024	49	58	5.6	10.53	0.5	38	62	6	30.26	0.69	21	43	6.58	28.43	0.5	39	77	7.9	10.05	NA	19	40	7.35	10.45	0.68
17-03-2024	35	53	5.68	9.84	0.54	29	63	5.63	29.21	0.85	23	41	7.66	29.95	0.73	27	56	6.24	10.6	NA	28	47	7.58	10.44	0.74
18-03-2024	31	48	5.72	8.05	0.48	22	52	7.02	29.71	0.72	21	36	6.55	21.67	0.64	34	63	5.88	9.36	NA	37	65	7.3	13.76	0.67
19-03-2024	42	78	5.73	9.16	0.57	20	67	6	34.27	0.83	18	43	5.08	17.94	0.48	41	72	5.64	9.5	NA	24	55	7.1	14.25	0.64
20-03-2024	34	74	5.76	10.77	0.6	42	71	5.97	35.48	0.84	48	83	5.43	41.04	0.66	35	63	5.95	10.72	NA	29	55	8.04	18.62	0.89
21-03-2024	55	65	5.78	10.48	1.16	31	70	6.07	33.5	1.28	51	93	5.94	57.09	1.09	32	61	5.32	10.21	NA	52	98	7.94	15.76	1.07
22-03-2024	57	89	6.11	13.36	1.75	54	85	5.95	24.76	1.25	33	62	5.33	31.19	0.84	23	58	5.87	9.55	NA	41	74	7.35	11.47	1.03
23-03-2024	22	49	5.63	10.22	0.86	31	76	6.02	27.75	1.1	31	68	5.23	24.48	0.74	48	71	5.7	9.94	NA	27	68	7.56	16.8	0.71
24-03-2024	16	52	5.69	10.44	0.71	22	52	6.11	22.74	0.72	25	65	5.14	27.57	0.5	29	59	5.38	10.43	NA	29	74	7.29	16.54	0.65
25-03-2024	17	48	5.48	10.64	0.87	26	65	6.13	27.99	1.05	27	78	5.39	21.25	0.69	21	55	4.53	9.33	NA	31	68	7.78	13.82	0.87
26-03-2024	13	44	5.62	8.63	0.63	34	63	6.13	19.19	0.71	32	73	5.47	14.6	0.48	27	56	5	10.56	NA	26	61	6.78	12.49	0.57
27-03-2024	14	51	5.59	8.93	0.61	39	68	6.04	27.56	0.67	34	70	5.04	21.68	0.57	25	47	4.83	11.66	NA	31	55	7.45	15.41	0.62
28-03-2024	10	43	5.55	8.59	0.6	35	55	6.07	18.28	0.64	41	75	5.47	20.8	0.57	28	56	7.81	11.54	NA	33	67	7.40	15.33	0.54
29-03-2024	10	52	5.61	8.65	0.68	38	78	6.03	20.82	0.69	31	68	5.92	19.66	0.53	27	56	7.72	10.39	NA	46	94	7.62	14.8	0.56
30-03-2024	12	65	6.06	7.75	0.64	48	86	5.99	20.28	0.72	41	71	5.56	21.26	0.52	31	55	7.3	11.03	NA	33	75	6.45	14.24	0.63
31-03-2024	14	54	5.59	8.67	0.79	51	90	3.84	30.1	0.87	46	84	5.01	25.85	0.5	33	73	7.67	10.51	NA	37	85	5.38	18.83	0.61

Standards

PM2.5 µg/m3	60
PM10 µg/m3	100
(SO2), µg/m3	80
(NOX), µg/m3	80
CO (ppm)	7



Prepared By
Dr. P. P. Nimbharkar
Manager (Environment)



Checked By
Dr. Anand Rai
Vice President (HRO-Environment)

Annexure 6

Mail Copy of EC Submission to MoEFCC



P Benjamine <ponniah.benjamine@jsw.in>

Six Monthly Environment Clearance Compliance report and Environment Monitoring report of M/s JSW Steel Ltd., Dolvi, Taluka - Pen, Raigad District, Maharashtra

1 message

Anand Kumar Rai <anand.raai@jsw.in>

Fri, Dec 1, 2023 at 1:33 PM

To: ecompliance-mh@gov.in

Cc: RO RAIGAD <rorraigad@mpcb.gov.in>, SRO RAIGAD2 <sroraigad2@mpcb.gov.in>, westzonecpb@yahoo.com

Bcc: ponniah.benjamine@jsw.in

- Ref:**
- i) Environmental Clearance for 3 MTPA vide letter No J-11011/4/96-IA-II dated 31-12-1996.
 - ii) Environmental Clearance for expansion of steel plant from 3 to 5 MTPA vide letter No J-11011/166/2011-IA-II(I) dated 21-11-2012.
 - iii) Environmental Clearance for expansion of steel plant from 5 to 10 MTPA vide letter No J-11011/176/2013-IA-II(I) dated 25-08-2015.
 - iv) Environmental Clearance for changes in configuration for proposed expansion of integrated steel plant from 5 to 10 MTPA vide letter No J-11011/76/2013-IA-II(I) dated 16/06/2020
 - v) Environmental Clearance for 3.5 (1.0+2.5) MTPA Coke Oven and By-product plant – Transfer of Environmental Clearance accorded for 3.5 MTPA Coke oven plant and By-product plant located at Geetapuram, Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 22/11/2021.

Dear Sir,

With reference to above, please find enclosed herewith Six monthly Environment Clearance compliance report of EC conditions for JSW Steel Ltd., Dolvi Works, Taluka - Pen, Maharashtra as per the following:

- i) Compliance of Environment Clearance for 3.0 MTPA steel plant (April 2023 to September 2023) – **Annexure I**
- ii) Compliance of Environment Clearance for expansion from 3 to 5 MTPA integrated steel plant (April 2023 to September 2023) - **Annexure II**
- iii) Compliance of Environment Clearance for expansion from 5 to 10 MTPA integrated steel plant of JSW Steel Ltd., Dolvi Works (April 2023 to September 2023) – **Annexure III**
- iv) Compliance of Environment Clearance for changes in configuration for proposed expansion of integrated steel plant from 5 to 10 MTPA vide letter No J-11011/76/2013-IA-II(I) dated 16/06/2020 – (April 2023 to September 2023) **Annexure IV**
- v) Compliance of Environmental Clearance for 3.5 (1.0+2.5) MTPA Coke Oven and By-product plant – Transfer of Environmental Clearance accorded for 3.5 MTPA Coke oven plant and By-product plant located at Geetapuram, Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 22/11/2021 (April 2023 to September 2023)
- vi) Six Monthly Environment Monitoring report for plants under JSW Steel Ltd., Dolvi Works for the period April 2023 to September 2023
- vii) Environment Statement for 2022-23 for plants under JSW Steel Ltd (Sponge Iron Plant, Hot Strip Mill, Billet Caster and Bar Mill, Blast Furnace, Sinter Plant 1 & 2, 55 MW Captive Power Plant, Lime Calcination Plant 3 & 4, Coke Oven Plant 2 and Plants under expansion of ISP from 5 to 10 MTPA)

Submitted for kind information and record please.

We are uploading the information on Parivesh Portal for the above documents.

Thanks & Regards,

Dr Anand Rai
Vice President (Head - Environment)


14 attachments

 **Compliance Report EC -3.5 MTPA Coke Oven - DCPL to JSWSL November 2023- F.pdf**
1273K

 **Six Monthly Env Monitoring report JSWSL April 2023 to Sept 2023.pdf**
8828K

 **Six Monthly EC Compliance JSW Steel November 2023-F.pdf**
6573K

 **Env Statement Blast Furnace - 2022-23.pdf**
108K

 **Env Statement Sponge Iron PlantIP - 2022-23.pdf**
107K

 **Env Statement Billet Caster and Bar Mill - 2022-23.pdf**
106K

 **Env Statement Coke Oven Plant 2 Batt A and B - 2022-23.pdf**
107K

 **Env Statement Coke Oven Plant 2 Batt C and D - 2022-23.pdf**
106K

 **Env Statement expansion 5 to 10 MTPA Steel Plant 2022-23.pdf**
111K

 **Env Statement Lime Calcination Plant 3 - 2022-23.pdf**
106K

 **Env Statement Hot Strip Mill 1 - 2022-23.pdf**
108K

 **Env Statement 55 MW Captive Power Plant - 2022-23.pdf**
106K

 **Env Statement Lime Calcination Plant 4 - 2022-23.pdf**
106K

 **Env Statement Sinter Plant 1 and 2 - 2022-23.pdf**
107K

Annexure 7

Covered Shed Photos



ENVIRONMENTAL IMPROVEMENT PROJECTS

- 1. Covered shed for Raw Material Storage (Jetty Yard A & B) & Inside Plant**
- 2. Constructed Covered Storage for raw material**
- 3. Material Transfer from Jetty outside the plant to Raw Material Storage yard inside the plant through Covered Cross country conveyor**
- 4. Pollution Mitigation Measures in RMHS**
- 5. Dust Suppression System at Junction Houses of Raw Material Handling Section**
- 6. Air Emissions(Secondary Emissions) Control Measures**
- 7. Air Pollution Control Systems provided at Coke Oven plant II (3.0 MTPA)**
- 8. Construction of Concrete roads and Improvement in Transport and Road Sweeping equipment's to eliminate Fugitive emissions due to Vehicular Movement on Roads**
- 9. Reduction of Dust emissions due to Vehicular Movement on Roads**

Covered shed for Raw Material Storage (Jetty Yard A & B)

Details :

- Covered shed for Coal Storage (Capacity: 110,000 MT)
- Covered shed for Iron Ore and Flux (Capacity: 305,000 MT)

Investment :

- Rs 77.29 Crores for Yard sprinklers, De-dusting system and Dry fogging system

Environmental Benefits :

- No fugitive emission during handling of material/ operation of yard
- No water contamination during rains
- No spillage of material on roads



Covered shed (Inside Plant)

1



Covered Sheds
for Pellet Storage
Capacity: 1,20,000 MT

2



Covered Sheds
for Coal Storage
Capacity: 1,20,000 MT

3



Converting open storage to Covered
Sheds IBRM and Flux Storage
Civil Foundation under progress.

Constructed Covered Storage for Raw Material

Details of covered shed for storage of Raw Material:

- I. Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage
- II. Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux.
- III. Covered Sheds for Pellet Storage of Capacity-1,20,000 MT
- IV. Converting open storage to Covered Shed for Coal Storage Capacity-1,20,000 MT
- V. Converting open storage to Covered Sheds IBRM and Flux Storage under progress.

Environmental Benefits

- No fugitive emission during handling of material
- No water contamination during rains
- No spillage of material on roads
- Covered storage shed will prevent dust emission in the environment during operation of the yard.

Material Transfer from Jetty outside the plant to Raw Material Storage yard inside the plant through Covered Cross country conveyor



Material Transfer from Jetty (outside) to Raw Material Storage yard (inside the plant) through Covered Cross country conveyor.

S. No.	Facilities	UoM	10 MTPA
1	Belt conveyors	Nos.	361
2	Conveyor dist. C/C	KM	61.84
3	Junction houses	Nos.	175
4	Dust Extraction system	Nos.	78
5	Dry fog de-dusting system	Nos.	4
6	Yard sprinklers	Nos.	6

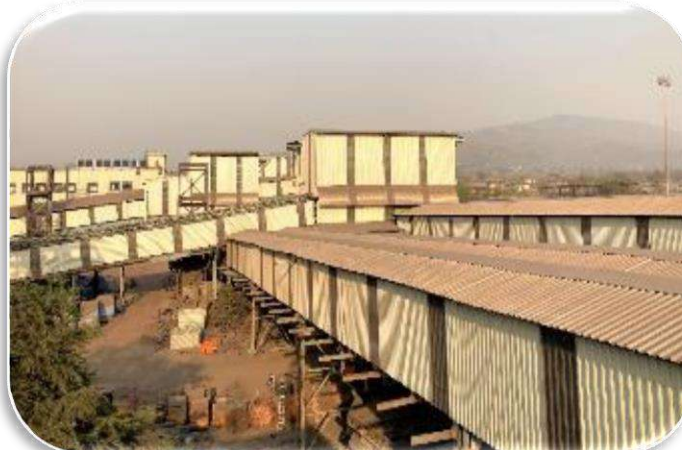
Environmental Benefits:

The transfer of raw materials (100 %) from Jetty to plant through belt and pipe conveyors, eliminates fugitive emissions and ultimately helps in improving the Ambient Air Quality.

Pollution Mitigation Measures in RMHS



Covered Conveyor Belt



Covered Conveyor Belt



Covered Conveyor Belt



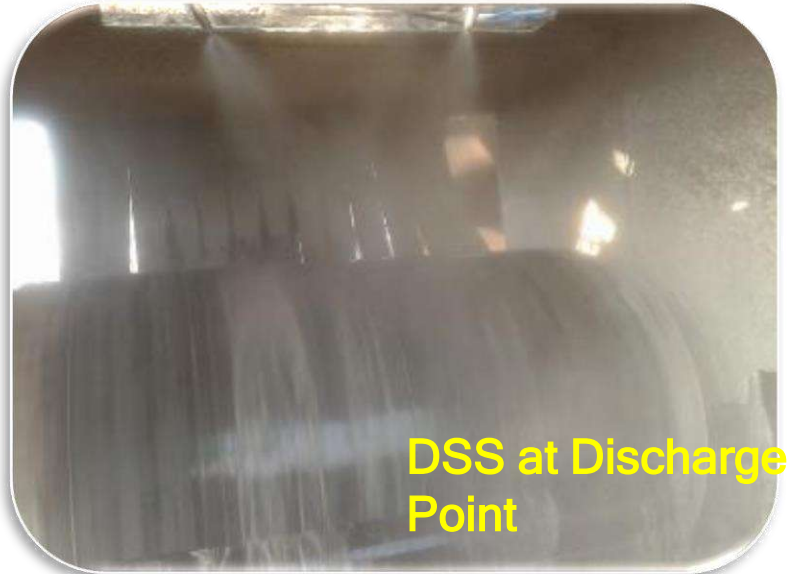
Covered Junction Houses



Covered Junction Houses

- Total Length of Conveyor: 61 km
- DE System: 78 nos.
- Dry Fogging system: 4 nos.

Dust Suppression System at Junction Houses of Raw Material Handling Area



Air Emissions(Secondary Emissions) Control Measures



**Shed for Secondary material storage
at Sinter Plant**



ESP at Discharge end at Pellet



**DE system at Various Junction houses of
RMHS**



**DE system (Wet Scrubber) for HSM
Silo at SIP.**



Installation of GCP 4 at SMS 1



**DE system for charging emission at Coke
Oven**

Construction of Concrete roads and Improvement in Transport and Road Sweeping equipment's to eliminate Fugitive emissions due to Vehicular Movement on Roads

S. No	Activity	Remarks
1	Construction of all internal roads by Concrete.	Approximate 20.53 Km of concrete road completed
2	Transfer of De-dusting system dusts and other secondary dusts generated from Pollution Control equipment by bulkers.	Bulkers are available.
3	Regular operation of Road Sweeping machines.	Presently 6 Nos of road sweeping machines are available on hiring basis.
4	Regular water sprinkler on road to suppress the dust emissions.	Presently 2 tankers are available on hiring basis.
5	Avoid Spillages of materials on road by monitoring at source of loading.	Overloading to be controlled at the source.

Total road concreting of approximately 22 Km has been completed out of the planned 23Km .

Reduction of Dust emissions due to Vehicular Movement on Roads



Total No of Water Sprinkler- 2 Nos.

Total no of Road Sweeping Machines - 6 Nos.



Annexure 8

Environment Policy

Environment Policy

JSW Steel recognizes nurturing the environment as its prime responsibility for long-term sustainability in and around its areas of operation.

We are committed to:

- Addressing the issue of climate change through efficient use of natural resources, minimization of wastes and developing new grades of Steel with low environmental impact.
- Continual evaluation of environmental impact of its operations and adoption of appropriate technologies and practices to mitigate adverse effects.
- Effective implementation of Environmental Management System for continual improvement.
- Deploying necessary resources to comply with applicable environmental laws, regulations and agreements.
- Enhancing awareness, skills and competencies amongst its employees, associates, suppliers and community to create an eco-friendly society.
- Environmental conservation initiatives and preservation of bio-diversity around the areas of our operation.

Date: 11th November 2022



Ashish Chandra

President (Dolvi, Salav & Anjar)

 **JSW Steel Limited, Dolvi Works**