ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

APRIL TO SEPT 2024

JSW STEEL LTD, DOLVI WORKS

Six Monthly Compliance, Status report

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

Environmental Clearance Letter No J-11011/76/2013-IA-II(I) dated 16/06/2020

ENVIRONMENTAL MANAGEMENT DEPARTMENT

JSW STEEL LTD, DOLVI WORKS, TALUKA PEN, RAIGAD-DISTRICT, MAHARASHTRA 402107

Annexure IV

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	2.0 MTPA plant commissioned and in operation 2.0 MTPA to be implemented.
2.	Pellet Plant	4.0 MTPA	9.0 MTPA	13.0 MTPA	Plants 4.0 MTPA and 9 MTPA are in operation.
3.	Coke Ovens including By-product plant	2.0 MTPA	2.5 MTPA	4.5 MTPA	3.0 MTPA Coke Oven Plant commissioned and in operation by JSW Steel Ltd. 1.0 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.e*. 5.3 MTPA) operational, balance capacity 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
5.	Blast Furnace including Pig casting	3.6 MTPA (by augmentation)	4.5 MTPA	8.1 MTPA	8.0 MTPA Commissioned and in operation
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

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
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
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 and in operation. (2200+2200+1000+1260 TPD)
21.	Hot Rolling Mill with shearing & slitting line	-	5.0 MTPA	5.0 MTPA	Commissioned and in operation

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
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.
24.	Captive Power Plant	300 MW	300 MW	600 MW (based on surplus gases of BF & Coke Oven)+RLNG	1x55 MW + 1x175 MW CPP Commissioned and in operation TRT: 1x12 MW+ 1x36 MW in operation CDQ: 1x70 MW in operation
25.	Township	-	150 acres	150 acres	Work in progress.
26	Solid Waste Incinerator	250 Kg/Hr	250 Kg/Hr	250 Kg/Hr	Commissioned and in operation

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."	**Green Belt within Plant**: Presently, 13% green belt is developed over 80.00 ha land within the plant premises with 2,17,457 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.

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		In addition to the Green belt development EK PED MAA KE NAAM campaign was undertaken by JSW Steel, wherein plantation was done at 4 no of schools. (Photographs of Green Belt Attached as **Annexure-1**) **Green Belt Outside Plant in 10 Km area**: 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. **Hence, Condition is complied**.
ii	The CER activities shall be implemented in accordance with this Ministry's OM vide F.No.22 -65/2017-IAIIIdated 1st May 2018 within the Project implementation period.	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. The project proponent has spent an amount of **Rs. 118.86 Crores on CER Activities**. 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**. **Hence, Condition is complied.**
iii	Treated domestic wastewater generated from township shall be reused and recycled.	When construction of Township will be done, Domestic Wastewater from township will be treated in STP and shall be reused in gardening.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		Hence, Condition shall be complied.
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.	Zero Liquid Discharge (ZLD) will be achieved at the end completion of all the facilities by Dec 2025. 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. **Hence, Condition is complied**.
B) General Conditions		
I.	**Statutory Compliance:**	
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.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		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 31st March 2012 (Integrated iron & Steel) ; G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time ; S.O 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs 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.**
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 120º 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 PM2.5, PM10, SO2, NOx & CO. Screenshot of Connectivity of CAAQMS to MPCB is enclosed as **Annexure-7**. **Hence, condition is complied.**

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
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 May 2024 is enclosed as **Annexure-6**. **Hence, condition is complied**
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.	• 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

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		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/Nm^3 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 (06 nos) and water sprinkler tankers (02 nos). • Transferring dust of De-dusting system and other secondary dusts generated from Pollution Control equipment by bulkers. • 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. **Hence, condition is complied.**
Viii	The Project proponent shall provide leakage detection and	In De-dusting system leakage detection system provided.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	mechanised bag cleaning facilities for better maintenance of bags.	Bag filters with mechanized bag cleaning system like pulse jet type is provided. **Hence, condition is complied.**
ix	Secondary emission control system shall be provide at SMS Converters.	In SMS Converters, Dust extraction system with bag filters and ESPs provided to control the secondary emissions. **Hence, condition is complied.**
x	Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines. • 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 < 2.35 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 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

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		consumption. • 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 CO_2 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 CO_2 emissions by approx. 10.9 Lac.t CO_2eq • 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 1 is 155 Kg/THM and Blast Furnace 2 is 197 Kg/THM (average for the year 2023-24). • 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. **Hence, condition is complied**

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
xi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors , roofs, regularly.	• Vacuum based Road sweeping machines (06 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. **Hence, condition is complied.**
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.	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). **Hence, condition is complied**.
xiii	The projects proponent use leak proof trucks /dumpers carrying coal and other raw materials and cover them with tarpaulin.	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. Raw Material Handling areas, yard sprinklers, Dry fogging system, dust extraction system provided in the junction houses and transfer points. <u>Covered sheds for Raw Material storage purpose</u>: 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.

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		4. New covered shed for storing Iron Ore Bearing Material and Flux of Capacity 4,27,000 MT 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.** Transportation within plants for materials like lime etc. is through closed bulker. Minimal transportation is through open truck. **Hence, condition is complied**
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).	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. **Hence, condition is complied**
xv	Land – based APC systems to be installed to control coke pushing emissions	Separate ground De-dusting systems provided to control the charging and pushing emissions from Coke oven plants. **Hence, condition is complied.**
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.	In Coke Oven plants on line systems installed to monitoring parameters for CO, HC and Oxygen. Also the cross leakages in the combustion chamber measured by separate sensors. **Hence, condition is complied.**
xvii	Vapour absorption system shall be provided in place of	We have recovery type coke ovens, vapour absorption system is provided.

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	vapour compression system for cooling of coke oven gas in 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_2S 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. • 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 of

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		Capacity 4,27,000 MT • Investment on Yard sprinklers, De-dusting system and Dry fogging system to the tune of Rs 77.29 Crores The project proponent has provided adequate de-dusting systems with ESPs, Bag Filters in Steel melting shop, Blast Furnace, Lime Calcination Plants, Pellet Plant. Photographs of cover sheds is enclosed as **Annexure-7**. **Hence, condition is complied.**
xxi	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, Motor houses, oil Cellars.	Adequate ventilation system has been provided for all motor houses, Oil cellars, Furnace areas by reputed vendors. **Hence, condition is complied.**
xxi	The project proponent shall install dry Gas Cleaning Plant with bag filter for blast Furnace and SMS converter.	Dry Gas Cleaning Plant with bag filter installed at Blast Furnace and SMS Converter. In Steel Melting Shop Basic Oxygen Furnace Converter area provided with pollution control systems like ESP and Bag Filters. **Hence, condition is complied.**
III Water quality monitoring and preservation		

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
i	The Project Proponent Shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R.277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power 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.	On line effluent monitoring systems is provided as per CPCB guidelines. 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 **Hence, condition is complied.**
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.	There is no ground water withdrawal hence piezometer for monitoring ground water is not provided. **Hence, condition is not applicable.**
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.	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**. **Hence, condition is complied.**
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 31st March 2012 (Integrated iron & Steel); 3305 (E) dated 7th December 2015 (Thermal Power Plant) as amended from time to time as amended from time	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 **Hence, condition is complied**.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	to time.	
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

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		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.**
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.	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. 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. Coke dry quenching system installed at Coke oven plant. **Hence, condition is complied.**
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	Noise level monitoring is carried out in the plant locations and submitted to MoEFCC on six monthly basis. Copy of noise monitoring report is enclosed as **Annexure-5**. **Hence, condition is complied.**
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	Copy of noise monitoring report is enclosed as **Annexure-5**. **Hence, condition is complied.**
V. Energy Conservation measures		
i	The project proponent shall provide TRTs to recover energy from top gases to blast furnaces.	In Blast Furnace Top Gas Recovery Turbine is provided to recover the energy from top gases.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		The top gas from blast furnace is having high pressure (5 bars) which is recovered through Top Recovery Turbine (TRT). 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 thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increased approx. of 22 MW. **Hence, condition is complied.**
ii	Coke Dry Quenching (CDQ) Shall be provided for coke quenching for the both recovery and non – recovery type coke ovens ;	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. **Hence, condition is complied.**

iii	Waste heat shall be recovered from sinter Plant coolers and Sinter Plants coolers and sinter Machines.	At Sinter plants an Coke Oven plants, waste gas recovery systems with boilers are already installed.
		• Energy efficient technologies provided in the Plant like waste heat recovery system,
		  • 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

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		• CDQ Boiler -2 (94 TPH) Waste Heat Recovery • CDQ Boiler -3 (94 TPH) Waste Heat Recovery **Hence, condition is complied.**
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 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 300ºC .	Existing Sinter plants I & II waste gas recovery systems with boilers are already installed. Coke oven plants heat recovery boilers provided. • 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

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		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 furnaces and if feasible shall be installed .	At Blast Furnace, Sinter plants and Coke oven plants, Waste Heat Recovery boilers are in place. **Hence, condition is complied.**
viii	Restrict Gas Flaring to < 1%	**Following initiatives have been taken to restrict gas flaring <1% :** • The Gas generated form 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 Hence, condition is complied.
ix	Provide solar Power generation on roof tops of buildings for solar light system for the all common area, stress lights. Parking around projects area and maintain the same regularly;	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. However, feasibility of installation of solar Power generation is being

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		worked out and shall be implemented by end of completion of project. **Hence, condition is being complied.**
x	Proved LED lights in their officers and residential areas.	LED lights are provided in the plant offices and plant areas. **Hence, condition is complied.**
xi	Ensure installation of regenerative type burners on all reheating furnace.	Regenerative type burners are provided on reheating furnaces. **Hence, condition is complied.**
VI. Waste management		
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

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		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. **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.	R&D work with various Govt. agencies are carrying out the utilization of Steel slag for various purposes. EAF slag is being used for road construction (Internal roads and National Highways) and land reclamation purpose. 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. Also steel slag can be used for marine applications for making tetrapod and marine structures.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		BOF Slag will be processed by steam quenching technology and shall be used for construction purpose. Proposed project for converting the slag into sand (by processing in Slag to Sand plant). **Hence, condition is complied.**
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.	This condition is not applicable to this plant. 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.
ix	Oil Collection pits shall be provided in oil cellars to collect and reuse/ recycle Spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Oil cellar areas, oil collection pits have been provided to collect the spilled oil. 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	Canteen waste is composed and converted into Bio gas.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	further use.	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.	**Green Belt within Plant**: Presently, 13% green belt is developed over 80.0 Ha land within the plant premises with 2,17,457 nos of trees. Balance 18.42 Ha (3%) green belt area is to being developed with 46,200 nos of trees. **Green Belt in 10 Km Buffer**: Green belt outside the plant premises has been developed over 203.00 Ha i.e. 33%. 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. **Hence, condition is complied.**
ii	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.	GHG emissions inventory is being prepared for regular monitoring of CO2 emissions. Plant wise CO2 Emissions contributors are regularly monitored and action plan prepared. **CO2 emission n reduction plan is as below**- **Carbon Footprint Mitigation Plan**

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS

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
	COG Injection in BF	15
FY'27	Best Available Technology in BF#3 (TRT, Stove WHR, GH, Dry GCP)	20
	Increase in Hot Blast Temperature of BF	30
	Gas based (BFG + COG) CPP 137 MW	60
	SMS#3 (Waste Heat Recovery Boiler, LD Gas Recovery)	40
FY28	Renewable Energy 330 MW (RTC 106)	40
FY28	Use of scrap	120

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		Hence, condition is complied
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 .	Plant wise Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan are already implemented. Hence, condition is complied.
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.	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. Hence, condition is complied
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.	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. After completion of the entire project activities, the same shall be removed. Hence, condition is complied
iv	Occupational heath 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 approve by the Board of Directors. The	Environment Policy is in place and being complied in adherence to Environmental Clearance, Environmental Laws and regulations.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	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.	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 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.	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. 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. The revenue expenditure on Environmental protection for the year 2023-24 was Rs 517 Crores.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		Hence, condition is complied.
iv	Self environment audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Internal audit is conducted by trained internal audit team. External audit also conducted by third party once in a year. **Hence, condition is complied.**
v	All the recommendation made the charter on corporate responsibility for Environment protection (CREP)_ for the Iron and steel plants shall implemented.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines. • 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. • 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 2023 - 24 is < 2.35 m3/t of

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
		crude steel which is well below the targets for flat products and as well as for long products. Online Stack Monitoring System have been installed on all stacks. The real time data is interlinked with MPCB and CPCB server. **Hence, condition is complied.**
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.	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. **Hence, condition is complied.**
	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.	A copy of Environment Clearance letter is already submitted to concerned Panchayat, Zillah Parishad/Municipal Corporation, Urban Local Body and the local NGO, **Hence, condition is complied.**
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.	Noted and shall be complied on regular basis. Environmental Monitoring Report and EC Compliance status are regularly updated on the company website. **Hence, condition is complied.**

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
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 30th 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.**
ix	The Project proponent shall abide all the commitments and recommendations made in the EIA/ EMP report	Separate budget is maintained for implementing the projects/ issues as discussed during Public Hearing and as per the discussions with the Expert

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS
	,commitment made during public Hearing and also that during their presentation to the Expert Appraisal Committee .	Appraisal Committee. 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. 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) 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. **Hence, condition is complied.**
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).	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). **Hence, condition is complied.**
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.	All the data is submitted with authenticity and undertaking for correctness. **Hence, condition is complied.**
xii	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	All the required conditions are implemented. **Hence, condition is complied.**
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 • 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 Development Near Main Gate

Plantation Near Goa Gate

Plantation Near Goa Gate

Green belt inside the plant

Green belt Near Main Gate

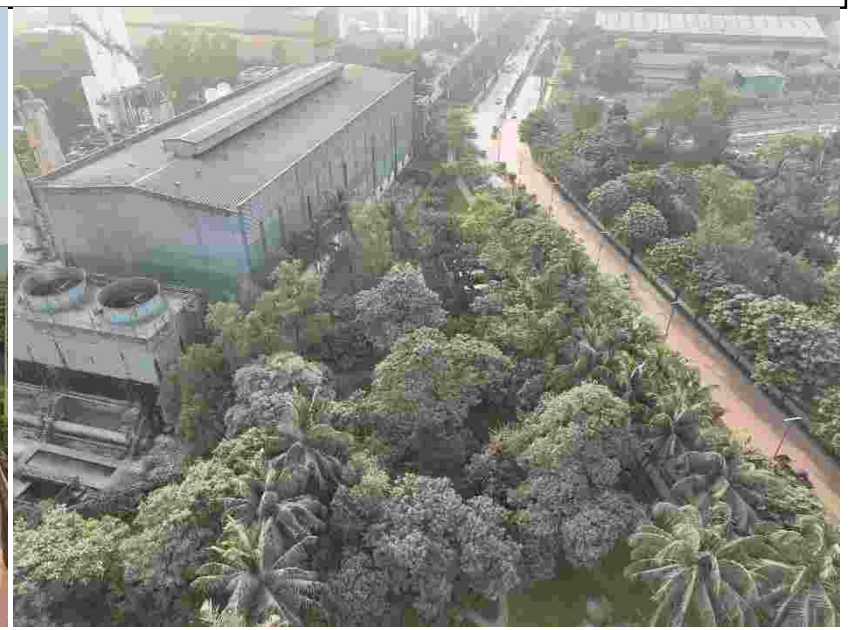
Green belt Development

Green belt at Admin building and Gas Storage

Green belt at Internal Roads

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

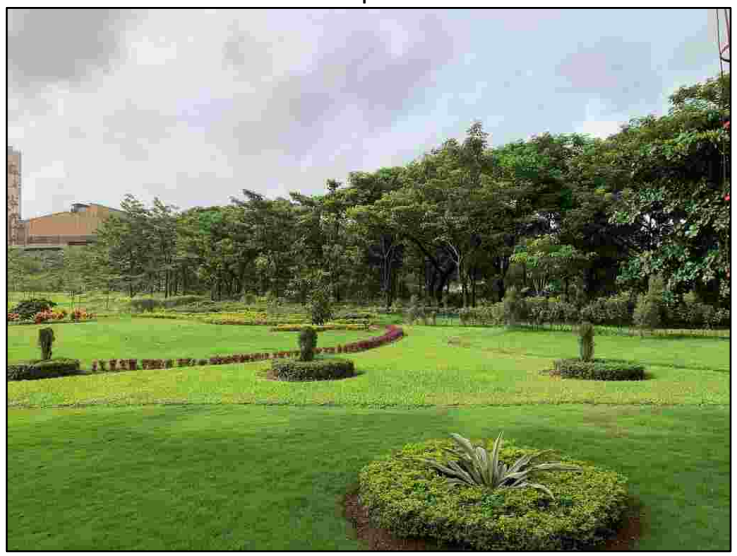
Green belt at Gas receiving Station

Green belt at open area within plant

Green belt near LD Plant and internal road

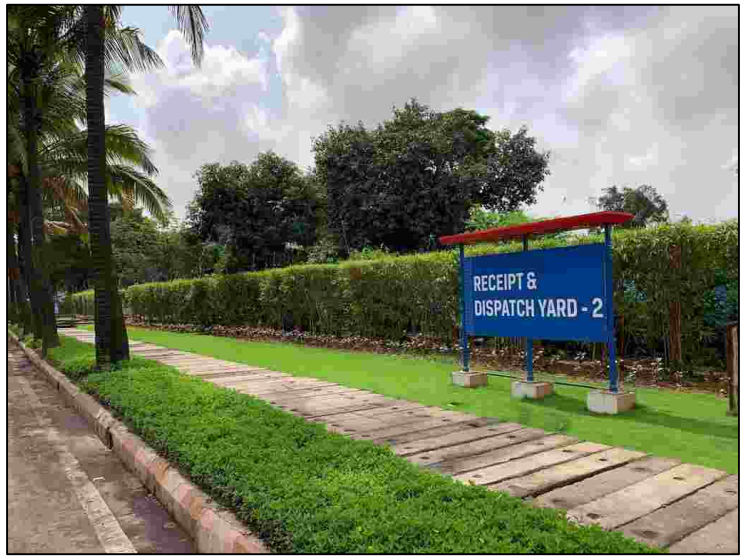
Green belt at HSM Plant

Green belt near power Plant

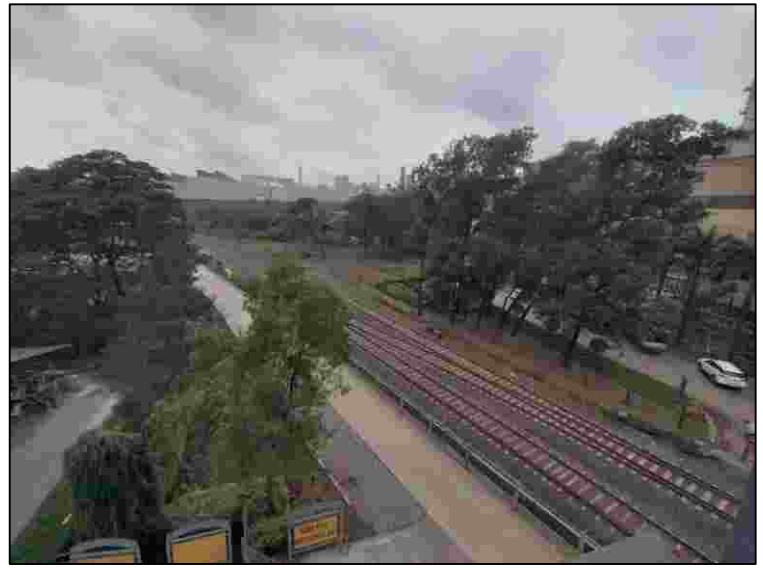


Green belt in open area near Main Gate

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 Agreement permissions

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 4

Screenshot of Data Connectivity of CEMS

Annexure 5 B

Six Monthly Environment Monitoring Report from April to September 2024 for Plants under Phase 2

JSW Steel Limited

Dolvi Works:
Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107. Maharashtra, India.
CIN : L27102MH1994PLC152925
Phone : +91 2143 663000/3100/3200
Fax : +91 2143 277533/42
Website : www.jsw.in

BY COURIER

November 28, 2024

JSWSL/ENV/MOEF&CC/2024

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 April 2024 to September 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 April 2024 to September 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,

Satish Kumar Choudhary
General Manager(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

Regd. Office: JSW Centre,
Bandra Kurla Complex,
Bandra (East), Mumbai - 400 051.
Phone : +91 22 4286 1000
Fax : +91 22 4286 3000

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.			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	Chromium	mg/l	0.0015	0.0016	0.0014	0.0016	0.0015	0.0016
2	Zinc	mg/l	0.092	0.093	0.091	0.092	0.090	0.092
3	Phosphate	mg/l	0.93	0.92	0.93	0.91	0.92	0.91
4	Free Chlorine	mg/l	Nil	Nil	Nil	Nil	Nil	Nil

Prepared By
P. P. Nandusekar
Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager(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					
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	Temperature	°C	27.2	27.2	27.1	27	27.3	27.2
2	pH	-	7.3	7.2	7.3	7.2	7.3	7.2
3	D.O.	mg/l	5.4	5.4	5.3	5.4	5.5	5.5
4	T.S.S.	mg/l	21.2	19.3	20.0	18.4	19.2	18.6
5	T.D.S.	mg/l	356.4	354.8	321.0	329.0	314	339
6	C.O.D.	mg/l	23.4	26.5	21.3	27.5	23.9	25.5
7	B.O.D.	mg/l	6.8	7.0	6.3	7.2	6.9	7.0
8	Oil & Grease	mg/l	3.5	3.4	3.2	3.4	3.3	3.5
9	Iron	mg/l	0.40	0.30	0.35	0.4	0.40	0.40
10	Chlorides	mg/l	48.0	50.00	34.98	50.0	57.50	52.00
11	Sulphates	mg/l	2.3	2.3	2.25	3.3	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	^{0}C	27.2	27.2	27.2	27.2	27.2	27.2

Prepared By
P. P. Nandusekar
Manager (Environment)

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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					
			Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	Temperature	°C	56.4	56.2	56.2	56.1	56.2	56.1
2	pH	-	8.3	8.2	8.3	8.1	8.2	8.1
3	D.O.	mg/l	2.1	2.2	2.0	2.2	2.2	2.2
4	T.S.S.	mg/l	621.6	616.1	632.0	623.2	612.8	615.8
5	T.D.S.	mg/l	449.2	445.0	412.0	422.2	395.3	470.4
6	C.O.D.	mg/l	46.7	50.4	53.3	48.8	50.4	46.7
7	B.O.D.	mg/l	7.7	7.9	7.8	7.6	7.6	7.9
8	Oil & Grease	mg/l	4.5	4.3	4.0	4.6	4.8	4.7
9	Iron	mg/l	1.4	1.3	1.31	1.34	1.353	1.31
10	Chlorides	mg/l	157.0	142.5	145.00	110	140	140.00
11	Sulphates	mg/l	3.3	3.3	3.30	3.3	3.3	3.20

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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	NOx	CO
I	**Hot Strip Mill Plant**					**Plant Capacity: 3.0 MTPA**						
1	GCP - I Stack	SMS Furnace	70.5	5.5	Bag Filters	10/04/24 11:15 Hrs	8477.0	16.46	8	13.0	16.0	19.0
						01/05/24 10:00 Hrs	9674.0	16.38	8	15.0	23.6	16.0
						16/06/24 13:30 Hrs	9594.0	16.46	21	18.0	4.8	15.0
						02/07/24 15:15 Hrs	5701.0	16.65	6	16.0	21.4	17.0
						02/08/24 11:00 Hrs	9269.0	16.70	6	14.0	17.0	29
						01/09/24 10:30 Hrs	9914.0	16.92	17	15.0	20.5	25.55
2	GCP - II Stack	SMS Furnace	70.5	5.5	Bag Filters	12/04/24 11:20 Hrs	14531.0	15.31	6	10.0	14.0	15.9
						01/05/24 14:15 Hrs	9674.0	18.16	5	17.0	29.9	19.0
						16/06/24 12:35 Hrs	9594.0	16.93	12	10.0	3.5	21.4
						02/07/24 15:15 Hrs	5701.0	18.83	11	16.0	20.0	25.0
						02/08/24 13:30 Hrs	9269.0	18.09	10	15.0	19.0	23.0
						01/09/24 12:30 Hrs	9914.0	17	11	18.0	15.7	21
3	GCP - III Stack	SMS Furnace	66.5	3.3	Bag Filters	14/04/24 16:30 Hrs	14286.0	8.74	6	NA	NA	NA
						01/05/24 16:30 Hrs	9674.0	8.81	6	NA	NA	NA
						16/06/24 09:45 Hrs	9594.0	9.15	6	NA	NA	NA
						03/07/24 16:30 Hrs	7783.0	9	6	NA	NA	NA
						02/08/24 15:25 Hrs	9269.0	10	7	NA	NA	NA
						09/09/24 10:25 Hrs	9275.0	9	19	NA	NA	NA
4	Tunnel Furnace - I - A Stack	Tunnel Furnace	50	1.5	Blower	10/04/24 14:25 Hrs	8477	13	15	NA	NA	NA
						07/05/24 16:00 Hrs	8735	10	16	NA	NA	NA
						09/06/24 10:15 Hrs	8723	10	15	NA	NA	NA
						08/07/24 16:00 Hrs	9273.0	11.50	13	NA	NA	NA
						02/08/24 16:35 Hrs	9269.0	12.00	13	NA	NA	NA
						09/09/24 12:35 Hrs	9275.0	10.20	15	NA	NA	NA

*NA-Not Applicable

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JSW STEEL LIMITED

Integrated Steel Mill Complex

Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

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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	NOx	CO
5	Tunnel Furnace - I - B Stack	Tunnel Furnace	50	1.5	Blower	20/04/24 10:00 Hrs	14193	8	10	12.0	14.0	11
						02/05/24 10:15 Hrs	10209	8	11	14.0	16.0	12
						08/06/24 14:00 Hrs	7337	8	9	25.0	14.0	22
						04/07/24 12:15 Hrs	9412.0	6.50	7	19.0	16.00	21.0
						03/08/24 15:45 Hrs	10247.0	7.80	7	17.0	16.00	19
						02/09/24 09:50 Hrs	8707.0	7.80	19	18.0	17.00	15
6	Tunnel Furnace - II - A Stack	Tunnel Furnace	50	1.5	Blower	20/04/24 14:00 Hrs	14193.0	7.80	2	13.0	19.0	13.0
						02/05/24 14:15 Hrs	10209.0	7.90	1	16.0	15.0	2.0
						16/06/24 14:35 Hrs	9594.0	7.90	2	18.0	27.0	24.0
						04/07/24 14:30 Hrs	9412.0	7	2	17.0	22.0	4.80
						12/08/24 17:00 Hrs	10490.0	8	8	10.1	14.3	5.72
						01/09/24 14:30 Hrs	9914.0	8	16	19.0	15.0	24.00
7	Tunnel Furnace - II - B Stack	Tunnel Furnace	50	1.5	Blower	20/04/24 15:00 Hrs	14193	7	4	12.0	16.0	14
						02/05/24 15:30 Hrs	10209	7	4	17.5	14.7	4
						16/06/24 10:45 Hrs	9594	6	3	15.0	26.0	14
						04/07/24 16:45 Hrs	9412.0	7	4	16.0	18.0	15.00
						12/08/24 15:00 Hrs	10490.0	7	4	14.0	9.3	23.00
						02/09/24 16:30 Hrs	8707.0	7	14	24.0	22.0	12.00
8	18 TPH Boiler Stack	Boiler	65	1.8	Blower	Shut Down 31/04/2022						
9	De-Dusting System Stack	Lime & Coke Handling System	30	1.9	Bag Filters	Stack dismentled In April - 15/4/2023						
								CPCB Norms	<100	NA	50.00	NA

*NA-Not Applicable

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Integrated Steel Mill Complex

Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

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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	NOx	CO
II	**Lime Calcination Plant**						**Plant Capacity: 0.44 MTPA**					
1	Lime Stone De-dusting system stack for Kiln I & II	Lime Stone Hopper	41.5	0.825	Bag Filters	19/04/24 10:20 Hrs	613	4	12	NA	NA	NA
						06/05/24 12:05 Hrs	590	5	10	NA	NA	NA
						12/06/24 16:40 Hrs	625	5	12	NA	NA	NA
						19/07/24 10:10 Hrs	614	4	10	NA	NA	NA
						04/08/24 14:23 Hrs	594	4	10	NA	NA	NA
						15/09/24 10:33 Hrs	640	4	14	NA	NA	NA
2	Kiln - I Stack	Kiln - I	48.7	0.914	Bag Filters	04/04/24 14:15 Hrs	284	15	21	15.0	11.0	18
						06/05/24 10:25 Hrs	287	13	22	12.0	18.0	12
						12/06/24 10:00 Hrs	300	14	12	13.0	18.0	21
						08/07/24 10:00 Hrs	280	15	16	14.0	18.0	16.00
						10/08/24 10:00 Hrs	274	16	18	13.0	14.0	16.00
						08/09/24 10:00 Hrs	290	14	26	16.0	14.0	19.00
3	Kiln - II Stack	Kiln - II	48.7	0.914	Bag Filters	04/04/24 10:45 Hrs	350	15	24	12.0	15.00	17
						06/05/24 14:30 Hrs	313	15	20	14.0	13.00	16
						12/06/24 12:22 Hrs	325	16	6	14.0	19.00	15
						08/07/24 11:45 Hrs	340.0	17	7	15.0	17.00	18.00
						10/08/24 12:30 Hrs	325.0	18	8	14.0	16.00	13.00
						08/09/24 12:30 Hrs	340.0	16	18	12.0	15.00	16.00
4	Lime De-dusting system Stack for Kiln I & II	Lime Storage Hopper	25.5	0.825	Bag Filters	19/04/24 12:00 Hrs	613	5	14	NA	NA	NA
						06/05/24 16:20 Hrs	590	6	15	NA	NA	NA
						12/06/24 15:40 Hrs	625	6	13	NA	NA	NA
						08/07/24 14:15 Hrs	620.0	5	5	NA	NA	NA
						15/08/24 10:30 Hrs	614.0	7	7	NA	NA	NA
						13/09/24 10:05 Hrs	640.0	4	17	NA	NA	NA

*NA-Not Applicable

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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	NOx	CO
5	Lime Stone De-dusting system stack for Kiln III	Lime Stone Hopper	35	1.4	Bag Filters	19/04/24 14:10 Hrs	585	4	13	NA	NA	NA
						15/05/24 11:10 Hrs	338	4	15	NA	NA	NA
						13/06/24 15:25 Hrs	580	5	16	NA	NA	NA
						19/07/24 12:00 Hrs	557	4	9	NA	NA	NA
						04/08/24 15:33 Hrs	580	6	10	NA	NA	NA
						15/09/24 12:22 Hrs	564	5	15	NA	NA	NA
6	Kiln - III Stack	Kiln - III	60	1.3	Bag Filters	07/04/24 12:15 Hrs	585	13	22	16.0	17.00	15
						04/05/24 10:00 Hrs	390	11	11	12.0	14.00	17
						13/06/24 10:40 Hrs	580	15	19	14.0	16.00	21
						09/07/24 10:00 Hrs	583	9	21	14.0	20.86	16.25
						10/08/24 14:00 Hrs	556	7	27	18.0	16.01	15
						08/09/24 14:45 Hrs	532	8	19	17.0	13.49	14
7	Quick Lime & Lime De-dusting system Stack for Kiln III	Lime Storage Hopper	31	0.960	Bag Filters	19/04/24 16:23 Hrs	585	6	16	NA	NA	NA
						15/05/24 14:33 Hrs	338	6	15	NA	NA	NA
						Plant shut down						
						24/07/24 10:25 Hrs	580	6.5	14	NA	NA	NA
						15/08/24 14:25 Hrs	589	5.6	11	NA	NA	NA
						13/09/24 15:22 Hrs	620	4	15	NA	NA	NA
8	Kiln - IV Stack	Kiln - IV	58	1.3	Bag Filters	04/04/24 16:45 Hrs	590	13	8	14.00	16.00	22
						15/05/24 09:00 Hrs	375	14	24	16.00	14.00	21
						Plant shut down						
						19/07/24 15:20 Hrs	588	5	13	NA	NA	NA
						04/08/24 16:50 Hrs	610	5	13	NA	NA	NA
						15/09/24 14:35 Hrs	600	5	11	NA	NA	NA

*NA-Not Applicable

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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	NOx	CO
9	Lime Stone De-dusting system stack for Kiln IV	Lime Stone Dedusting System	35	1.4	Bag Filters	04/04/24 16:45 Hrs	590	13	8	14.00	16.00	22
						15/05/24 09:00 Hrs	375	14	24	16.00	14.00	21
						Plant shut down						
						24/07/24 12:16 Hrs	580	14.5	22	14.0	24.0	22.0
						10/08/24 17:45 Hrs	589	17.4	8	15.0	19.0	27.0
						08/09/24 16:00 Hrs	620	16	12	12.0	16.0	18
10	Lime De-dusting system Stack for Kiln IV	Lime Dedusting System	31	0.960	Bag Filters	03/04/24 12:15 Hrs	590	6.0	17	NA	NA	NA
						16/05/24 09:28 Hrs	590	5.4	15	NA	NA	NA
						13/06/24 12:15 Hrs	580	4.8	13	NA	NA	NA
						09/07/24 12:35 Hrs	583	6	16	NA	NA	NA
						15/08/24 12:10 Hrs	532	7	14	NA	NA	NA
						13/09/24 12:25 Hrs	586	5	16	NA	NA	NA
							CPCB Norms		<100	NA	100	NA
III	**Sponge Iron Plant**						**Plant Capacity: 2.0 MTPA**					
1	Flue Gas Ejector Stack	Reformer	40	2.851	I.D Fan	02/04/24 17:15 Hrs	3771	42	5	12.0	7.6	16
						04/05/24 13:45 Hrs	3978	40	6	24.3	20.8	17
						26/06/24 16:45 Hrs	3496	40	9	17.0	21.0	26
						14/07/24 09:45 Hrs	3865.0	38	1	16.0	14.0	24
						07/08/24 16:00 Hrs	4095.0	40	9	22.0	24.0	28
						23/09/24 16:45 Hrs	4082.0	40	15	18.0	19.0	21.4

*NA-Not Applicable

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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	NOx	CO
2	Furnace Dust Collector Stack	Furnace	30	0.9	Cyclone & Venturi Scrubber	02/04/24 10:30 Hrs	3771	8	26	NA	NA	NA
						04/05/24 11:00 Hrs	3978	6	18	NA	NA	NA
						26/06/24 14:25 Hrs	3496	7	21	NA	NA	NA
						14/07/24 15:15 Hrs	3865.0	7	19	NA	NA	NA
						07/08/24 10:30 Hrs	4095.0	7	22	NA	NA	NA
						23/09/24 10:25 Hrs	4082.0	7	26	NA	NA	NA
3	Screen Dust Collector Stack C304	Prodct screen Area	30	0.9	Venturi Scrubber	22/04/24 14:35Hrs	3864	6	21	NA	NA	NA
						08/05/24 12:05 Hrs	3796	6	23	NA	NA	NA
						28/06/24 14:45 Hrs	3488	6	26	NA	NA	NA
						14/07/24 16:45 Hrs	3865.0	7	16	NA	NA	NA
						07/08/24 14:25 Hrs	4095.0	6	18	NA	NA	NA
						23/09/24 12:35 Hrs	4082.0	7	20	NA	NA	NA
4	Screen Dust Collector Stack I	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	02/04/24 12:00 Hrs	3771	5	28	NA	NA	NA
						07/05/24 10:35 Hrs	3980	7	28	NA	NA	NA
						28/06/24 12:35 Hrs	3488	7	32	NA	NA	NA
						14/07/24 12:30 Hrs	3865.0	8	24	NA	NA	NA
						07/08/24 12:15 Hrs	4095.0	7	21	NA	NA	NA
						26/09/24 15:00Hrs	4098.0	7	33	NA	NA	NA
5	Screen Dust Collector Stack II	Product Screen Area	30	0.9	Cyclone & Venturi Scrubber	27/04/24 07:00 Hrs	3779	5	25	NA	NA	NA
						07/05/24 16:45 Hrs	3980	5	32	NA	NA	NA
						28/06/24 10:15 Hrs	3488	4	29	NA	NA	NA
						13/07/24 09:30 Hrs	3917	6	26	NA	NA	NA
						22/08/24 09:45 Hrs	1587	5	19	NA	NA	NA
						25/09/24 09:00 Hrs	4060	4	22	NA	NA	NA

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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	NOx	CO
IV	**Blast Furnace Plant**						**Plant Capacity: 3.5 MTPA**					
6	Product Silo Dust Collector Stack	Product Silo	30	0.9	Venturi Scrubber	02/04/24 15:00 Hrs	3771	6	13	NA	NA	NA
						08/05/24 10:15 Hrs	3796	6	18	NA	NA	NA
						28/06/24 16:25 Hrs	3488	4	15	NA	NA	NA
						13/07/24 16:30 Hrs	3917	5	15	NA	NA	NA
						22/08/24 11:45 Hrs	1587	6	23	NA	NA	NA
						23/09/24 15:15 Hrs	4082	5	19	NA	NA	NA
							CPCB Norms		< 50		NA	NA
1	Cast House Dedusting system	Stock House	45	2.5	Bag Filters	06/04/24 10:00 Hrs	5408	8	20	NA	NA	NA
						13/05/24 11:25 Hrs	5159	10	14	NA	NA	NA
						15/06/24 10:30 Hrs	9445	11	22	NA	NA	NA
						10/07/24 10:15 Hrs	10157.0	10	7	NA	NA	NA
						19/08/24 15:15 Hrs	10283.0	12	12	NA	NA	NA
						11/09/24 10:15 Hrs	10175.0	8	24	NA	NA	NA
2	Stock House- 1	Stock House	45	2.5	Bag Filters	16/04/24 10:30 Hrs	6025	17	28	NA	NA	NA
						14/05/24 10:00 Hrs	5204	14	19	NA	NA	NA
						07/06/24 10:30 Hrs	449	14	19	NA	NA	NA
						17/07/24 12:00 Hrs	10066	11	15	NA	NA	NA
						19/08/24 10:15 Hrs	10283	8	16	NA	NA	NA
						19/09/24 10:15 Hrs	102298	8	36	NA	NA	NA

'*NA-Not Applicable

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									Particulate Matter (PM)	SO_2	NOx	CO
3	Stock House- 2	Stock House	45	2.5	Heat Exchanger	16/04/24 15:25 Hrs	6025	8	25	NA	NA	NA
						14/05/24 17:05 Hrs	5204	8	21	NA	NA	NA
						07/06/24 15:40 Hrs	449	8	17	NA	NA	NA
						17/07/24 10:00 Hrs	10066.0	7	10	NA	NA	NA
						19/08/24 12:45 Hrs	10283.0	7	8	NA	NA	NA
						19/09/24 14:30 Hrs	10229.0	7	32	NA	NA	NA
4	Stock House- 3	Stock House	45	2.5	Bag Filters	06/04/24 12:00 Hrs	5408	12	6	16.0	21.0	19
						01/05/24 12:30 Hrs	6226	10	5	22.0	27.0	24
						15/06/24 16:23 Hrs	9445	12	6	18.0	26.0	32
						17/07/24 10:20 Hrs	10066.0	8	17	NA	NA	NA
						19/08/24 16:55 Hrs	10283.0	8	13	NA	NA	NA
						19/09/24 16:10 Hrs	10229.0	8	27	NA	NA	NA
5	Stove stack	Stove Unit	75	5	Heat Exchanger	06/04/24 12:00 Hrs	5408	12	6	16.0	21.0	19
						01/05/24 12:30 Hrs	6226	10	5	22.0	27.0	24
						15/06/24 16:23 Hrs	9445	12	6	18.0	26.0	32
						10/07/24 10:15 Hrs	10157.0	11	6	18.0	26.0	32.00
						11/08/24 17:00 Hrs	9829.0	13	14	23.0	26.0	39.00
						11/09/24 17:00 Hrs	10175.0	11	11	18.0	27.1	25.00
6	16 TPH Boiler Stack	16 TPH Boiler	59.5	1.2	Blower	10/04/24 09:05 Hrs	202	8	18	16.0	15.0	10
						13/05/24 15:30 Hrs	124	9	12	17.0	13.0	10
						15/06/24 12:00 Hrs	129	9	16	14.0	23.0	18
						03/07/24 16:15 Hrs	58.0	7	4	13.0	10.0	15.00
						12/08/24 10:25 Hrs	151.0	7	17	24.0	17.0	23.00
						07/09/24 14:20 Hrs	13.0	7	15	24.0	17.0	23.00

Preapared By
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Manager (Environment)

Checked By
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General Manager (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	NOx	CO
7	Coal Injection Plant	Coal Injection Unit	60.5	1.7	Bag Filters	16/04/24 17:05 Hrs	6025	8	34	NA	NA	NA
						01/05/24 15:30 Hrs	6226	8	29	NA	NA	NA
						15/06/24 14:50 Hrs	9445	8	29	NA	NA	NA
						09/07/24 16:25 Hrs	10182.0	8	17	NA	NA	NA
						12/08/24 12:15 Hrs	9753.0	8	14	NA	NA	NA
						25/09/24 17:05 Hrs	10131.0	7	29	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	18/04/24 16:00 Hrs	7466	6.20	24	NA	NA	NA
						03/05/24 14:05 Hrs	7246	6.80	17	NA	NA	NA
						11/06/24 10:20 Hrs	6573	7.20	17	NA	NA	NA
						05/07/24 10:35 Hrs	7596.0	5.20	15	NA	NA	NA
						14/08/24 10:25 Hrs	7352.0	6.80	13	NA	NA	NA
						17/09/24 10:45 Hrs	7440.0	7.20	21	NA	NA	NA
2	Flux ESP Stack	Raw Material Crushing & Screening House	50	2.404	Electrostatic Precipitators	18/04/24 09:20 Hrs	7466	6.80	25	NA	NA	NA
						03/05/24 15:25 Hrs	7246	7.50	24	NA	NA	NA
						11/06/24 12:05 Hrs	6573	5.90	24	NA	NA	NA
						05/07/24 12:05 Hrs	7596.0	6.80	18	NA	NA	NA
						14/08/24 12:05 Hrs	7352.0	7.20	16	NA	NA	NA
						17/09/24 12:20 Hrs	7440.0	6.50	26	NA	NA	NA

*NA-Not Applicable

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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	NOx	CO
3	Propotioning ESP Stack	Propotioning House	50	2.404	Electrostatic Precipitators	18/04/24 17:20 Hrs	7466	7.40	28	NA	NA	NA
						03/05/24 16:35 Hrs	7246	7.20	26	NA	NA	NA
						11/06/24 15:35 Hrs	6573	6.80	27	NA	NA	NA
						05/07/24 15:25 Hrs	7596.0	6.50	21	NA	NA	NA
						14/08/24 10:25 Hrs	7352.0	7.80	19	NA	NA	NA
						17/09/24 15:35 Hrs	7440.0	7.50	28	NA	NA	NA
4	Main Stack	Sintering House	140	4.200	Electrostatic Precipitators	18/04/24 11:20 Hrs	7466	8.85	36	24.00	27.00	31
						14/05/24 14:12 Hrs	7202	8.65	37	24.00	32.00	41
						09/06/24 12:30 Hrs	7407	8.71	36	31.00	20.00	27
						15/07/24 11:15 Hrs	7446.0	8.94	32	28.00	19.00	43
						20/08/24 10:00 Hrs	7307.0	9.23	32	38.00	29.00	42
						03/09/24 10:30 Hrs	7319.0	9.22	38	26.00	21.00	28
5	Product Sinter Sizing & Discharge End ESP Stack	Product Sinter Sizing House & Product Discharge End	60	4.508	Electrostatic Precipitators	18/04/24 14:15 Hrs	7466	9.85	31	NA	NA	NA
						14/05/24 11:15 Hrs	7202	9.93	29	NA	NA	NA
						09/06/24 14:45 Hrs	7407	10.00	29	NA	NA	NA
						15/07/24 16:00 Hrs	7446.0	9.37	34	NA	NA	NA
						20/08/24 12:00 Hrs	7307.0	9.75	28	NA	NA	NA
						03/09/24 15:45 Hrs	7319.0	9.55	32	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	NOx	CO
VI	**Sinter Plant -II**					**Plant Capacity: 2.5 MTPA**						
1	Main ESP	Sinter Machine	85	5.5	Electrostatic	13/04/24 11:15 Hrs	8150	15.4	28	26.0	28.0	37
						12/05/24 15:30 Hrs	8231	16.8	33	21.0	14.0	24
						06/06/24 12:30 Hrs	8179	17.4	19	16.0	24.0	28
						16/07/24 10:30 Hrs	8086.0	17.5	17	22.0	15.0	28
						13/08/24 11:15 Hrs	3410.0	17.3	22	23.0	20.0	26
						09/09/24 14:15 Hrs	6727.0	17.4	26	17.0	13.0	31
2	Bag Filter- 1 (Flux/Fuel Crush Or Building	Crusher Building	35	4.7	Bag Filters	23/04/24 10:00 Hrs	8144	5.4	12	NA	NA	NA
						12/05/24 10:05 Hrs	8321	6.5	12	NA	NA	NA
						06/06/24 10:30 Hrs	8179	6.5	10	NA	NA	NA
						24/07/24 10:10 Hrs	7526.0	6.1	12	NA	NA	NA
						16/08/24 10:05 Hrs	7828.0	5.8	10	NA	NA	NA
						14/09/24 10:05 Hrs	8150.0	6.2	16	NA	NA	NA
3	Bag Filter- 2 (Flux/Fuel Screen Building)	Screen Building	35	1.4	Bag Filters	17/04/24 14:15 Hrs	8308	4.5	17	NA	NA	NA
						12/05/24 12:10 Hrs	8321	5.1	12	NA	NA	NA
						06/06/24 16:30 Hrs	8179	5.1	14	NA	NA	NA
						11/07/24 10:00 Hrs	8439.0	5.1	16	NA	NA	NA
						16/08/24 12:25 Hrs	7828.0	4.2	18	NA	NA	NA
						12/09/24 10:20 Hrs	8391.0	5.2	23	NA	NA	NA

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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	NOx	CO
4	Bag Filter- 3(Near Sinter Product Screen Building)	Sinter Product Screen Building	29	1.0	Bag Filters	17/04/24 16:22 Hrs	8308	4.6	16	NA	NA	NA
						12/05/24 16:45 Hrs	8321	6.2	16	NA	NA	NA
						08/06/24 10:35 Hrs	8184	6.2	13	NA	NA	NA
						11/07/24 12:05 Hrs	8439.0	3.9	14	NA	NA	NA
						17/08/24 10:15 Hrs	8345.0	5.5	12	NA	NA	NA
						12/09/24 12:00 Hrs	8391.0	5.2	20	NA	NA	NA
5	Bag Filter- 4 (Near Sinter Product Crusher & HLQRF)	Sinter Product Crusher & HLQRF	22	0.9	Bag Filters	17/04/24 10:12 Hrs	8308	4.9	15	NA	NA	NA
						05/05/24 10:15 Hrs	7849	3.4	13	NA	NA	NA
						08/06/24 12:00 Hrs	8184	3.4	18	NA	NA	NA
						11/07/24 14:15 Hrs	8439.0	6.2	17	NA	NA	NA
						17/08/24 12:20 Hrs	8345.0	6.5	15	NA	NA	NA
						12/09/24 14:30 Hrs	8391.0	6.8	19	NA	NA	NA
6	Bag Filter- 5 (Near Banker House & JHO8)	Banker House & JHO8	32	0.9	Bag Filters	17/04/24 12:20 Hrs	8308	3.9	17	NA	NA	NA
						05/05/24 12:30 Hrs	7849	5.2	16	NA	NA	NA
						08/06/24 14:15 Hrs	8184	5.2	16	NA	NA	NA
						11/07/24 16:25 Hrs	8439.0	5.0	19	NA	NA	NA
						17/08/24 15:40 Hrs	8345.0	5.6	16	NA	NA	NA
						12/09/24 15:45 Hrs	8391.0	6.9	21	NA	NA	NA

*NA-Not Applicable

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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	NOx	CO
7	Bag Filter- 6(Banker House)	Banker House	33.5	1.0	Bag Filters	23/04/24 12:10 Hrs	8144	4.0	13	NA	NA	NA
						05/05/24 14:20 Hrs	7849	3.8	16	NA	NA	NA
						08/06/24 15:25 Hrs	8184	3.8	13	NA	NA	NA
						24/07/24 12:25 Hrs	7526.0	4.1	15	NA	NA	NA
						16/08/24 14:00 Hrs	7828.0	3.8	14	NA	NA	NA
						14/09/24 12:25 Hrs	8150.0	3.8	13	NA	NA	NA
8	Bag Filter- 7 (Fuel Storage Crusher Building)	Fuel Storage Crusher Building	33.5	0.8	Bag Filters	23/04/24 14:25 Hrs	8444	4.2	15	NA	NA	NA
						05/05/24 16:25 Hrs	7849	4.0	14	NA	NA	NA
						08/06/24 16:45 Hrs	8184	4.0	13	NA	NA	NA
						24/07/24 15:15 Hrs	7526.0	3.8	12	NA	NA	NA
						16/08/24 16:23 Hrs	7828.0	4.0	13	NA	NA	NA
						14/09/24 15:35 Hrs	8150.0	4.0	13	NA	NA	NA
VII	**Captive Power Plant (55 MW)**											
1	Boiler Stack	Boiler	40	5.0	Blower	27/04/24 14:00 Hrs	54	14.2	3	21.2	4.2	12
						25/05/24 14:25 Hrs	54	15.3	1	16.6	24.5	23
						19/06/24 16:15 Hrs	54	14.7	2	24.0	26.0	42
						07/07/24 14:30 Hrs	54	12.8	1.5	24.5	2.1	23.0
						18/08/24 10:00 Hrs	54	12.8	1.8	15.0	23.0	19.0
						25/09/24 12:30 Hrs	53	13.5	2.8	16.0	21.0	26.6
	*NA-Not Applicable						CPCB Norms		<150	NA	NA	NA

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JSW STEEL LIMITED

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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	NOx	CO
VIII	**Billet Caster & Bar Mill (1.5 & 1.4 MTPA)**											
1	Billet Caster Stack	Laddle Heating Furnace	80	2.0	Fume extraction system	27/04/24 12:10 Hrs	2241	7.2	17	14.0	21.0	18
						25/05/24 12:25 Hrs	594	6.8	13	21.0	10.0	12
						26/06/24 12:15 Hrs	2710	6.8	6	13.0	16.0	19
						21/07/24 10:30 Hrs	2630.0	7.8	10	NA	NA	NA
						18/08/24 12:00 Hrs	2374.0	6.9	12	NA	NA	NA
						26/09/24 12:30Hrs	2918.0	7.2	14	12.0	14.0	20.72
2	Bar Mill Stack	Reheating Furnace	80	3.0	Bag Filter	27/04/24 10:20 Hrs	2253	16.2	4.20	12.0	16.0	14
						25/05/24 10:05 Hrs	3588	15.4	7.47	12.0	18.0	27
						26/06/24 10:35 Hrs	3369	16.2	8.00	14.0	19.0	26
						21/07/24 12:30 Hrs	4096.0	15.4	7.45	9.0	28.7	35.0
						18/08/24 15:15 Hrs	3175.0	16.2	8.92	18.0	25.0	31.0
						26/09/24 10:20Hrs	3552.0	15.8	10.20	25.0	19.0	17.0
							CPCB Norms		<50	NA	NA	NA
IX	**Coke oven Plant -II**						**Plant Capacity: 2.5 MTPA**					
1	Coke Oven Battery Main Stack 1	Coke Oven Battery	150	11.0	Electrostatic Precipitators	11/04/24 11:30 Hrs	6682	10.7	43	156	124	145
						10/05/24 16:30 Hrs	5332	11	37	156	124	145
						03/06/24 15:25 Hrs	5152	12.5	45	116	145	186
						01/07/24 10:15 Hrs	6837	13.5	42	105	121	138
						06/08/24 15:15 Hrs	7357	7.9	44	115	128	142
						04/09/24 15:40 Hrs	6929	8.9	40	122	136	148
2	Coke Oven Battery Pushing Side	Coke Oven Battery Pushing Side	30	2.8	Bag Filters	11/04/24 15:15 Hrs	6682	6.2	6	NA	NA	NA
						10/05/24 14:15 Hrs	5332	7.8	5	NA	NA	NA
						03/06/24 10:35 Hrs	5152	6.2	7	NA	NA	NA
						01/07/24 14:10 Hrs	6837	2.48	3	NA	NA	NA
						06/08/24 10:25 Hrs	7357	4.49	10	NA	NA	NA
						04/09/24 10:00 Hrs	6929	5.6	16	NA	NA	NA

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									Particulate Matter (PM)	SO_2	NOx	CO
3	Coke Oven Battery Charging Side	Coke Oven Battery Charging Side	29.5	1.5	Bag Filters	11/04/24 16:30 Hrs	6682	4.7	3	NA	NA	NA
						10/05/24 15:05 Hrs	5332	5.6	4	NA	NA	NA
						03/06/24 12:05 Hrs	5152	5.9	6	NA	NA	NA
						01/07/24 16:20 Hrs	6837	2.8	4	NA	NA	NA
						06/08/24 12:00 Hrs	7357	4.41	13	NA	NA	NA
						04/09/24 12:15 Hrs	6929	6.2	15	NA	NA	NA
4	Coal Crushing	Coal Crushing de dusting	19.5	1.5	Bag Filters	29/04/24 10:25Hrs	6597	4.2	12	NA	NA	NA
						18/05/24 10:25 Hrs	5871	3.9	11	NA	NA	NA
						05/06/24 10:05 Hrs	5380	4.2	10	NA	NA	NA
						02/07/24 14:30 Hrs	6453.0	4.8	9	NA	NA	NA
						09/08/24 10:05 Hrs	7008.0	5.2	10	NA	NA	NA
						24/09/24 10:25 Hrs	6913.0	6.2	14	NA	NA	NA
5	Coke Cutting	Coke Cutting de dusting	25	1.8	Bag Filters	22/04/24 10:15Hrs	7224	5.1	16	NA	NA	NA
						18/05/24 12:15 Hrs	5871	5.6	14	NA	NA	NA
						05/06/24 12:25 Hrs	5380	5.1	14	NA	NA	NA
						02/07/24 16:45 Hrs	6453.0	3.9	12	NA	NA	NA
						09/08/24 12:15 Hrs	7008.0	6.0	14	NA	NA	NA
						26/09/24 10:20Hrs	6853.0	5.8	16	NA	NA	NA
6	Coke Bunker	Coke Bunker	30	2.5	Bag Filters	22/04/24 12:25Hrs	7224	6.8	17	NA	NA	NA
						18/05/24 10:25 Hrs	5871	7.1	16	NA	NA	NA
						05/06/24 14:35 Hrs	5380	6.2	17	NA	NA	NA
						01/07/24 12:25 Hrs	6837.0	7.8	15	NA	NA	NA
						09/08/24 14:25 Hrs	7008.0	6.2	13	NA	NA	NA
						24/09/24 12:00 Hrs	6913.0	7.2	17	NA	NA	NA
7	Boiler	Boiler	30	1.0	Blower	25/04/24 12:10 Hrs	246	7.6	18	14.0	18.0	19
						10/05/24 12:00 Hrs	237	8.1	19	11.5	16.4	21
						10/06/24 12:05 Hrs	5564	8.1	21	10.0	15.0	19
						03/07/24 12:20 Hrs	233.0	6.8	15	15.0	18.0	32
						03/08/24 12:05 Hrs	7048.0	5.8	11	16.0	21.0	25
						18/09/24 12:00 Hrs	406.0	6.5	16	16.0	21.0	25

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									Particulate Matter (PM)	SO_2	NOx	CO
1	Coke Oven Battery Main Stack (C &D)	Coke Oven Battery	150	11.04	Natural Draft	21/04/24 15:20 Hrs	7032	13.2	36.5	166.0	118.0	125
						16/05/24 11:25 Hrs	6500	12.9	40.0	123.0	131.0	142
						04/06/24 16:05 Hrs	5340	10.8	36.4	142.0	188.0	166
						06/07/24 15:25 Hrs	6673.0	12.0	38.5	131.0	142.0	152.0
						08/08/24 16:25 Hrs	7224.0	12.0	41.0	105.0	122.0	133.0
						06/09/24 16:25 Hrs	6841.0	10.5	38.9	116.0	132.0	144.0
2	Coke Oven Battery Pushing Side	Coke Oven Battery Pushing Side	30	2.8	Bag Filters	21/04/24 10:10 Hrs	7032	7.2	3.9	NA	NA	NA
						16/05/24 14:20 Hrs	6500	6.8	5.2	NA	NA	NA
						04/06/24 10:22 Hrs	5340	6.1	5.2	NA	NA	NA
						06/07/24 11:05 Hrs	6673.0	7.2	3.5	NA	NA	NA
						08/08/24 10:00 Hrs	724.0	4.0	8.5	NA	NA	NA
						06/09/24 10:35 Hrs	6841.0	6.6	13.5	NA	NA	NA
3	Coke Oven Battery Charging Side	Coke Oven Battery Charging Side	29.5	1.5	Bag Filters	21/04/24 11:50 Hrs	7032	7.0	4.2	NA	NA	NA
						16/05/24 16:15 Hrs	6500	5.8	2.9	NA	NA	NA
						04/06/24 12:15 Hrs	5340	5.5	4.2	NA	NA	NA
						06/07/24 12:35 Hrs	6673.0	6.2	2.5	NA	NA	NA
						08/08/24 12:15 Hrs	7224.0	5.6	12.5	NA	NA	NA
						06/09/24 12:15 Hrs	6841.0	7.2	16.2	NA	NA	NA

*NA-Not Applicable

Preapared By
P.P.Nandusekar
Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

JSW STEEL LIMITED

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

WORK PLACE AIR QUALITY MONITORING REPORT

Sr. No.	LOCATION	DATE	PM10 (µg/m3)	SO2 (µg/m3)	NOX (µg/m3)
Blast Furnace					
1	Near Stock House	10-04-2024	1719	8.76	24.82
		14/05/2024	1703	8.16	23.05
		07-06-2024	1547	2.89	36.35
		04-07-2024	1862	5.00	19.22
		06-08-2024	1799	5.00	19.27
		09-09-2024	1827	6.30	21.56
2	Near Stove Area	10-04-2024	1668	5.52	24.67
		14/05/2024	1456	6.57	25.44
		08-06-2024	1461	4.20	38.08
		05-07-2024	1240	3.90	18.41
		06-08-2024	1287	3.90	18.50
		09-09-2024	1743	5.80	20.02
3	Near Cast House (East)	10-04-2024	1700	6.57	28.52
		15/05/2024	1514	7.36	23.90
		07-06-2024	1832	2.89	25.96
		04-07-2024	1813	7.40	11.10
		06-08-2024	1681	3.70	13.88
		09-09-2024	1852	9.10	27.68
4	Near Cast House (West)	04-10-2024	1706	7.81	22.90
		15-05-2024	1762	8.11	25.55
		08-06-2024	1784	3.42	24.23
		05-07-2024	1763	4.70	14.59
		07-08-2024	1579	4.70	14.65
		10-09-2024	1615	4.80	19.74
5	Near Slag Granulation Plant	11-04-0224	1404	8.41	16.96
		14/05/2024	1745	8.14	19.27
		07-06-2024	1613	3.68	22.50
		04-07-2024	1217	3.90	18.41
		07-08-2024	1451	3.90	18.50
		09-09-2024	1705	6.00	21.48
6	Near Pig Casting Machine -I	04-11-2024	1789	8.14	24.67
		14/05/2024	1625	8.41	22.35
		08-06-2024	1652	3.15	29.42
		05-07-2024	1559	5.00	16.17
		07-08-2024	1267	5.00	16.19
		10-09-2024	1831	7.10	16.96

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
01-04-2024	14	38	6.04	10.08	0.83	31	88	6.54	34.25	0.87	18	17	5.47	28.74	0.52	31	73	5.53	9.63	0.21	46	93	5.65	18.5	0.66
02-04-2024	11	21	6.13	8.12	0.71	28	85	6.24	22.64	0.7	17	18	5.59	30.72	0.57	19	56	4.65	9.79	0..36	54	79	5.05	19.02	0.6
03-04-2024	11	15	6.2	6.93	0.73	26	62	6	17.1	0.71	45	90	5.73	21.99	0.68	16	58	5.22	9.47	0.48	59	85	5.11	14.32	0.6
04-04-2024	19	29	6.22	8.95	0.77	23	91	6.06	24.16	0.59	48	88	5.53	30.25	0.62	19	57	4.83	9.9	1.21	42	92	5.37	15.07	0.59
05-04-2024	11	25	6.15	9.26	0.76	35	86	6.02	33.75	0.95	41	82	5.88	24.5	0.46	21	73	4.66	9.84	0.57	39	91	5.31	14.26	0.59
06-04-2024	46	95	6.13	9.27	0.85	42	87	5.98	29.99	0.82	56	83	6.00	25.47	0.49	29	93	5.38	9.91	0.89	29	87	5.32	16.18	0.58
07-04-2024	58	93	6.13	9.35	0.87	47	81	5.99	29.2	0.73	34	74	5.92	23.17	0.39	26	78	4.82	9.7	1.02	24	60	5.25	15.98	0.62
08-04-2024	33	90	6.21	8.45	0.82	29	81	5.96	21.96	0.83	31	86	6.29	24.36	0.45	20	64	4.94	9.57	0.86	34	88	5.26	15.81	0.58
09-04-2024	26	58	6.22	7.69	0.77	25	76	6.05	21.42	0.82	35	81	5.72	16.37	0.52	18	47	5.19	9.63	0.74	41	73	5.15	12.37	0.54
10-04-2024	21	44	6.05	7.63	0.7	17	62	6.1	13.71	0.6	26	67	5.34	13.3	0.46	18	53	5.54	10.66	1.68	35	58	5.59	19.15	0.46
11-04-2024	18	35	5.98	8.12	0.95	19	57	6.06	18.36	0.81	26	67	5.84	17.96	0.7	18	46	5.24	9.71	1.23	35	73	7.37	63.42	0.6
12-04-2024	17	34	6.04	7.01	0.72	14	45	5.76	19.62	0.57	30	72	5.18	19.96	0.71	42	61	5.9	10.28	0.97	37	60	7.71	70.06	0.71
13-04-2024	19	41	6.03	7.73	0.74	21	72	5.53	21.93	0.53	31	75	5.62	30.08	0.66	11	47	4.67	10.14	1.14	35	59	7.33	67.71	0.62
14-04-2024	25	63	6.11	7.95	0.77	54	95	6.28	23.45	0.49	23	54	5.14	15.68	0.5	20	48	4.91	10.61	1.21	23	52	7.68	61.52	0.55
15-04-2024	43	87	6.16	14.12	0.92	59	99	6.44	26.32	0.76	34	77	5.59	15.91	0.83	28	70	5.69	9.93	0.82	39	66	7.78	54.57	0.73
16-04-2024	44	96	6.14	7.51	0.96	55	96	3.13	20.97	0.75	51	93	5.73	25.39	1.59	18	46	5.68	9.18	1.53	58	94	8.01	23.66	0.84
17-04-2024	28	53	6.04	5.32	0.8	42	87	3	10.91	0.53	37	89	5.79	15.81	1.48	19	42	5.65	9.26	1.37	50	84	7.51	18.16	0.85
18-04-2024	26	49	6.23	6.17	0.84	32	50	6.39	12.15	0.62	36	81	6.59	10.48	1.02	16	50	5.37	10.06	1.05	45	85	7.25	17.27	0.59
19-04-2024	33	73	6.43	6.31	1.03	52	85	8.24	14.19	0.68	34	78	6.44	10.11	0.89	15	47	5.28	9.61	1.31	34	78	7.27	17.24	0.61
20-04-2024	33	79	6.24	7.1	0.84	32	81	7.39	13.79	0.64	30	90	6.78	11.23	0.94	15	60	4.98	9.77	1.73	43	98	7.74	20.19	0.58
21-04-2024	31	82	6.2	6.31	0.86	41	93	5.59	29.27	0.94	26	65	6.35	7.29	0.72	17	65	5.09	9.98	1.06	37	89	7.34	18.69	0.68
22-04-2024	30	82	6.29	7.14	0.87	21	99	5.66	31.12	0.87	24	56	5.96	11.22	0.71	40	76	5.54	10.24	0.57	25	66	7.77	21.68	0.6
23-04-2024	36	94	6.3	7.79	0.87	10	76	6.07	26.82	0.78	25	69	6.09	13.12	0.72	33	60	4.87	10.05	0.92	22	83	7.72	18.97	0.57
24-04-2024	34	84	6.32	7.12	0.88	11	83	6.26	20.87	0.77	33	86	6.76	17.31	0.76	21	57	4.75	10.39	1.29	39	98	7.2	21.97	0.66
25-04-2024	29	67	6.35	5.9	0.86	31	72	5.95	17.82	0.79	31	92	6.94	13.08	0.76	18	55	4.62	10.53	1.24	41	95	7.57	18.04	0.57
26-04-2024	40	68	7.81	10.49	0.97	39	97	9.51	30.39	0.86	28	74	6.01	19.22	0.8	23	62	4.46	13.91	1.79	29	77	7.64	22.37	0.6
27-04-2024	31	70	7.21	8.69	1.11	39	90	5.91	19.1	0.86	35	90	5.61	11.02	0.79	29	83	4.5	9.78	1.24	45	90	7.93	19.36	0.55
28-04-2024	50	85	7.12	9.01	1.19	51	87	6.17	26.85	0.8	46	95	5.88	15.44	0.87	37	86	4.65	9.94	1.03	55	94	7.98	21.4	0.66
29-04-2024	41	99	7.11	9.27	1.26	54	91	6.22	39.55	0.79	44	93	5.83	33.15	0.84	35	90	4.52	11.42	0.57	43	96	7.91	24.17	0.62
30-04-2024	45	83	7.17	9.36	1.19	39	96	6.7	34.11	0.88	42	98	5.81	31.93	0.85	34	94	4.63	11.15	1.05	42	95	7.57	22.37	0.6

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

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-05-2024	29	70	7.18	6.65	1	29	71	5.73	20.91	0.59	19	69	5.18	16.48	0.78	22	68	4.58	12.27	1.97	36	77	7.51	20.67	0.52
02-05-2024	40	91	8.27	7.27	1.98	31	95	7.38	22.69	0.82	31	90	4.98	18.35	0.96	15	48	4.67	11.11	1.16	38	91	7.23	17.18	0.64
03-05-2024	31	74	7.58	8.4	1.05	35	72	4.24	25.34	0.77	29	92	4.83	18.1	0.97	19	58	4.85	11.11	1.42	41	97	7.31	18.53	0.65
04-05-2024	27	63	7.39	6.83	0.98	45	88	6.49	19.34	0.69	24	61	6.03	10.07	0.82	19	62	4.85	11.74	1.18	33	64	7.66	17.87	0.56
05-05-2024	33	85	7.46	6.88	1.05	19	48	5.77	11.35	0.77	23	54	5.73	9.28	0.87	15	50	5.28	12.16	2.05	32	57	7	17.59	0.56
06-05-2024	16	37	7.33	6.1	0.96	14	73	7.08	13.27	0.74	18	50	5.82	8.89	0.72	13	38	4.92	13.24	1.39	26	52	7.58	18.49	0.5
07-05-2024	42	90	7.55	6.94	1.28	19	87	6.16	17.55	0.76	22	72	5.79	15.52	1.09	11	26	4.78	11.41	1.17	16	57	7.44	16.27	0.46
08-05-2024	26	67	7.49	6	0.98	13	59	6.08	13.31	0.71	18	57	5.2	10.98	0.89	13	36	4.81	13.19	1.42	23	58	7.29	14.74	0.44
09-05-2024	16	37	7.26	5.53	0.94	13	33	6.09	11.8	0.67	17	44	5.05	15.64	0.74	20	36	4.88	9.94	1.14	27	45	7.78	15.99	0.51
10-05-2024	17	42	7.16	5.29	0.97	11	33	6.36	11.76	0.61	17	44	5.48	16.21	0.69	22	71	5.18	11.43	1.3	26	47	8.06	15.13	0.46
11-05-2024	28	69	7.22	9.65	1.05	19	80	5.76	16.66	0.62	21	59	5.72	10.7	0.75	23	72	5.29	15.34	2.13	32	81	7.5	17.64	0.52
12-05-2024	19	44	7.25	7.82	1	17	52	6.05	13.56	0.64	21	54	5.73	6.21	0.74	26	66	5.14	10.87	2.09	22	72	7.35	14.86	0.46
13-05-2024	45	88	7.22	9.35	1.36	28	81	6.16	17.53	0.82	27	82	5.32	7.75	0.86	30	79	5.73	9.88	1.46	25	72	7.5	16.84	0.56
14-05-2024	38	96	7.25	9.39	1.4	33	71	5.99	40.62	0.98	43	95	5.52	11.75	1.07	32	85	5.93	10.87	1.67	42	87	8.37	20.28	0.74
15-05-2024	44	69	7.5	9.94	1.55	31	89	6.16	29.16	0.83	39	87	5.64	12.87	1.2	21	47	5.47	9.96	0.97	48	88	8.74	21.43	0.8
16-05-2024	43	88	7.53	16.79	1.31	30	70	6.01	16.08	0.9	29	67	5.55	8.17	0.77	NA	NA	5.06	9.82	1.11	56	77	6.79	17.59	0.61
17-05-2024	21	37	7.75	14.71	1.64	27	88	6.4	23.41	1.09	32	76	6.08	10.56	1.02	39	82	5.13	9.63	1.06	29	65	7.57	20.31	0.74
18-05-2024	34	74	7.41	11.55	1.05	20	62	5.96	12.34	0.68	26	62	6.07	10.01	0.89	36	58	5.29	9.79	0.93	36	61	7.71	15.22	0.5
19-05-2024	56	89	7.31	9.49	1.01	16	49	6.06	7.38	0.62	25	72	6.05	15.35	0.93	47	64	5.65	9.27	0.68	38	68	7.85	14.25	0.51
20-05-2024	54	90	7.62	8.83	1.17	17	92	6.22	9.72	0.66	29	62	6.15	19.71	1.38	21	58	5.34	10.03	0.83	40	74	7.26	15.91	0.64
21-05-2024	20	52	7.26	8.16	0.96	17	66	6.13	11.74	0.63	37	93	6.59	25.69	0.91	28	64	5.2	11.32	0.88	37	68	7.62	14.62	0.45
22-05-2024	33	81	7.64	9.12	0.78	20	86	6.01	12.09	0.57	34	80	6.2	16.15	1.13	46	66	5.47	10.1	0.8	38	72	7.29	14.36	0.48
23-05-2024	22	53	8.41	8.77	0.43	13	84	5.93	10.29	0.46	30	74	6.28	13.84	0.99	21	66	5.31	10.36	0.86	42	89	6.77	14.85	0.45
24-05-2024	37	90	8.59	7.74	0.47	14	81	6.04	10.05	0.59	27	71	6.47	12.94	0.82	20	70	5.42	10.63	0.91	38	77	5.96	14.75	0.43
25-05-2024	50	70	8.48	7.18	0.34	15	88	6.15	8.49	0.67	30	68	6.2	16.1	0.88	19	67	7.14	12.06	1.22	35	88	6.95	14.18	0.42
26-05-2024	16	29	8.46	6.66	0.33	10	27	5.83	7.71	0.48	31	77	6.49	14.13	0.98	20	86	8.78	10.59	1.17	20	86	7.48	12.43	0.41
27-05-2024	20	50	8.43	6.39	0.34	15	34	6.09	6.94	0.57	41	85	7.44	24.06	1.43	12	46	8.19	19.85	0.78	51	83	6.8	13.58	0.45
28-05-2024	15	34	8.53	6.3	0.31	20	40	5.93	7.29	0.52	42	91	7.42	17.69	1.17	15	66	5.79	11.45	1.27	54	89	7.12	13.82	0.46
29-05-2024	31	89	8.77	6.65	0.49	48	90	5.98	7.15	0.54	41	94	7.08	17.65	1.53	13	50	5.86	10.12	0.84	49	95	7.27	14.59	0.46
30-05-2024	56	75	7.63	8.98	0.8	56	79	6.09	8.35	0.62	30	75	6.65	16.75	0.88	21	94	5.8	10.35	1.07	47	97	6.5	13.91	0.45
31-05-2024	23	63	5.91	9.75	0.64	56	64	6.05	9.15	0.66	25	64	6.34	11.84	0.73	19	78	6.41	11.33	1.68	15	62	7.77	14.7	0.41
Max (µg/m3)	**56**	**96**	**9**	**17**	**2**	**56**	**95**	**7**	**41**	**1**	**43**	**95**	**7**	**26**	**1.53**	**47**	**94**	**9**	**20**	**2**	**56**	**97**	**9**	**21**	**1**
Min (µg/m3)	**15**	**29**	**6**	**5**	**0**	**10**	**27**	**4**	**7**	**0**	**17**	**44**	**5**	**6**	**0.69**	**11**	**26**	**5**	**9**	**1**	**15**	**45**	**6**	**12**	**0**
98%tile(µg/m3)	**56**	**93**	**9**	**16**	**2**	**56**	**93**	**7**	**34**	**1**	**42**	**94**	**7**	**25**	**1.47**	**46**	**89**	**8**	**17**	**2**	**55**	**97**	**9**	**21**	**1**
Standards	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**

Prepared By
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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dalvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-06-2024	12	29	5.72	8.75	0.46	27	45	6.19	20.62	0.68	19	53	6.52	12.07	0.82	17	59	6.52	10.44	1.58	20	86	6.55	13.87	0.44
02-06-2024	28	35	5.83	8.66	0.54	44	99	6.11	19.14	0.67	21	53	7.04	11.04	0.71	18	70	6.21	50.38	1.43	19	59	6.93	12.78	0.41
03-06-2024	39	38	6.23	12.87	1.24	59	65	6.13	16.33	0.76	26	57	7.48	12.07	0.77	13	40	6.38	24.53	1.52	28	58	8.04	16.55	0.52
04-06-2024	46	53	6.28	27.08	0.73	44	41	6	24.65	0.73	26	67	7.23	22.08	0.8	28	81	6.54	31.41	1.37	36	80	6.99	20.96	0.47
05-06-2024	27	40	6.39	16.91	1.05	39	89	6	16.81	0.61	25	68	6.88	17.75	2.69	18	65	5.9	32.15	1.04	29	60	7.64	16.28	0.47
06-06-2024	57	50	6.85	18.57	1.61	56	79	5.96	13.23	0.48	25	57	6.89	9.7	0.67	17	66	5.55	16.74	1.05	27	49	7.59	15.4	0.4
07-06-2024	20	51	6.13	13.05	0.5	38	68	6.08	13.15	0.75	30	74	7	13.97	0.67	21	97	5.07	11.93	0.7	37	79	7.64	16.7	0.42
08-06-2024	55	54	6.33	14.37	1.35	44	96	5.98	16.95	1	25	54	7.22	11.36	0.67	19	62	5.41	11.32	1.11	24	51	7.79	16.19	0.44
09-06-2024	57	53	6.54	11.29	1.89	55	64	5.87	12.26	0.82	22	46	7.25	11.75	1.05	15	20	5.51	13.92	0.58	26	40	9.02	14.97	0.6
10-06-2024	20	60	6.33	1.26	0.78	26	43	5.96	9.36	0.83	21	43	6.9	15.14	0.89	11	21	5.9	12.11	0.55	18	34	7.85	14.62	0.46
11-06-2024	42	54	6.51	5.98	1.1	39	89	5.91	9.58	0.81	23	49	6.78	14.73	1.62	11	15	6.29	18.31	0.51	13	43	6.14	15.16	0.52
12-06-2024	48	54	7.03	17.69	1.46	51	74	6.24	14.81	0.58	30	72	7.11	20.91	2.02	13	35	6.6	12.36	0.48	18	44	7.99	15.59	0.54
13-06-2024	NA	44	7.59	19.07	1.75	60	60	6.34	15.9	0.7	12	35	7.06	7.93	0.66	12	19	6.94	12.67	0.58	9	26	7.95	14.6	0.55
14-06-2024	NA	39	7.5	21.08	1.95	49	96	5.11	13.61	0.54	14	30	7.17	9	0.92	12	16	7.25	11.52	0.58	4	22	7.78	13.81	0.44
15-06-2024	58	59	7.1	20.15	2.01	50	59	5.52	14.85	0.53	32	80	8.17	9.35	0.82	14	28	7.5	11.8	0.58	6	26	7.57	13.12	0.46
16-06-2024	49	44	7	16.67	1.69	52	59	6.22	10.48	0.63	38	85	7.69	15.96	1.51	13	20	7.89	10.72	0.62	19	51	8.24	12.9	0.51
17-06-2024	25	88	7.73	18.83	1.59	42	69	6	12.02	0.69	23	61	7.6	13.24	1.07	14	34	8.42	10.6	0.7	39	67	6.28	14.5	0.49
18-06-2024	36	75	7.04	17.16	1.61	34	88	6.09	9.03	0.66	33	94	7.36	15.45	1.24	17	50	8.79	10.36	0.87	43	72	6.88	16.9	0.84
19-06-2024	51	68	6.91	19.67	2.03	42	75	6.13	9.48	0.57	45	75	7.41	15.05	1.36	13	28	9.06	10.41	0.77	46	68	7.38	16.22	0.77
20-06-2024	39	88	8.69	22	1.88	32	81	6.21	7.58	0.58	19	54	7.73	12.57	1.14	15	17	9.81	12.91	0.72	40	57	8.25	15.65	0.74
21-06-2024	40	63	7.84	21.21	1.54	20	92	6.23	6.92	0.74	22	53	7.92	21.25	1.78	6	35	10.45	12.83	0.96	58	96	7.61	17.62	0.88
22-06-2024	56	90	12.6	49.92	0.93	29	79	6.14	8.6	0.85	22	41	7.65	11.42	0.75	NA	30	10.74	12.7	0.96	24	51	8.34	15.17	0.53
23-06-2024	NA	NA	NA	NA	NA	31	57	6.38	8.8	0.5	32	83	7.77	14.49	1.43	NA	54	11.24	12.63	0.86	25	77	7.06	14.44	0.49
24-06-2024	NA	NA	NA	NA	NA	52	95	6.09	9.3	0.6	27	67	7.62	13.13	1.16	NA	64	11.3	13.65	0.86	19	34	7.79	13.15	0.39
25-06-2024	NA	NA	NA	NA	NA	54	75	6.06	11.51	0.63	24	71	7.49	6.75	0.5	NA	83	11.59	11.64	0.88	29	38	6.88	12.62	0.39
26-06-2024	NA	NA	NA	NA	NA	28	68	5.96	11.84	0.61	28	64	7.96	11.35	0.77	NA	21	11.49	12.16	0.89	38	54	6.81	15.7	0.88
27-06-2024	NA	NA	NA	NA	NA	45	43	6.12	10.78	0.51	23	42	7.49	10.02	0.67	NA	NA	NA	NA	NA	25	35	8.29	14.48	1.03
28-06-2024	NA	NA	NA	NA	NA	28	83	6.22	9.76	0.54	22	38	7.24	11.41	0.6	NA	NA	NA	NA	NA	27	50	6.96	15.02	1.07
29-06-2024	NA	NA	NA	NA	NA	47	90	6.12	11.75	0.66	27	59	7.16	14.44	0.73	NA	NA	NA	NA	NA	53	88	8.43	17.4	1.29
30-06-2024	NA	NA	NA	NA	NA	46	55	5.97	9.89	0.6	26	76	7.29	17.94	1.54	NA	NA	NA	NA	NA	43	55	8.04	21.43	1.95
Max (µg/m3)	**58**	**90**	**13**	**50**	**2**	**60**	**99**	**6**	**25**	**1**	**45**	**94**	**8**	**22**	**2.69**	**28**	**97**	**12**	**50**	**2**	**58**	**96**	**9**	**21**	**2**
Min (µg/m3)	**12**	**29**	**6**	**1**	**0**	**20**	**41**	**5**	**7**	**0**	**12**	**30**	**7**	**7**	**0.50**	**6**	**15**	**5**	**10**	**0**	**4**	**22**	**6**	**13**	**0**
98%tile(µg/m3)	**57**	**89**	**11**	**40**	**2**	**59**	**97**	**6**	**22**	**1**	**41**	**88**	**8**	**22**	**2.30**	**25**	**90**	**12**	**41**	**2**	**55**	**91**	**9**	**21**	**2**
Standards	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2.**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3
01-07-2024	NA	NA	6.78	5.00	1.73	17	24	6.48	8.01	0.49	27	79	6.94	14.89	1.2	NA	NA	NA	NA	NA	41	83	8.42	42.69
02-07-2024	23	90	6.6	16.41	1.27	9	78	6.21	8.84	0.52	41	96	7.66	39.79	2.64	NA	NA	NA	NA	NA	59	80	8.97	56.75
03-07-2024	22	84	6.8	15.45	1.09	10	32	6.35	10.03	0.48	37	95	7.73	26.99	2.44	NA	NA	NA	NA	NA	53	87	7.51	68.3
04-07-2024	28	46	6.73	11.57	0.93	12	22	5.79	9.25	0.6	41	84	7.8	34	4.3	NA	NA	NA	NA	NA	41	72	7.78	49.6
05-07-2024	45	87	7.01	5.69	0.87	11	19	6.29	10.33	0.6	41	76	8.31	30.38	3.15	14	42	10.32	15.06	2.15	50	86	9.36	57.77
06-07-2024	18	50	7.43	11.89	0.8	7	17	6.11	8.09	0.58	51	78	8.13	43.77	5.31	86	77	11.36	21.79	1.48	32	95	7.75	42.3
07-07-2024	40	83	7.85	15.33	0.99	10	19	4.08	9.63	0.62	44	78	8.18	33.58	6.13	13	39	10.54	11.27	2.15	39	70	7.06	32.67
08-07-2024	32	83	8.53	32.37	2.75	13	80	6.26	11.35	0.85	13	15	7.81	7.93	4.12	20	9	12.43	17.42	2.07	9	10	5.66	16.16
09-07-2024	NA	NA	NA	NA	NA	17	90	8.14	11.3	0.72	19	24	7.59	8.44	0.67	11	16	11.33	13.03	1.52	14	24	7.06	20.37
10-07-2024	NA	NA	NA	NA	NA	31	80	6.44	13.54	0.63	24	37	8.05	10.92	0.68	14	39	10.26	11.34	0.95	20	33	10.02	22.11
11-07-2024	NA	NA	NA	NA	NA	51	87	6.95	10.37	0.73	25	29	8.29	11.84	0.87	12	16	8.41	13.28	0.66	14	22	8.17	21.42
12-07-2024	NA	NA	NA	NA	NA	27	85	6.45	10.94	0.71	20	25	8.21	22.59	1.29	17	21	9.2	13.65	1.02	17	29	7.11	24.41
13-07-2024	NA	NA	NA	NA	NA	23	82	7.3	11.55	0.62	26	39	8.65	23.87	1.82	9	25	9.03	13.06	0.78	19	46	7.96	25.15
14-07-2024	NA	NA	NA	NA	NA	17	67	5.91	12.33	1.03	25	36	8.38	19.22	1.84	33	75	9.34	13.36	1.3	15	36	7.59	22.02
15-07-2024	NA	NA	NA	NA	NA	14	69	6.62	11.76	0.62	18	21	7.75	16.12	0.87	13	18	9.3	14.98	0.81	15	25	6.64	19.14
16-07-2024	NA	NA	NA	NA	NA	20	82	8.06	9.64	0.61	17	25	8.27	10.79	0.75	12	22	9.47	13.65	0.69	24	64	13	27.47
17-07-2024	NA	NA	NA	NA	NA	18	79	12.7	11.47	0.63	17	29	7.79	11.54	1.16	15	42	9.71	18.97	0.7	16	48	9.33	24.6
18-07-2024	NA	NA	NA	NA	NA	14	81	7.38	10.11	0.78	17	26	7.82	15.45	1.84	17	47	10.03	19.7	0.92	31	62	7.42	27.77
19-07-2024	NA	NA	NA	NA	NA	14	50	7.71	8.16	0.81	25	40	8.06	13.03	1.96	22	59	10.14	25.2	1.01	26	86	7.82	31.55
20-07-2024	NA	NA	NA	NA	NA	13	43	8.05	8.93	0.66	30	49	7.95	18.58	2.85	13	27	10.66	18.22	0.75	55	85	7.91	39.77
21-07-2024	NA	NA	NA	NA	NA	7	55	8.46	9.77	0.57	33	58	8.34	25.44	3.8	22	61	10.25	16.06	0.79	33	84	7.47	34.65
22-07-2024	NA	NA	NA	NA	NA	8	31	8.81	7.96	0.57	41	74	8.22	33.03	3.67	27	78	10.48	16.16	0.86	30	84	7.81	43.24
23-07-2024	NA	NA	NA	NA	NA	16	34	9.09	6.2	0.57	46	76	8.52	43.74	3.3	37	83	10.81	24.47	1.01	21	35	7.89	24.13
24-07-2024	NA	NA	NA	NA	NA	14	27	9.26	7.07	0.57	44	78	8.77	40.91	4.4	51	88	11.3	22.73	1.75	20	30	6.51	17.63
25-07-2024	NA	NA	NA	NA	NA	7	84	9.42	8.51	0.55	43	79	8.63	41	3.23	66	85	11.9	24.31	1.77	22	19	7.49	16.4
26-07-2024	NA	NA	NA	NA	NA	10	20	9.63	8.89	0.46	50	89	8.91	41.73	4.94	56	81	11.87	21.83	0.19	33	69	8.55	19.42
27-07-2024	NA	NA	NA	NA	NA	11	20	9.87	8.06	0.42	48	92	10.06	49.08	3.96	NA	62	10.02	9.55	2.67	29	64	4.98	21.57
28-07-2024	NA	NA	NA	NA	NA	9	33	10.2	7.82	0.5	54	90	9.42	45.86	3.63	NA	63	9.84	9.12	2	35	50	6.13	17.48
29-07-2024	NA	NA	NA	NA	NA	14	41	11	8.61	0.69	45	89	8.94	41.94	4.79	NA	51	10.22	11.52	2.16	39	78	6.89	19.75
30-07-2024	NA	NA	NA	NA	NA	10	30	11.8	8.43	0.68	44	79	9.31	40.5	4.07	NA	27	10.07	9.54	2.03	27	58	7.7	21.66
31-07-2024	NA	NA	NA	NA	NA	10	20	12.3	7.57	0.6	42	89	9.57	42.83	1.41	NA	67	9.94	8.74	2.26	29	40	8.4	19.65
Max (µg/m3)	**45**	**90**	**9**	**32**	**3**	**51**	**90**	**13**	**14**	**1**	**54**	**96**	**10**	**49**	**6**	**86**	**88**	**12**	**25**	**3**	**59**	**95**	**13**	**68**
Min (µg/m3)	**18**	**46**	**7**	**5**	**1**	**7**	**17**	**4**	**6**	**0**	**13**	**15**	**7**	**8**	**1**	**9**	**9**	**8**	**9**	**0**	**9**	**10**	**5**	**16**
Average (µg/m3)	**30**	**75**	**7**	**14**	**1**	**15**	**51**	**8**	**10**	**1**	**34**	**60**	**8**	**28**	**3**	**26**	**49**	**10**	**16**	**1**	**29**	**57**	**8**	**30**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By
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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3
01-08-2024	NA	NA	NA	NA	NA	14	17	12.7	8.17	0.48	41	92	9.61	42.46	2.99	NA	45	10.2	10.74	2.09	23	34	5.77	16.35
02-08-2024	NA	NA	NA	NA	NA	10	12	12.7	8.8	0.44	37	74	9.25	41.28	2.73	NA	48	10.7	20.41	2.09	36	73	5.4	35.65
03-08-2024	NA	NA	NA	NA	NA	7	15	12.9	7.84	0.47	44	79	9.6	43.63	2.41	NA	23	10.93	13.67	2.04	23	78	4.9	37.88
04-08-2024	NA	NA	NA	NA	NA	7	20	12.9	8.2	0.56	34	69	9.02	31.6	2.86	NA	25	11.29	16.29	2.08	3	90	7.81	45.34
05-08-2024	NA	NA	NA	NA	NA	12	16	13.8	9.6	0.49	29	63	8.25	27.7	1.99	NA	24	11.44	13.81	1.09	2	82	6.71	42.93
06-08-2024	NA	NA	NA	NA	NA	11	39	13.1	10.85	0.46	30	67	8.27	31.29	2.78	NA	31	12.33	14.91	2.16	4	37	8.77	23.73
07-08-2024	NA	NA	NA	NA	NA	10	74	12.2	11.34	0.52	34	87	9	34.19	0.49	NA	75	11.6	14.78	2.36	30	39	5.68	23.07
08-08-2024	NA	NA	NA	NA	NA	13	73	12	11.19	0.59	21	49	8.8	16.97	0.27	NA	65	11.77	13.28	2.23	37	55	7.32	26.05
09-08-2024	NA	NA	NA	NA	NA	7	84	12.4	11.27	0.57	23	60	8.64	14.7	0.35	NA	93	12.04	14.14	1.86	33	73	7.52	26.3
10-08-2024	NA	NA	NA	NA	NA	8	95	11.9	12.18	0.51	26	65	9.26	21.44	0.94	NA	40	12.24	13.53	0.16	21	43	6.64	24.04
11-08-2024	NA	NA	NA	NA	NA	26	92	11.4	9.57	0.61	23	63	9.32	24.14	1.07	NA	29	12.1	16.03	0.03	22	49	5.84	24.84
12-08-2024	NA	NA	NA	NA	NA	23	89	11.1	12.66	0.53	17	44	8.88	17.79	1.04	NA	61	11.88	12.55	0.45	21	46	5.72	20.91
13-08-2024	NA	NA	NA	NA	NA	9	94	11.4	13.08	0.48	22	60	8.71	11.57	0.57	NA	83	12.35	14.44	0.93	27	70	6.54	21
14-08-2024	NA	NA	NA	NA	NA	17	58	13	10.26	0.55	18	45	9.1	7.28	0.4	40	84	12.48	12.12	2.55	30	78	6.76	23
15-08-2024	NA	NA	NA	NA	NA	18	94	11.9	10	0.64	17	47	8.68	7.87	0.39	29	87	11.34	11.22	2.73	31	90	8.19	25.87
16-08-2024	NA	NA	NA	NA	NA	14	93	11.4	11.8	0.55	20	58	9.72	8.73	0.52	20	56	12.37	14.65	2.03	37	95	8.9	24.1
17-08-2024	NA	NA	NA	NA	NA	20	86	11.5	11.67	0.59	19	56	9.35	7.95	0.46	31	86	12.99	13.93	1.51	32	79	7.72	24.13
18-08-2024	NA	NA	NA	NA	NA	17	81	12.7	12.84	0.82	16	37	8.82	7.53	0.71	29	83	13.27	12.83	2.84	24	58	6.09	20.98
19-08-2024	NA	NA	NA	NA	NA	12	82	11.8	18.26	1.13	19	41	9.9	5.94	0.85	26	76	13.07	12.89	2.22	13	52	6.31	20.75
20-08-2024	NA	NA	NA	NA	NA	9	68	12.4	17.73	0.87	19	32	8.89	10.45	0.77	13	28	13.23	13.56	1.27	8	39	7.25	20.09
21-08-2024	NA	NA	NA	NA	NA	15	63	12.8	14.1	0.76	18	37	5.06	7.64	0.59	20	56	11.72	11.55	1.29	19	52	8.09	22.2
22-08-2024	NA	NA	NA	NA	NA	24	70	11.4	15.67	0.49	19	46	7.43	13.44	0.72	14	36	10.14	10.94	0.96	25	58	6.55	25.75
23-08-2024	NA	NA	NA	NA	NA	18	78	6.73	16.84	0.52	11	38	6.39	6.53	0.93	8	11	10.71	9.52	0.94	13	38	7.81	20.88
24-08-2024	NA	NA	NA	NA	NA	5	68	6.77	14.02	0.7	25	58	6.7	15.63	1.09	24	55	10.74	10.62	1.12	2	21	6.54	24.8
25-08-2024	NA	NA	NA	NA	NA	8	8	7.67	9.29	0.55	43	79	7.07	26.88	1.79	29	68	10.9	22.67	1.21	14	61	6.59	25.61
26-08-2024	NA	NA	NA	NA	NA	8	9	6.75	9.07	0.51	46	93	7.12	31.98	2.86	13	25	11.22	14.26	0.94	11	40	6.16	19.75
27-08-2024	NA	NA	NA	NA	NA	8	10	5.25	8.3	0.44	32	70	6.68	19.96	2.24	9	13	10.9	9.94	0.93	45	79	7.49	62.96
28-08-2024	NA	NA	NA	NA	NA	8	21	6.95	9.33	0.44	27	65	6.71	15.79	1.54	9	17	10.99	10.94	0.94	40	81	7.28	52.57
29-08-2024	NA	NA	NA	NA	NA	9	76	8.18	11.53	0.49	27	75	6.67	12.98	0.76	32	24	11.12	11.21	0.96	50	82	7.37	59.24
30-08-2024	NA	NA	NA	NA	NA	11	91	9	12.52	0.56	19	54	6.63	15.91	1.52	14	32	11.21	8.72	1.94	11	36	6.61	28.45
31-08-2024	NA	NA	NA	NA	NA	22	79	8.92	13.99	0.56	21	54	6.86	18.32	0.68	27	61	11.69	9.35	2.11	21	30	7.02	22.11
Max (µg/m3)	**0**	**0**	**0**	**0**	**0**	**26**	**95**	**14**	**18**	**1**	**46**	**93**	**10**	**44**	**3**	**40**	**93**	**13**	**23**	**3**	**50**	**95**	**9**	**63**
Min (µg/m3)	**0**	**0**	**0**	**0**	**0**	**5**	**8**	**5**	**8**	**0**	**11**	**32**	**5**	**6**	**0**	**8**	**11**	**10**	**9**	**0**	**2**	**21**	**5**	**16**
Average (µg/m3)	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**13**	**60**	**11**	**12**	**1**	**26**	**60**	**8**	**19**	**1**	**21**	**50**	**12**	**13**	**2**	**23**	**59**	**7**	**29**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3
01-09-2024	NA	NA	NA	NA	NA	19.32	45.49	7.32	12.27	0.61	20.02	51.24	6.87	12.38	0.48	36.44	68.98	11.56	9.91	2.6	18.22	55.11	8.11	20
02-09-2024	NA	NA	NA	NA	NA	23.9	87.84	6.8	14.18	0.67	22.05	45.65	6.72	9.99	0.53	32.67	57.16	11.34	9.54	2.3	11.22	33.31	7.55	19.2
03-09-2024	NA	NA	NA	NA	NA	12.73	77.26	7.15	15.4	0.59	31.16	67.06	7.64	30.81	1.55	37.31	64.44	11.24	9.23	1.83	33.4	40.48	7.78	22.63
04-09-2024	NA	NA	NA	NA	NA	18.49	92.2	7.25	10.6	0.47	28.72	76.62	7.77	26.81	1.26	34.93	53.3	11.62	11.77	1.78	29.63	47.61	6.4	23.3
05-09-2024	NA	NA	NA	NA	NA	11.86	27.79	7.41	12.59	0.51	29.86	70.08	7.8	30.23	1.51	59.15	90.05	11.65	11	2.0	15.21	40.83	5.7	19.74
06-09-2024	NA	NA	NA	NA	NA	5.87	69.33	6.9	12.47	0.68	31.91	79.84	7.95	28.37	1.61	37.93	63.37	10.27	9.92	1.67	20.7	42.52	6.9	21.46
07-09-2024	NA	NA	NA	NA	NA	0.92	94.87	7.57	15.42	0.64	21.85	54.74	8.02	21.17	1.09	23.31	34.88	9.04	9.19	1.57	34.04	46.55	6.68	19.41
08-09-2024	NA	NA	NA	NA	NA	2.94	90.03	7.65	14.5	0.51	18.62	46.41	7.97	19.94	1.05	16.23	35.16	8.79	7.6	1.28	21.72	26.77	7.58	17.77
09-09-2024	NA	NA	NA	NA	NA	13.13	93.81	7.68	14.95	0.59	17.54	38.93	7.4	15.77	0.63	26.43	65.7	9.34	7.93	1.33	14.62	29.43	7.62	18.52
10-09-2024	NA	NA	NA	NA	NA	14.35	93.4	7.77	13.73	0.51	24.95	52.88	7.05	18.25	1.23	17.82	17.44	9.36	8.04	1.3	9.42	41.26	7.21	22.25
11-09-2024	NA	NA	NA	NA	NA	17.43	91.26	7.95	12.72	0.43	21.53	47.86	6.88	16.93	1.14	16.78	19.95	11.78	8.11	1.31	25.24	43.38	6.44	20.26
12-09-2024	NA	NA	NA	NA	NA	35.58	91.59	8.09	14.04	0.43	21.59	59.02	7.15	14.23	1.1	25.26	35.37	11.71	8.54	1.33	40.68	71.62	6.03	20.56
13-09-2024	NA	NA	NA	NA	NA	18.5	91.31	8.13	13.73	0.48	24.91	60.4	6.54	19.19	1.52	59.73	44.37	12.24	9.03	1.34	37.3	72.37	5.99	21.05
14-09-2024	NA	NA	NA	NA	NA	22.49	94.87	8.16	16.96	0.53	23.32	61.69	6.74	19.63	1.71	19.67	33.64	13.03	9.24	1.42	48.56	86.83	7.46	28.05
15-09-2024	NA	NA	NA	NA	NA	17.93	95.09	8.18	16.58	0.82	16.23	32.57	6.65	10.96	0.66	12.14	18.36	11.41	8.45	1.62	28.79	34.99	7.04	22.15
16-09-2024	NA	NA	NA	NA	NA	16.65	91.64	8.24	15.58	0.62	15.94	28.8	6.75	10.21	0.74	14.65	31.37	9.9	8	1.48	19.22	31.55	7.43	22.39
17-09-2024	NA	NA	NA	NA	NA	23.54	90.98	8.24	12.35	0.72	18.78	37.87	6.9	10.34	0.52	34.55	75.17	9.64	8.69	2.14	12.02	52.42	8.18	25.46
18-09-2024	NA	NA	NA	NA	NA	21.54	91.59	10.7	24.63	0.61	24.5	62.15	6.41	14.68	0.75	23.84	50.97	9.75	7.9	1.59	23.24	58.04	7.02	21.78
19-09-2024	NA	NA	NA	NA	NA	39.99	96.09	12.71	19.74	0.51	23.55	52.82	6.13	9.83	0.67	21.97	51.7	9.81	7.86	1.57	29.89	62.99	6.47	22.71
20-09-2024	NA	NA	NA	NA	NA	44.84	90.96	11.02	17.58	0.59	21.3	48.68	5.76	9.47	0.57	35.33	82.66	10.14	7.95	1.86	41.47	66.81	7.8	25.1
21-09-2024	NA	NA	NA	NA	NA	26.83	96.29	13.06	15.3	0.58	20.63	46.23	6.49	11.81	0.56	39.28	92.45	10.04	9.36	2.34	14.85	69.75	7.47	28.99
22-09-2024	NA	NA	NA	NA	NA	28.38	94.51	13.28	17.28	0.62	21.54	51.09	6.46	10.92	0.57	48.66	95.18	10.27	8.98	2.99	21.62	78.38	7.17	26.59
23-09-2024	NA	NA	NA	NA	NA	18.51	47.3	13.49	20.55	0.47	28.57	55.2	6.3	8.49	0.57	51.5	92.09	10.43	9.32	3.05	43.86	93.4	6.8	22.37
24-09-2024	NA	NA	NA	NA	NA	23.81	88.13	13.33	17.18	0.95	18.84	26.01	6.73	7.7	0.64	40.25	85.78	10.56	8.64	3.02	24.64	32.52	7.65	18.14
25-09-2024	NA	NA	NA	NA	NA	18.82	94.04	13.85	16.36	0.66	22.08	34.93	7.16	15.63	1.24	14.49	21.79	10.39	9.75	1.73	27.7	37.67	6.18	24.88
26-09-2024	NA	NA	NA	NA	NA	15.21	39.33	13.41	10.97	0.61	18.73	36.8	7.54	16.33	0.96	20.09	28.52	10.59	13.23	1.75	20.34	17.59	6.81	22.91
27-09-2024	NA	NA	NA	NA	NA	33.92	95.06	13.09	12.31	0.57	31.51	66.64	8.83	25.61	2.25	28.85	48.37	10.23	8.4	1.73	13.71	51.03	6.75	26.24
28-09-2024	NA	NA	NA	NA	NA	43.79	92.86	12.04	12	0.57	18.18	39.7	7.99	15.2	1.4	27.85	45.03	10.32	8.02	1.7	18.79	36.04	7.29	23.94
29-09-2024	NA	NA	NA	NA	NA	42.19	94.04	10.36	15.04	0.52	23.89	56.88	7.58	13.43	1.19	20.15	36.96	10.4	7.51	1.57	15.29	24.02	6.85	19.71
30-09-2024	NA	NA	NA	NA	NA	47.29	91.08	9.88	13.68	0.75	16.8	34.02	7.46	8.88	0.67	53.34	91.13	10.63	11.34	2.47	24.03	37.03	7.45	22.31
Max (µg/m3)	**0**	**0**	**0**	**0**	**0**	**47**	**96**	**14**	**25**	**1**	**32**	**80**	**9**	**31**	**2**	**60**	**95**	**13**	**13**	**3**	**49**	**93**	**8**	**29**
Min (µg/m3)	**0**	**0**	**0**	**0**	**0**	**1**	**28**	**7**	**11**	**0**	**16**	**26**	**6**	**8**	**0**	**12**	**17**	**9**	**8**	**1**	**9**	**18**	**6**	**18**
Average (µg/m3)	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**23**	**84**	**10**	**15**	**1**	**23**	**51**	**7**	**16**	**1**	**31**	**54**	**11**	**9**	**2**	**25**	**49**	**7**	**22**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

Annexure 5 B

Six Monthly Environment Monitoring Report from April to September 2024 for Plants under Phase 2

JSW Steel Limited

Dolvi Works:
Geetapuram,
Dolvi, Taluka - Pen,
Dist. Raigad - 402 107. Maharashtra, India.
CIN : L27102MH1994PLC152925
Phone : +91 2143 663000/3100/3200
Fax : +91 2143 277533/42
Website : www.jsw.in

BY COURIER

November 26, 2024

JSWSL/ENV/MOEF&CC/2024

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 April 2024 to September 2024.

Ref: 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 April 2024 to September 2024 for Integrated Steel Plant Phase II,Lime calcination plant 5,6,7,Hot Strip Mill Plant-II, Steel Melt Shop -II Blast Furnace Plant-II,Pellet plant -II 175 MW Captive Power Plant, Incineration plant.

This is for your information and record please.

Thanking You,

Yours Faithfully,
For JSW Steel Limited,

Satish Kumar Choudhary
General Manager(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
Integrated Steel Mill Complex Phase II
Geetapuram, Dolvi, Tal - Pen, Dist - Raigad

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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
I	**Lime Calcination Plant 5,6,7**						**Plant Capacity: 3600 TPD**					
1	Kiln -5 Stack	WHR System Kiln 5	62	1.4	Bag Filters	16/04/24 10:15 Hrs	402	14.60	19	14.0	18.0	21
						22/05/24 10:00 Hrs	398	12.50	17	11.0	15.0	19
						13/06/24 10:10 Hrs	514	14.20	19	14.0	16.0	22
						17/07/24 10:35 Hrs	530	12.00	17	16.0	21.0	18
						23/08/24 10:25 Hrs	367	12.00	20	16.0	21.0	18
						19/09/24 10:20 Hrs	470	12.50	19	12.0	15.0	20
2	Kiln -6 Stack	WHR System Kiln 6	62	1.4	Bag Filters	16/04/24 12:25 Hrs	530	13.20	21	10.0	15.0	17
						22/05/24 12:15 Hrs	424	14.00	20	12.0	17.0	22
						13/06/24 12:20 Hrs	529	12.60	23	10.0	14.0	17
						17/07/24 11:05 Hrs	575	14.00	24	15.0	19.0	22
						23/08/24 12:10 Hrs	545	14.00	23	15.0	19.0	22
						19/09/24 12:15 Hrs	417	14.00	23	13.0	17.0	19
3	Kiln -7 Stack	WHR System Kiln 7	62	1.4	Bag Filters	16/04/24 15:25 Hrs	524	12.40	25	11.0	16.0	14
						22/05/24 15:25 Hrs	414	11.00	22	10.0	18.0	24
						13/06/24 16:25 Hrs	476	13.20	26	12.0	17.0	23
						17/07/24 12:35 Hrs	582	15.00	21	10.0	16.0	20
						23/08/24 14:35 Hrs	575	15.00	18	10.0	16.0	20
						19/09/24 16:35Hrs	597	15.00	26	11.0	15.0	22
4	LDE-1 (Kiln discharge - product)	common for kiln 5,6,7	35	1.2	Bag Filters	18/04/24 10:35 Hrs	1297	3.80	12	NA	NA	NA
						15/05/24 10:25 Hrs	1398	4.2	10	NA	NA	NA
						04/06/24 10:25 Hrs	1067	4.8	12	NA	NA	NA
						17/07/24 15:05 Hrs	1687	5.1	15	NA	NA	NA
						18/08/24 10:25 Hrs	1389	5.1	13	NA	NA	NA
						20/09/24 10:05Hrs	1648	4.3	15	NA	NA	NA

Preapared By
Dr.P.P.Nandusekar
Manager (Environment)

Checked By
Satish kumar Choudhary
General Manager Environment

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

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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
5	LDE-2 (Kiln feed building - raw material)	common for kiln 5,6,7	37	1.75	Bag Filters	19/04/24 10:25 Hrs	1455	4.1	16	NA	NA	NA
						15/05/24 12:30 Hrs	1398	5.2	14	NA	NA	NA
						05/06/24 10:05 Hrs	1046	5	15	NA	NA	NA
						07/07/24 10:45 Hrs	1654	6.5	12	NA	NA	NA
						18/08/24 16:35 Hrs	1389	6.5	16	NA	NA	NA
						21/09/24 14:35Hrs	1435	3.8	16	NA	NA	NA
6	LDE-3 (Junction house - raw material)	common for kiln 5,6,7	30	0.65	Bag Filters	18/04/24 12:05 Hrs	1297	5.10	11	NA	NA	NA
						15/05/24 15:25 Hrs	1398	4.80	15	NA	NA	NA
						04/06/24 12:05 Hrs	1067	3.90	14	NA	NA	NA
						07/07/24 12:15 Hrs	6154	5.50	16	NA	NA	NA
						18/08/24 12:05 Hrs	1389	5.50	14	NA	NA	NA
						21/09/24 10:15Hrs	1435	4.40	12	NA	NA	NA
7	LDE-4 (Product storage building)	common for kiln 5,6,7	35	1.35	Bag Filters	18/04/24 16:15 Hrs	1297	4.90	15	NA	NA	NA
						16/05/24 10:25 Hrs	1214	3.40	11	NA	NA	NA
						04/06/24 14:35 Hrs	1067	4.60	10	NA	NA	NA
						17/07/24 16:25 Hrs	1687	5.80	14	NA	NA	NA
						18/08/24 14:25 Hrs	1389	5.80	11	NA	NA	NA
						20/09/24 12:00Hrs	1648	4.60	18	NA	NA	NA
8	LDE-5 (Raw material storage building)	common for kiln 5,6,7	33	1.04	Bag Filters	19/04/24 14:45 Hrs	1455	5.20	14	NA	NA	NA
						16/05/24 12:00 Hrs	1214	6.00	10	NA	NA	NA
						05/06/24 12:15 Hrs	1046	5.20	13	NA	NA	NA
						07/07/24 14:25 Hrs	1654	4.90	10	NA	NA	NA
						23/08/24 15:15 Hrs	1487	4.90	12	NA	NA	NA
						21/09/24 16:25Hrs	1435	5.10	14	NA	NA	NA
							Norms		50	400	500	

Preapared By
Dr.P.P.Nandusekar
Manager (Environment)

Checked By
Satish kumar Choudhary
General Manager Environment

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

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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
II	**Pellet Plant II**											
1	Process ESP Stack	Process ESP	100	9.7	Electrostatic Precipitators	25/04/24 14:15 Hrs	20635	16.5	28	14.0	17.0	25.0
						24/05/24 11:05 Hrs	17845	20.0	27	18.0	21.0	28.0
						26/06/24 10:25 Hrs	20010	24.5	28	16.0	24.0	32.0
						19/07/24 10:25 Hrs	20865	22.5	24	18.0	26.0	28.0
						19/08/24 11:05 Hrs	20783	22.5	26	18.0	26.0	28.0
						22/09/24 10:35Hrs	21152	27.0	28	20.0	28.0	32.0
2	De Dusting ESP Stack	De Dusting ESP	50	2.6	Electrostatic Precipitators	25/04/24 16:20 Hrs	20635	13.6	15	10.0	15.0	19.0
						24/05/24 14:25 Hrs	17845	12.5	14	12.0	16.0	21.0
						26/06/24 12:00 Hrs	20010	15.6	16	14.0	18.0	25.0
						19/07/24 12:30 Hrs	20865	13.4	15	15.0	16.0	21.0
						19/08/24 14:25 Hrs	20783	13.4	10	15.0	16.0	21.0
						22/09/24 12:38Hrs	21152	13.8	13	14.0	17.0	23.0
3	Storage Bin Stack	Pellet Storage Bin	45	2.2	Bag Filters	23/04/24 17:00 Hrs	15672	5.2	18	NA	NA	NA
						24/05/24 16:35 Hrs	17845	6.0	16	NA	NA	NA
						26/06/24 15:35 Hrs	20010	5.6	14	NA	NA	NA
						19/07/24 15:22 Hrs	20865	6.5	10	NA	NA	NA
						19/08/24 16:35 Hrs	20783	6.5	13	NA	NA	NA
						22/09/24 16:25Hrs	21152	6.2	16	NA	NA	NA
	*NA-Not Applicable						Norms		50.0	500	500	
III	**SMS -2**						**Plant Capacity: 6.0 MTPA**					
1	Secondary De-Dusting Stack	Secondary De System	98.5	8	Bag Filters	16/04/24 10:00 Hrs	13510.0	24.5	25	15.0	17.0	23.0
						16/05/24 16:25 Hrs	12931.0	26.0	26	18.0	21.0	25.0
						03/06/24 11:25 Hrs	8397.0	28.6	24	16.0	19.0	27.0
						20/07/24 16:10 Hrs	15001	23.5	26	14.0	21.0	29.0
						22/08/24 11:25 Hrs	15254	23.5	22	14.0	21.0	29.0
						21/09/24 15:25Hrs	14777	24.0	19	16.0	20.0	25.0
	*NA-Not Applicable						Norms		50.0	500.0	500	

Preapared By
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Manager (Environment)

Checked By
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General Manager Environment

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

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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
IV	**HSM Plant-2**						**Plant Capacity: 5.0 MTPA**					
1	Reheating Furnace Stack -1	Reheating Furnace	82	3.98	blower	16/04/24 12:20 Hrs	12825	15.8	8	15	19	24
						27/05/24 11:05 Hrs	12540	18	9	16	21	28
						19/06/24 10:20 Hrs	13805	14.8	9	16	21	28
						22/07/24 10:30 Hrs	13818	15.6	10	16	21	28
						20/08/24 10:15 Hrs	13067	15.6	9	16	21	28
						17/09/24 10:40Hrs	12658	13	13	16	21	28
2	Reheating Furnace Stack -2	Reheating Furnace	82	3.98	blower	16/04/24 14:25 Hrs	12825	13.2	9	13	16	22
						27/05/24 14:15 Hrs	12540	16	8	14	19	26
						19/06/24 12:45 Hrs	13805	16.2	6	14	19	26
						22/07/24 12:20 Hrs	13818	16.9	9	14	19	26
						20/08/24 12:45 Hrs	13067	16.9	10	14	19	26
						17/09/24 12:45Hrs	12658	14	11	12	16	22
3	Fume Exhaust Stack	Fume Exhaust	30.5	2.55	blower	16/04/24 16:35 Hrs	12825	6.10	9	11.0	14.0	18.0
						27/05/24 16:35 Hrs	12540	5.80	6	10.0	16.0	20.0
						19/06/24 14:45 Hrs	13805	4.80	12	10.0	16.0	20.0
						22/07/24 15:30 Hrs	13818	5.90	10	10.0	16.0	20.0
						20/08/24 16:05 Hrs	13067	5.90	10	10.0	16.0	20.0
						17/09/24 16:35Hrs	12658	6.20	11	15.0	18.0	23.0
	*NA-Not Applicable						Norms		50.0	500.0	500	
V	**Blast Furnace Plant (II)**							**Plant Capacity: 2.8 MTPA**				
1	Cast House Dedusting System	Cast House	71	6.4	Bag Filters	17/04/24 10:25 Hrs	14463	28.0	19	NA	NA	NA
						05/05/24 10:35 Hrs	14282	26.0	21	NA	NA	NA
						15/06/24 14:25 Hrs	14021	25.8	26	NA	NA	NA
						24/07/24 10:45 Hrs	14053	20.0	28	NA	NA	NA
						23/08/24 11:25 Hrs	13964	20.0	26	NA	NA	NA
						15/09/24 10:35Hrs	14136	18.0	28	NA	NA	NA

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Checked By
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General Manager Environment

JSW STEEL LIMITED
Integrated Steel Mill Complex Phase II
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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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
2	Stock House De System Stack-1	Stock House	71	6.25	Bag Filters	18/04/24 10:05 Hrs	14256	32.0	24	NA	NA	NA
						05/05/24 14:05 Hrs	14282	28.0	26	NA	NA	NA
						17/06/24 11:15 Hrs	14276	32.0	21	NA	NA	NA
						23/07/24 12:30 Hrs	14021	26.0	26	NA	NA	NA
						01/08/24 11:15 Hrs	14145	26.0	21	NA	NA	NA
						18/09/24 10:25Hrs	14077	19.0	20	NA	NA	NA
3	Stock House De System Stack-2	Stock House	45	2.7	Bag Filters	18/04/24 14:25 Hrs	14256	6.8	19	NA	NA	NA
						08/05/24 10:15 Hrs	14271	7.2	17	NA	NA	NA
						17/06/24 14:25 Hrs	14276	6.9	19	NA	NA	NA
						23/07/24 12:30 Hrs	14021	7.2	15	NA	NA	NA
						01/08/24 14:45 Hrs	14145	7.2	16	NA	NA	NA
						18/09/24 12:00Hrs	14077	10.0	18	NA	NA	NA
4	Stock House De System Stack-3	Stock House	45	1.35	Bag Filters	18/04/24 16:25 Hrs	14256	5.8	17	NA	NA	NA
						08/05/24 12:05 Hrs	14271	5.2	15	NA	NA	NA
						17/06/24 16:40 Hrs	14276	6.2	16	NA	NA	NA
						23/07/24 12:30 Hrs	14021	6.8	13	NA	NA	NA
						01/08/24 16:25 Hrs	14145	6.8	13	NA	NA	NA
						18/09/24 15:15Hrs	14077	6.5	16	NA	NA	NA
5	Coal Injection Stack	Coal Grinding Unit	72.5	2.8	Bag Filters	17/04/24 12:15 Hrs	14463	7.9	19	NA	NA	NA
						08/05/24 15:25 Hrs	14271	7.1	24	NA	NA	NA
						15/06/24 10:35 Hrs	14021	7.5	24	NA	NA	NA
						24/07/24 12:15 Hrs	14053	7.1	20	NA	NA	NA
						22/08/24 11:15 Hrs	13811	7.1	14	NA	NA	NA
						15/09/24 12:45Hrs	14136	6.8	13	NA	NA	NA
6	Pig Iron Granulation Stack	Pig Iron Granulation	35	1	Bag Filters	17/04/24 15:05 Hrs	14463	3.8	10	NA	NA	NA
						08/05/24 16:45 Hrs	14271	4.5	10	NA	NA	NA
						15/06/24 12:15 Hrs	14021	5.5	9	NA	NA	NA
						24/07/24 14:45 Hrs	14053	6.5	10	NA	NA	NA
						22/08/24 14:25 Hrs	13811	6.5	8	NA	NA	NA

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General Manager Environment

JSW STEEL LIMITED
Integrated Steel Mill Complex Phase II
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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 (Ton/TPD/KWh)	Velocity m/sec	Parameters mg/Nm^3 as per MPCB Consent			
									Particulate Matter (PM)	SO_2	NOx	CO
						15/09/24 16:25Hrs	14136	5.5	10	NA	NA	NA
							Norms		50.00			
7	Stove stack	Stove Unit	80	4.28		17/04/24 16:55 Hrs	14463	21	10	16.0	19.0	27.0
						05/05/24 16:00 Hrs	14282	22	9	18.0	21.0	28.0
						16/06/24 15:25 Hrs	14160	23.5	8	16.0	19.0	33.0
						24/07/24 16:35 Hrs	14053	21	12	18.0	22.0	38.0
						22/08/24 16:05 Hrs	13811	21	7	18.0	22.0	38.0
						14/09/24 16:45Hrs	14126	15	12	16.0	20.0	32.0
							Norms		30.00	250.00	200.00	
VI	**175 MW CPP**											
1	Boiler Stack	Boiler	58	4.75	Blower	27/04/24 16:15 Hrs	1056	15.6	3	12.0	17.0	21.0
						11/05/24 11:40 Hrs	824	14.0	3	15.0	19.0	28.0
						20/06/24 16:05 Hrs	780	14.0	2	15.0	19.0	28.0
						18/07/24 11:45 Hrs	993	15.0	2	15.0	19.0	28.0
						23/08/24 10:25 Hrs	1039	15.0	6	15.0	19.0	28.0
						14/09/24 114:15Hrs	1142	15.0	10	16.0	18.0	31.0
	*NA-Not Applicable						Norms		50.0	NA	NA	
Incinerator Plant												
1	Incinerator Stack		29.5	0.4		27/04/24 14:25 Hrs	3051	6.2	14	NA	NA	NA
						11/05/24 14:20 Hrs	3077	5.5	16	NA	NA	NA
						27/06/24 10:45 Hrs	3999	5.4	17	NA	NA	NA
						18/07/24 15:25 Hrs	3659	6.2	13	NA	NA	NA
						23/08/24 12:35 Hrs	3984	6.2	17	NA	NA	NA
						14/09/24 11:25Hrs	3974	7.0	15	NA	NA	NA
							Norms		50.0	300.0	400	

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General Manager Environment

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
01-04-2024	14	38	6.04	10.08	0.83	31	88	6.54	34.25	0.87	18	17	5.47	28.74	0.52	31	73	5.53	9.63	0.21	46	93	5.65	18.5	0.66
02-04-2024	11	21	6.13	8.12	0.71	28	85	6.24	22.64	0.7	17	18	5.59	30.72	0.57	19	56	4.65	9.79	0..36	54	79	5.05	19.02	0.6
03-04-2024	11	15	6.2	6.93	0.73	26	62	6	17.1	0.71	45	90	5.73	21.99	0.68	16	58	5.22	9.47	0.48	59	85	5.11	14.32	0.6
04-04-2024	19	29	6.22	8.95	0.77	23	91	6.06	24.16	0.59	48	88	5.53	30.25	0.62	19	57	4.83	9.9	1.21	42	92	5.37	15.07	0.59
05-04-2024	11	25	6.15	9.26	0.76	35	86	6.02	33.75	0.95	41	82	5.88	24.5	0.46	21	73	4.66	9.84	0.57	39	91	5.31	14.26	0.59
06-04-2024	46	95	6.13	9.27	0.85	42	87	5.98	29.99	0.82	56	83	6.00	25.47	0.49	29	93	5.38	9.91	0.89	29	87	5.32	16.18	0.58
07-04-2024	58	93	6.13	9.35	0.87	47	81	5.99	29.2	0.73	34	74	5.92	23.17	0.39	26	78	4.82	9.7	1.02	24	60	5.25	15.98	0.62
08-04-2024	33	90	6.21	8.45	0.82	29	81	5.96	21.96	0.83	31	86	6.29	24.36	0.45	20	64	4.94	9.57	0.86	34	88	5.26	15.81	0.58
09-04-2024	26	58	6.22	7.69	0.77	25	76	6.05	21.42	0.82	35	81	5.72	16.37	0.52	18	47	5.19	9.63	0.74	41	73	5.15	12.37	0.54
10-04-2024	21	44	6.05	7.63	0.7	17	62	6.1	13.71	0.6	26	67	5.34	13.3	0.46	18	53	5.54	10.66	1.68	35	58	5.59	19.15	0.46
11-04-2024	18	35	5.98	8.12	0.95	19	57	6.06	18.36	0.81	26	67	5.84	17.96	0.7	18	46	5.24	9.71	1.23	35	73	7.37	63.42	0.6
12-04-2024	17	34	6.04	7.01	0.72	14	45	5.76	19.62	0.57	30	72	5.18	19.96	0.71	42	61	5.9	10.28	0.97	37	60	7.71	70.06	0.71
13-04-2024	19	41	6.03	7.73	0.74	21	72	5.53	21.93	0.53	31	75	5.62	30.08	0.66	11	47	4.67	10.14	1.14	35	59	7.33	67.71	0.62
14-04-2024	25	63	6.11	7.95	0.77	54	95	6.28	23.45	0.49	23	54	5.14	15.68	0.5	20	48	4.91	10.61	1.21	23	52	7.68	61.52	0.55
15-04-2024	43	87	6.16	14.12	0.92	59	99	6.44	26.32	0.76	34	77	5.59	15.91	0.83	28	70	5.69	9.93	0.82	39	66	7.78	54.57	0.73
16-04-2024	44	96	6.14	7.51	0.96	55	96	3.13	20.97	0.75	51	93	5.73	25.39	1.59	18	46	5.68	9.18	1.53	58	94	8.01	23.66	0.84
17-04-2024	28	53	6.04	5.32	0.8	42	87	3	10.91	0.53	37	89	5.79	15.81	1.48	19	42	5.65	9.26	1.37	50	84	7.51	18.16	0.85
18-04-2024	26	49	6.23	6.17	0.84	32	50	6.39	12.15	0.62	36	81	6.59	10.48	1.02	16	50	5.37	10.06	1.05	45	85	7.25	17.27	0.59
19-04-2024	33	73	6.43	6.31	1.03	52	85	8.24	14.19	0.68	34	78	6.44	10.11	0.89	15	47	5.28	9.61	1.31	34	78	7.27	17.24	0.61
20-04-2024	33	79	6.24	7.1	0.84	32	81	7.39	13.79	0.64	30	90	6.78	11.23	0.94	15	60	4.98	9.77	1.73	43	98	7.74	20.19	0.58
21-04-2024	31	82	6.2	6.31	0.86	41	93	5.59	29.27	0.94	26	65	6.35	7.29	0.72	17	65	5.09	9.98	1.06	37	89	7.34	18.69	0.68
22-04-2024	30	82	6.29	7.14	0.87	21	99	5.66	31.12	0.87	24	56	5.96	11.22	0.71	40	76	5.54	10.24	0.57	25	66	7.77	21.68	0.6
23-04-2024	36	94	6.3	7.79	0.87	10	76	6.07	26.82	0.78	25	69	6.09	13.12	0.72	33	60	4.87	10.05	0.92	22	83	7.72	18.97	0.57
24-04-2024	34	84	6.32	7.12	0.88	11	83	6.26	20.87	0.77	33	86	6.76	17.31	0.76	21	57	4.75	10.39	1.29	39	98	7.2	21.97	0.66
25-04-2024	29	67	6.35	5.9	0.86	31	72	5.95	17.82	0.79	31	92	6.94	13.08	0.76	18	55	4.62	10.53	1.24	41	95	7.57	18.04	0.57
26-04-2024	40	68	7.81	10.49	0.97	39	97	9.51	30.39	0.86	28	74	6.01	19.22	0.8	23	62	4.46	13.91	1.79	29	77	7.64	22.37	0.6
27-04-2024	31	70	7.21	8.69	1.11	39	90	5.91	19.1	0.86	35	90	5.61	11.02	0.79	29	83	4.5	9.78	1.24	45	90	7.93	19.36	0.55
28-04-2024	50	85	7.12	9.01	1.19	51	87	6.17	26.85	0.8	46	95	5.88	15.44	0.87	37	86	4.65	9.94	1.03	55	94	7.98	21.4	0.66
29-04-2024	41	99	7.11	9.27	1.26	54	91	6.22	39.55	0.79	44	93	5.83	33.15	0.84	35	90	4.52	11.42	0.57	43	96	7.91	24.17	0.62
30-04-2024	45	83	7.17	9.36	1.19	39	96	6.7	34.11	0.88	42	98	5.81	31.93	0.85	34	94	4.63	11.15	1.05	42	95	7.57	22.37	0.6

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

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Checked By
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General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-05-2024	29	70	7.18	6.65	1	29	71	5.73	20.91	0.59	19	69	5.18	16.48	0.78	22	68	4.58	12.27	1.97	36	77	7.51	20.67	0.52
02-05-2024	40	91	8.27	7.27	1.98	31	95	7.38	22.69	0.82	31	90	4.98	18.35	0.96	15	48	4.67	11.11	1.16	38	91	7.23	17.18	0.64
03-05-2024	31	74	7.58	8.4	1.05	35	72	4.24	25.34	0.77	29	92	4.83	18.1	0.97	19	58	4.85	11.11	1.42	41	97	7.31	18.53	0.65
04-05-2024	27	63	7.39	6.83	0.98	45	88	6.49	19.34	0.69	24	61	6.03	10.07	0.82	19	62	4.85	11.74	1.18	33	64	7.66	17.87	0.56
05-05-2024	33	85	7.46	6.88	1.05	19	48	5.77	11.35	0.77	23	54	5.73	9.28	0.87	15	50	5.28	12.16	2.05	32	57	7	17.59	0.56
06-05-2024	16	37	7.33	6.1	0.96	14	73	7.08	13.27	0.74	18	50	5.82	8.89	0.72	13	38	4.92	13.24	1.39	26	52	7.58	18.49	0.5
07-05-2024	42	90	7.55	6.94	1.28	19	87	6.16	17.55	0.76	22	72	5.79	15.52	1.09	11	26	4.78	11.41	1.17	16	57	7.44	16.27	0.46
08-05-2024	26	67	7.49	6	0.98	13	59	6.08	13.31	0.71	18	57	5.2	10.98	0.89	13	36	4.81	13.19	1.42	23	58	7.29	14.74	0.44
09-05-2024	16	37	7.26	5.53	0.94	13	33	6.09	11.8	0.67	17	44	5.05	15.64	0.74	20	36	4.88	9.94	1.14	27	45	7.78	15.99	0.51
10-05-2024	17	42	7.16	5.29	0.97	11	33	6.36	11.76	0.61	17	44	5.48	16.21	0.69	22	71	5.18	11.43	1.3	26	47	8.06	15.13	0.46
11-05-2024	28	69	7.22	9.65	1.05	19	80	5.76	16.66	0.62	21	59	5.72	10.7	0.75	23	72	5.29	15.34	2.13	32	81	7.5	17.64	0.52
12-05-2024	19	44	7.25	7.82	1	17	52	6.05	13.56	0.64	21	54	5.73	6.21	0.74	26	66	5.14	10.87	2.09	22	72	7.35	14.86	0.46
13-05-2024	45	88	7.22	9.35	1.36	28	81	6.16	17.53	0.82	27	82	5.32	7.75	0.86	30	79	5.73	9.88	1.46	25	72	7.5	16.84	0.56
14-05-2024	38	96	7.25	9.39	1.4	33	71	5.99	40.62	0.98	43	95	5.52	11.75	1.07	32	85	5.93	10.87	1.67	42	87	8.37	20.28	0.74
15-05-2024	44	69	7.5	9.94	1.55	31	89	6.16	29.16	0.83	39	87	5.64	12.87	1.2	21	47	5.47	9.96	0.97	48	88	8.74	21.43	0.8
16-05-2024	43	88	7.53	16.79	1.31	30	70	6.01	16.08	0.9	29	67	5.55	8.17	0.77	NA	NA	5.06	9.82	1.11	56	77	6.79	17.59	0.61
17-05-2024	21	37	7.75	14.71	1.64	27	88	6.4	23.41	1.09	32	76	6.08	10.56	1.02	39	82	5.13	9.63	1.06	29	65	7.57	20.31	0.74
18-05-2024	34	74	7.41	11.55	1.05	20	62	5.96	12.34	0.68	26	62	6.07	10.01	0.89	36	58	5.29	9.79	0.93	36	61	7.71	15.22	0.5
19-05-2024	56	89	7.31	9.49	1.01	16	49	6.06	7.38	0.62	25	72	6.05	15.35	0.93	47	64	5.65	9.27	0.68	38	68	7.85	14.25	0.51
20-05-2024	54	90	7.62	8.83	1.17	17	92	6.22	9.72	0.66	29	62	6.15	19.71	1.38	21	58	5.34	10.03	0.83	40	74	7.26	15.91	0.64
21-05-2024	20	52	7.26	8.16	0.96	17	66	6.13	11.74	0.63	37	93	6.59	25.69	0.91	28	64	5.2	11.32	0.88	37	68	7.62	14.62	0.45
22-05-2024	33	81	7.64	9.12	0.78	20	86	6.01	12.09	0.57	34	80	6.2	16.15	1.13	46	66	5.47	10.1	0.8	38	72	7.29	14.36	0.48
23-05-2024	22	53	8.41	8.77	0.43	13	84	5.93	10.29	0.46	30	74	6.28	13.84	0.99	21	66	5.31	10.36	0.86	42	89	6.77	14.85	0.45
24-05-2024	37	90	8.59	7.74	0.47	14	81	6.04	10.05	0.59	27	71	6.47	12.94	0.82	20	70	5.42	10.63	0.91	38	77	5.96	14.75	0.43
25-05-2024	50	70	8.48	7.18	0.34	15	88	6.15	8.49	0.67	30	68	6.2	16.1	0.88	19	67	7.14	12.06	1.22	35	88	6.95	14.18	0.42
26-05-2024	16	29	8.46	6.66	0.33	10	27	5.83	7.71	0.48	31	77	6.49	14.13	0.98	20	86	8.78	10.59	1.17	20	86	7.48	12.43	0.41
27-05-2024	20	50	8.43	6.39	0.34	15	34	6.09	6.94	0.57	41	85	7.44	24.06	1.43	12	46	8.19	19.85	0.78	51	83	6.8	13.58	0.45
28-05-2024	15	34	8.53	6.3	0.31	20	40	5.93	7.29	0.52	42	91	7.42	17.69	1.17	15	66	5.79	11.45	1.27	54	89	7.12	13.82	0.46
29-05-2024	31	89	8.77	6.65	0.49	48	90	5.98	7.15	0.54	41	94	7.08	17.65	1.53	13	50	5.86	10.12	0.84	49	95	7.27	14.59	0.46
30-05-2024	56	75	7.63	8.98	0.8	56	79	6.09	8.35	0.62	30	75	6.65	16.75	0.88	21	94	5.8	10.35	1.07	47	97	6.5	13.91	0.45
31-05-2024	23	63	5.91	9.75	0.64	56	64	6.05	9.15	0.66	25	64	6.34	11.84	0.73	19	78	6.41	11.33	1.68	15	62	7.77	14.7	0.41
Max (µg/m3)	**56**	**96**	**9**	**17**	**2**	**56**	**95**	**7**	**41**	**1**	**43**	**95**	**7**	**26**	**1.53**	**47**	**94**	**9**	**20**	**2**	**56**	**97**	**9**	**21**	**1**
Min (µg/m3)	**15**	**29**	**6**	**5**	**0**	**10**	**27**	**4**	**7**	**0**	**17**	**44**	**5**	**6**	**0.69**	**11**	**26**	**5**	**9**	**1**	**15**	**45**	**6**	**12**	**0**
98%tile(µg/m3)	**56**	**93**	**9**	**16**	**2**	**56**	**93**	**7**	**34**	**1**	**42**	**94**	**7**	**25**	**1.47**	**46**	**89**	**8**	**17**	**2**	**55**	**97**	**9**	**21**	**1**
Standards	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**

Prepared By
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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-06-2024	12	29	5.72	8.75	0.46	27	45	6.19	20.62	0.68	19	53	6.52	12.07	0.82	17	59	6.52	10.44	1.58	20	86	6.55	13.87	0.44
02-06-2024	28	35	5.83	8.66	0.54	44	99	6.11	19.14	0.67	21	53	7.04	11.04	0.71	18	70	6.21	50.38	1.43	19	59	6.93	12.78	0.41
03-06-2024	39	38	6.23	12.87	1.24	59	65	6.13	16.33	0.76	26	57	7.48	12.07	0.77	13	40	6.38	24.53	1.52	28	58	8.04	16.55	0.52
04-06-2024	46	53	6.28	27.08	0.73	44	41	6	24.65	0.73	26	67	7.23	22.08	0.8	28	81	6.54	31.41	1.37	36	80	6.99	20.96	0.47
05-06-2024	27	40	6.39	16.91	1.05	39	89	6	16.81	0.61	25	68	6.88	17.75	2.69	18	65	5.9	32.15	1.04	29	60	7.64	16.28	0.47
06-06-2024	57	50	6.85	18.57	1.61	56	79	5.96	13.23	0.48	25	57	6.89	9.7	0.67	17	66	5.55	16.74	1.05	27	49	7.59	15.4	0.4
07-06-2024	20	51	6.13	13.05	0.5	38	68	6.08	13.15	0.75	30	74	7	13.97	0.67	21	97	5.07	11.93	0.7	37	79	7.64	16.7	0.42
08-06-2024	55	54	6.33	14.37	1.35	44	96	5.98	16.95	1	25	54	7.22	11.36	0.67	19	62	5.41	11.32	1.11	24	51	7.79	16.19	0.44
09-06-2024	57	53	6.54	11.29	1.89	55	64	5.87	12.26	0.82	22	46	7.25	11.75	1.05	15	20	5.51	13.92	0.58	26	40	9.02	14.97	0.6
10-06-2024	20	60	6.33	1.26	0.78	26	43	5.96	9.36	0.83	21	43	6.9	15.14	0.89	11	21	5.9	12.11	0.55	18	34	7.85	14.62	0.46
11-06-2024	42	54	6.51	5.98	1.1	39	89	5.91	9.58	0.81	23	49	6.78	14.73	1.62	11	15	6.29	18.31	0.51	13	43	6.14	15.16	0.52
12-06-2024	48	54	7.03	17.69	1.46	51	74	6.24	14.81	0.58	30	72	7.11	20.91	2.02	13	35	6.6	12.36	0.48	18	44	7.99	15.59	0.54
13-06-2024	NA	44	7.59	19.07	1.75	60	60	6.34	15.9	0.7	12	35	7.06	7.93	0.66	12	19	6.94	12.67	0.58	9	26	7.95	14.6	0.55
14-06-2024	NA	39	7.5	21.08	1.95	49	96	5.11	13.61	0.54	14	30	7.17	9	0.92	12	16	7.25	11.52	0.58	4	22	7.78	13.81	0.44
15-06-2024	58	59	7.1	20.15	2.01	50	59	5.52	14.85	0.53	32	80	8.17	9.35	0.82	14	28	7.5	11.8	0.58	6	26	7.57	13.12	0.46
16-06-2024	49	44	7	16.67	1.69	52	59	6.22	10.48	0.63	38	85	7.69	15.96	1.51	13	20	7.89	10.72	0.62	19	51	8.24	12.9	0.51
17-06-2024	25	88	7.73	18.83	1.59	42	69	6	12.02	0.69	23	61	7.6	13.24	1.07	14	34	8.42	10.6	0.7	39	67	6.28	14.5	0.49
18-06-2024	36	75	7.04	17.16	1.61	34	88	6.09	9.03	0.66	33	94	7.36	15.45	1.24	17	50	8.79	10.36	0.87	43	72	6.88	16.9	0.84
19-06-2024	51	68	6.91	19.67	2.03	42	75	6.13	9.48	0.57	45	75	7.41	15.05	1.36	13	28	9.06	10.41	0.77	46	68	7.38	16.22	0.77
20-06-2024	39	88	8.69	22	1.88	32	81	6.21	7.58	0.58	19	54	7.73	12.57	1.14	15	17	9.81	12.91	0.72	40	57	8.25	15.65	0.74
21-06-2024	40	63	7.84	21.21	1.54	20	92	6.23	6.92	0.74	22	53	7.92	21.25	1.78	6	35	10.45	12.83	0.96	58	96	7.61	17.62	0.88
22-06-2024	56	90	12.6	49.92	0.93	29	79	6.14	8.6	0.85	22	41	7.65	11.42	0.75	NA	30	10.74	12.7	0.96	24	51	8.34	15.17	0.53
23-06-2024	NA	NA	NA	NA	NA	31	57	6.38	8.8	0.5	32	83	7.77	14.49	1.43	NA	54	11.24	12.63	0.86	25	77	7.06	14.44	0.49
24-06-2024	NA	NA	NA	NA	NA	52	95	6.09	9.3	0.6	27	67	7.62	13.13	1.16	NA	64	11.3	13.65	0.86	19	34	7.79	13.15	0.39
25-06-2024	NA	NA	NA	NA	NA	54	75	6.06	11.51	0.63	24	71	7.49	6.75	0.5	NA	83	11.59	11.64	0.88	29	38	6.88	12.62	0.39
26-06-2024	NA	NA	NA	NA	NA	28	68	5.96	11.84	0.61	28	64	7.96	11.35	0.77	NA	21	11.49	12.16	0.89	38	54	6.81	15.7	0.88
27-06-2024	NA	NA	NA	NA	NA	45	43	6.12	10.78	0.51	23	42	7.49	10.02	0.67	NA	NA	NA	NA	NA	25	35	8.29	14.48	1.03
28-06-2024	NA	NA	NA	NA	NA	28	83	6.22	9.76	0.54	22	38	7.24	11.41	0.6	NA	NA	NA	NA	NA	27	50	6.96	15.02	1.07
29-06-2024	NA	NA	NA	NA	NA	47	90	6.12	11.75	0.66	27	59	7.16	14.44	0.73	NA	NA	NA	NA	NA	53	88	8.43	17.4	1.29
30-06-2024	NA	NA	NA	NA	NA	46	55	5.97	9.89	0.6	26	76	7.29	17.94	1.54	NA	NA	NA	NA	NA	43	55	8.04	21.43	1.95
Max (µg/m3)	**58**	**90**	**13**	**50**	**2**	**60**	**99**	**6**	**25**	**1**	**45**	**94**	**8**	**22**	**2.69**	**28**	**97**	**12**	**50**	**2**	**58**	**96**	**9**	**21**	**2**
Min (µg/m3)	**12**	**29**	**6**	**1**	**0**	**20**	**41**	**5**	**7**	**0**	**12**	**30**	**7**	**7**	**0.50**	**6**	**15**	**5**	**10**	**0**	**4**	**22**	**6**	**13**	**0**
98%tile(µg/m3)	**57**	**89**	**11**	**40**	**2**	**59**	**97**	**6**	**22**	**1**	**41**	**88**	**8**	**22**	**2.30**	**25**	**90**	**12**	**41**	**2**	**55**	**91**	**9**	**21**	**2**
Standards	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**	**60**	**100**	**80**	**80**	**2**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By
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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-07-2024	NA	NA	6.78	5.00	1.73	17	24	6.48	8.01	0.49	27	79	6.94	14.89	1.2	NA	NA	NA	NA	NA	41	83	8.42	42.69	3.35
02-07-2024	23	90	6.6	16.41	1.27	9	78	6.21	8.84	0.52	41	96	7.66	39.79	2.64	NA	NA	NA	NA	NA	59	80	8.97	56.75	1.36
03-07-2024	22	84	6.8	15.45	1.09	10	32	6.35	10.03	0.48	37	95	7.73	26.99	2.44	NA	NA	NA	NA	NA	53	87	7.51	68.3	2.54
04-07-2024	28	46	6.73	11.57	0.93	12	22	5.79	9.25	0.6	41	84	7.8	34	4.3	NA	NA	NA	NA	NA	41	72	7.78	49.6	1.4
05-07-2024	45	87	7.01	5.69	0.87	11	19	6.29	10.33	0.6	41	76	8.31	30.38	3.15	14	42	10.32	15.06	2.15	50	86	9.36	57.77	2.04
06-07-2024	18	50	7.43	11.89	0.8	7	17	6.11	8.09	0.58	51	78	8.13	43.77	5.31	86	77	11.36	21.79	1.48	32	95	7.75	42.3	1
07-07-2024	40	83	7.85	15.33	0.99	10	19	4.08	9.63	0.62	44	78	8.18	33.58	6.13	13	39	10.54	11.27	2.15	39	70	7.06	32.67	1.13
08-07-2024	32	83	8.53	32.37	2.75	13	80	6.26	11.35	0.85	13	15	7.81	7.93	4.12	20	9	12.43	17.42	2.07	9	10	5.66	16.16	0.41
09-07-2024	NA	NA	NA	NA	NA	17	90	8.14	11.3	0.72	19	24	7.59	8.44	0.67	11	16	11.33	13.03	1.52	14	24	7.06	20.37	0.7
10-07-2024	NA	NA	NA	NA	NA	31	80	6.44	13.54	0.63	24	37	8.05	10.92	0.68	14	39	10.26	11.34	0.95	20	33	10.02	22.11	0.97
11-07-2024	NA	NA	NA	NA	NA	51	87	6.95	10.37	0.73	25	29	8.29	11.84	0.87	12	16	8.41	13.28	0.66	14	22	8.17	21.42	0.64
12-07-2024	NA	NA	NA	NA	NA	27	85	6.45	10.94	0.71	20	25	8.21	22.59	1.29	17	21	9.2	13.65	1.02	17	29	7.11	24.41	0.71
13-07-2024	NA	NA	NA	NA	NA	23	82	7.3	11.55	0.62	26	39	8.65	23.87	1.82	9	25	9.03	13.06	0.78	19	46	7.96	25.15	0.88
14-07-2024	NA	NA	NA	NA	NA	17	67	5.91	12.33	1.03	25	36	8.38	19.22	1.84	33	75	9.34	13.36	1.3	15	36	7.59	22.02	0.74
15-07-2024	NA	NA	NA	NA	NA	14	69	6.62	11.76	0.62	18	21	7.75	16.12	0.87	13	18	9.3	14.98	0.81	15	25	6.64	19.14	0.47
16-07-2024	NA	NA	NA	NA	NA	20	82	8.06	9.64	0.61	17	25	8.27	10.79	0.75	12	22	9.47	13.65	0.69	24	64	13	27.47	1
17-07-2024	NA	NA	NA	NA	NA	18	79	12.7	11.47	0.63	17	29	7.79	11.54	1.16	15	42	9.71	18.97	0.7	16	48	9.33	24.6	0.82
18-07-2024	NA	NA	NA	NA	NA	14	81	7.38	10.11	0.78	17	26	7.82	15.45	1.84	17	47	10.03	19.7	0.92	31	62	7.42	27.77	0.88
19-07-2024	NA	NA	NA	NA	NA	14	50	7.71	8.16	0.81	25	40	8.06	13.03	1.96	22	59	10.14	25.2	1.01	26	86	7.82	31.55	1.19
20-07-2024	NA	NA	NA	NA	NA	13	43	8.05	8.93	0.66	30	49	7.95	18.58	2.85	13	27	10.66	18.22	0.75	55	85	7.91	39.77	1.48
21-07-2024	NA	NA	NA	NA	NA	7	55	8.46	9.77	0.57	33	58	8.34	25.44	3.8	22	61	10.25	16.06	0.79	33	84	7.47	34.65	1.08
22-07-2024	NA	NA	NA	NA	NA	8	31	8.81	7.96	0.57	41	74	8.22	33.03	3.67	27	78	10.48	16.16	0.86	30	84	7.81	43.24	1.1
23-07-2024	NA	NA	NA	NA	NA	16	34	9.09	6.2	0.57	46	76	8.52	43.74	3.3	37	83	10.81	24.47	1.01	21	35	7.89	24.13	0.49
24-07-2024	NA	NA	NA	NA	NA	14	27	9.26	7.07	0.57	44	78	8.77	40.91	4.4	51	88	11.3	22.73	1.75	20	30	6.51	17.63	0.4
25-07-2024	NA	NA	NA	NA	NA	7	84	9.42	8.51	0.55	43	79	8.63	41	3.23	66	85	11.9	24.31	1.77	22	19	7.49	16.4	0.43
26-07-2024	NA	NA	NA	NA	NA	10	20	9.63	8.89	0.46	50	89	8.91	41.73	4.94	56	81	11.87	21.83	0.19	33	69	8.55	19.42	0.38
27-07-2024	NA	NA	NA	NA	NA	11	20	9.87	8.06	0.42	48	92	10.06	49.08	3.96	NA	62	10.02	9.55	2.67	29	64	4.98	21.57	0.41
28-07-2024	NA	NA	NA	NA	NA	9	33	10.2	7.82	0.5	54	90	9.42	45.86	3.63	NA	63	9.84	9.12	2	35	50	6.13	17.48	0.38
29-07-2024	NA	NA	NA	NA	NA	14	41	11	8.61	0.69	45	89	8.94	41.94	4.79	NA	51	10.22	11.52	2.16	39	78	6.89	19.75	0.42
30-07-2024	NA	NA	NA	NA	NA	10	30	11.8	8.43	0.68	44	79	9.31	40.5	4.07	NA	27	10.07	9.54	2.03	27	58	7.7	21.66	0.65
31-07-2024	NA	NA	NA	NA	NA	10	20	12.3	7.57	0.6	42	89	9.57	42.83	1.41	NA	67	9.94	8.74	2.26	29	40	8.4	19.65	0.36
Max (µg/m3)	**45**	**90**	**9**	**32**	**3**	**51**	**90**	**13**	**14**	**1**	**54**	**96**	**10**	**49**	**6**	**86**	**88**	**12**	**25**	**3**	**59**	**95**	**13**	**68**	**3**
Min (µg/m3)	**18**	**46**	**7**	**5**	**1**	**7**	**17**	**4**	**6**	**0**	**13**	**15**	**7**	**8**	**1**	**9**	**9**	**8**	**9**	**0**	**9**	**10**	**5**	**16**	**0**
(µg/m3)	**30**	**75**	**7**	**14**	**1**	**15**	**51**	**8**	**10**	**1**	**34**	**60**	**8**	**28**	**3**	**26**	**49**	**10**	**16**	**1**	**29**	**57**	**8**	**30**	**1**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

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

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-08-2024	NA	NA	NA	NA	NA	14	17	12.7	8.17	0.48	41	92	9.61	42.46	2.99	NA	45	10.2	10.74	2.09	23	34	5.77	16.35	0.36
02-08-2024	NA	NA	NA	NA	NA	10	12	12.7	8.8	0.44	37	74	9.25	41.28	2.73	NA	48	10.7	20.41	2.09	36	73	5.4	35.65	0.78
03-08-2024	NA	NA	NA	NA	NA	7	15	12.9	7.84	0.47	44	79	9.6	43.63	2.41	NA	23	10.93	13.67	2.04	23	78	4.9	37.88	0.77
04-08-2024	NA	NA	NA	NA	NA	7	20	12.9	8.2	0.56	34	69	9.02	31.6	2.86	NA	25	11.29	16.29	2.08	3	90	7.81	45.34	1.7
05-08-2024	NA	NA	NA	NA	NA	12	16	13.8	9.6	0.49	29	63	8.25	27.7	1.99	NA	24	11.44	13.81	1.09	2	82	6.71	42.93	1.74
06-08-2024	NA	NA	NA	NA	NA	11	39	13.1	10.85	0.46	30	67	8.27	31.29	2.78	NA	31	12.33	14.91	2.16	4	37	8.77	23.73	0.42
07-08-2024	NA	NA	NA	NA	NA	10	74	12.2	11.34	0.52	34	87	9	34.19	0.49	NA	75	11.6	14.78	2.36	30	39	5.68	23.07	0.45
08-08-2024	NA	NA	NA	NA	NA	13	73	12	11.19	0.59	21	49	8.8	16.97	0.27	NA	65	11.77	13.28	2.23	37	55	7.32	26.05	0.44
09-08-2024	NA	NA	NA	NA	NA	7	84	12.4	11.27	0.57	23	60	8.64	14.7	0.35	NA	93	12.04	14.14	1.86	33	73	7.52	26.3	0.58
10-08-2024	NA	NA	NA	NA	NA	8	95	11.9	12.18	0.51	26	65	9.26	21.44	0.94	NA	40	12.24	13.53	0.16	21	43	6.64	24.04	0.47
11-08-2024	NA	NA	NA	NA	NA	26	92	11.4	9.57	0.61	23	63	9.32	24.14	1.07	NA	29	12.1	16.03	0.03	22	49	5.84	24.84	0.51
12-08-2024	NA	NA	NA	NA	NA	23	89	11.1	12.66	0.53	17	44	8.88	17.79	1.04	NA	61	11.88	12.55	0.45	21	46	5.72	20.91	0.55
13-08-2024	NA	NA	NA	NA	NA	9	94	11.4	13.08	0.48	22	60	8.71	11.57	0.57	NA	83	12.35	14.44	0.93	27	70	6.54	21	0.43
14-08-2024	NA	NA	NA	NA	NA	17	58	13	10.26	0.55	18	45	9.1	7.28	0.4	40	84	12.48	12.12	2.55	30	78	6.76	23	0.41
15-08-2024	NA	NA	NA	NA	NA	18	94	11.9	10	0.64	17	47	8.68	7.87	0.39	29	87	11.34	11.22	2.73	31	90	8.19	25.87	0.45
16-08-2024	NA	NA	NA	NA	NA	14	93	11.4	11.8	0.55	20	58	9.72	8.73	0.52	20	56	12.37	14.65	2.03	37	95	8.9	24.1	0.42
17-08-2024	NA	NA	NA	NA	NA	20	86	11.5	11.67	0.59	19	56	9.35	7.95	0.46	31	86	12.99	13.93	1.51	32	79	7.72	24.13	0.45
18-08-2024	NA	NA	NA	NA	NA	17	81	12.7	12.84	0.82	16	37	8.82	7.53	0.71	29	83	13.27	12.83	2.84	24	58	6.09	20.98	0.49
19-08-2024	NA	NA	NA	NA	NA	12	82	11.8	18.26	1.13	19	41	9.9	5.94	0.85	26	76	13.07	12.89	2.22	13	52	6.31	20.75	0.58
20-08-2024	NA	NA	NA	NA	NA	9	68	12.4	17.73	0.87	19	32	8.89	10.45	0.77	13	28	13.23	13.56	1.27	8	39	7.25	20.09	0.54
21-08-2024	NA	NA	NA	NA	NA	15	63	12.8	14.1	0.76	18	37	5.06	7.64	0.59	20	56	11.72	11.55	1.29	19	52	8.09	22.2	0.55
22-08-2024	NA	NA	NA	NA	NA	24	70	11.4	15.67	0.49	19	46	7.43	13.44	0.72	14	36	10.14	10.94	0.96	25	58	6.55	25.75	0.5
23-08-2024	NA	NA	NA	NA	NA	18	78	6.73	16.84	0.52	11	38	6.39	6.53	0.93	8	11	10.71	9.52	0.94	13	38	7.81	20.88	0.58
24-08-2024	NA	NA	NA	NA	NA	5	68	6.77	14.02	0.7	25	58	6.7	15.63	1.09	24	55	10.74	10.62	1.12	2	21	6.54	24.8	0.64
25-08-2024	NA	NA	NA	NA	NA	8	8	7.67	9.29	0.55	43	79	7.07	26.88	1.79	29	68	10.9	22.67	1.21	14	61	6.59	25.61	0.68
26-08-2024	NA	NA	NA	NA	NA	8	9	6.75	9.07	0.51	46	93	7.12	31.98	2.86	13	25	11.22	14.26	0.94	11	40	6.16	19.75	0.44
27-08-2024	NA	NA	NA	NA	NA	8	10	5.25	8.3	0.44	32	70	6.68	19.96	2.24	9	13	10.9	9.94	0.93	45	79	7.49	62.96	1.64
28-08-2024	NA	NA	NA	NA	NA	8	21	6.95	9.33	0.44	27	65	6.71	15.79	1.54	9	17	10.99	10.94	0.94	40	81	7.28	52.57	2.03
29-08-2024	NA	NA	NA	NA	NA	9	76	8.18	11.53	0.49	27	75	6.67	12.98	0.76	32	24	11.12	11.21	0.96	50	82	7.37	59.24	2.26
30-08-2024	NA	NA	NA	NA	NA	11	91	9	12.52	0.56	19	54	6.63	15.91	1.52	14	32	11.21	8.72	1.94	11	36	6.61	28.45	0.91
31-08-2024	NA	NA	NA	NA	NA	22	79	8.92	13.99	0.56	21	54	6.86	18.32	0.68	27	61	11.69	9.35	2.11	21	30	7.02	22.11	0.45
Max (µg/m3)	**0**	**0**	**0**	**0**	**0**	**26**	**95**	**14**	**18**	**1**	**46**	**93**	**10**	**44**	**3**	**40**	**93**	**13**	**23**	**3**	**50**	**95**	**9**	**63**	**2**
Min (µg/m3)	**0**	**0**	**0**	**0**	**0**	**5**	**8**	**5**	**8**	**0**	**11**	**32**	**5**	**6**	**0**	**8**	**11**	**10**	**9**	**0**	**2**	**21**	**5**	**16**	**0**
(µg/m3)	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**13**	**60**	**11**	**12**	**1**	**26**	**60**	**8**	**19**	**1**	**21**	**50**	**12**	**13**	**2**	**23**	**59**	**7**	**29**	**1**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

B. AMBIENT AIR QUALITY & FUGITIVE EMISSIONS:

a). AMBIENT AIR QUALITY(AAQ):

Location	Near Kasumata Temple					Near Coke Oven Plant					Near Goa Gate					Near MSEB Substation					Near Dolvi 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
DD-MM-YYYY	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
01-09-2024	NA	NA	NA	NA	NA	19.32	45.49	7.32	12.27	0.61	20.02	51.24	6.87	12.38	0.48	36.44	68.98	11.56	9.91	2.6	18.22	55.11	8.11	20	0.43
02-09-2024	NA	NA	NA	NA	NA	23.9	87.84	6.8	14.18	0.67	22.05	45.65	6.72	9.99	0.53	32.67	57.16	11.34	9.54	2.3	11.22	33.31	7.55	19.2	0.44
03-09-2024	NA	NA	NA	NA	NA	12.73	77.26	7.15	15.4	0.59	31.16	67.06	7.64	30.81	1.55	37.31	64.44	11.24	9.23	1.83	33.4	40.48	7.78	22.63	0.4
04-09-2024	NA	NA	NA	NA	NA	18.49	92.2	7.25	10.6	0.47	28.72	76.62	7.77	26.81	1.26	34.93	53.3	11.62	11.77	1.78	29.63	47.61	6.4	23.3	0.45
05-09-2024	NA	NA	NA	NA	NA	11.86	27.79	7.41	12.59	0.51	29.86	70.08	7.8	30.23	1.51	59.15	90.05	11.65	11	2.0	15.21	40.83	5.7	19.74	0.37
06-09-2024	NA	NA	NA	NA	NA	5.87	69.33	6.9	12.47	0.68	31.91	79.84	7.95	28.37	1.61	37.93	63.37	10.27	9.92	1.67	20.7	42.52	6.9	21.46	0.41
07-09-2024	NA	NA	NA	NA	NA	0.92	94.87	7.57	15.42	0.64	21.85	54.74	8.02	21.17	1.09	23.31	34.88	9.04	9.19	1.57	34.04	46.55	6.68	19.41	0.56
08-09-2024	NA	NA	NA	NA	NA	2.94	90.03	7.65	14.5	0.51	18.62	46.41	7.97	19.94	1.05	16.23	35.16	8.79	7.6	1.28	21.72	26.77	7.58	17.77	0.45
09-09-2024	NA	NA	NA	NA	NA	13.13	93.81	7.68	14.95	0.59	17.54	38.93	7.4	15.77	0.63	26.43	65.7	9.34	7.93	1.33	14.62	29.43	7.62	18.52	0.43
10-09-2024	NA	NA	NA	NA	NA	14.35	93.4	7.77	13.73	0.51	24.95	52.88	7.05	18.25	1.23	17.82	17.44	9.36	8.04	1.3	9.42	41.26	7.21	22.25	0.5
11-09-2024	NA	NA	NA	NA	NA	17.43	91.26	7.95	12.72	0.43	21.53	47.86	6.88	16.93	1.14	16.78	19.95	11.78	8.11	1.31	25.24	43.38	6.44	20.26	0.53
12-09-2024	NA	NA	NA	NA	NA	35.58	91.59	8.09	14.04	0.43	21.59	59.02	7.15	14.23	1.1	25.26	35.37	11.71	8.54	1.33	40.68	71.62	6.03	20.56	0.64
13-09-2024	NA	NA	NA	NA	NA	18.5	91.31	8.13	13.73	0.48	24.91	60.4	6.54	19.19	1.52	59.73	44.37	12.24	9.03	1.34	37.3	72.37	5.99	21.05	0.49
14-09-2024	NA	NA	NA	NA	NA	22.49	94.87	8.16	16.96	0.53	23.32	61.69	6.74	19.63	1.71	19.67	33.64	13.03	9.24	1.42	48.56	86.83	7.46	28.05	0.55
15-09-2024	NA	NA	NA	NA	NA	17.93	95.09	8.18	16.58	0.82	16.23	32.57	6.65	10.96	0.66	12.14	18.36	11.41	8.45	1.62	28.79	34.99	7.04	22.15	0.66
16-09-2024	NA	NA	NA	NA	NA	16.65	91.64	8.24	15.58	0.62	15.94	28.8	6.75	10.21	0.74	14.65	31.37	9.9	8	1.48	19.22	31.55	7.43	22.39	0.58
17-09-2024	NA	NA	NA	NA	NA	23.54	90.98	8.24	12.35	0.72	18.78	37.87	6.9	10.34	0.52	34.55	75.17	9.64	8.69	2.14	12.02	52.42	8.18	25.46	0.5
18-09-2024	NA	NA	NA	NA	NA	21.54	91.59	10.7	24.63	0.61	24.5	62.15	6.41	14.68	0.75	23.84	50.97	9.75	7.9	1.59	23.24	58.04	7.02	21.78	0.5
19-09-2024	NA	NA	NA	NA	NA	39.99	96.09	12.71	19.74	0.51	23.55	52.82	6.13	9.83	0.67	21.97	51.7	9.81	7.86	1.57	29.89	62.99	6.47	22.71	0.45
20-09-2024	NA	NA	NA	NA	NA	44.84	90.96	11.02	17.58	0.59	21.3	48.68	5.76	9.47	0.57	35.33	82.66	10.14	7.95	1.86	41.47	66.81	7.8	25.1	0.48
21-09-2024	NA	NA	NA	NA	NA	26.83	96.29	13.06	15.3	0.58	20.63	46.23	6.49	11.81	0.56	39.28	92.45	10.04	9.36	2.34	14.85	69.75	7.47	28.99	0.49
22-09-2024	NA	NA	NA	NA	NA	28.38	94.51	13.28	17.28	0.62	21.54	51.09	6.46	10.92	0.57	48.66	95.18	10.27	8.98	2.99	21.62	78.38	7.17	26.59	0.47
23-09-2024	NA	NA	NA	NA	NA	18.51	47.3	13.49	20.55	0.47	28.57	55.2	6.3	8.49	0.57	51.5	92.09	10.43	9.32	3.05	43.86	93.4	6.8	22.37	0.46
24-09-2024	NA	NA	NA	NA	NA	23.81	88.13	13.33	17.18	0.95	18.84	26.01	6.73	7.7	0.64	40.25	85.78	10.56	8.64	3.02	24.64	32.52	7.65	18.14	0.5
25-09-2024	NA	NA	NA	NA	NA	18.82	94.04	13.85	16.36	0.66	22.08	34.93	7.16	15.63	1.24	14.49	21.79	10.39	9.75	1.73	27.7	37.67	6.18	24.88	0.66
26-09-2024	NA	NA	NA	NA	NA	15.21	39.33	13.41	10.97	0.61	18.73	36.8	7.54	16.33	0.96	20.09	28.52	10.59	13.23	1.75	20.34	17.59	6.81	22.91	0.5
27-09-2024	NA	NA	NA	NA	NA	33.92	95.06	13.09	12.31	0.57	31.51	66.64	8.83	25.61	2.25	28.85	48.37	10.23	8.4	1.73	13.71	51.03	6.75	26.24	0.65
28-09-2024	NA	NA	NA	NA	NA	43.79	92.86	12.04	12	0.57	18.18	39.7	7.99	15.2	1.4	27.85	45.03	10.32	8.02	1.7	18.79	36.04	7.29	23.94	0.67
29-09-2024	NA	NA	NA	NA	NA	42.19	94.04	10.36	15.04	0.52	23.89	56.88	7.58	13.43	1.19	20.15	36.96	10.4	7.51	1.57	15.29	24.02	6.85	19.71	0.43
30-09-2024	NA	NA	NA	NA	NA	47.29	91.08	9.88	13.68	0.75	16.8	34.02	7.46	8.88	0.67	53.34	91.13	10.63	11.34	2.47	24.03	37.03	7.45	22.31	0.5
Max (µg/m3)	**0**	**0**	**0**	**0**	**0**	**47**	**96**	**14**	**25**	**1**	**32**	**80**	**9**	**31**	**2**	**60**	**95**	**13**	**13**	**3**	**49**	**93**	**8**	**29**	**1**
Min (µg/m3)	**0**	**0**	**0**	**0**	**0**	**1**	**28**	**7**	**11**	**0**	**16**	**26**	**6**	**8**	**0**	**12**	**17**	**9**	**8**	**1**	**9**	**18**	**6**	**18**	**0**
(µg/m3)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**23**	**84**	**10**	**15**	**1**	**23**	**51**	**7**	**16**	**1**	**31**	**54**	**11**	**9**	**2**	**25**	**49**	**7**	**22**	**1**
Standards	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**	**60**	**100**	**80**	**80**	**4**

Showing NA due to the Aqms station is off because rain water is passing in aqms station

Prepared By
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Manager (Environment)

Checked By
Satish Kumar Choudhary
General Manager (Environment)

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

FUGITIVE EMISSION STATUS:					
Sr. No.	Location of the Station	Date & Time of Monitoring	Parmeters (µg/m 3)		
			PM10	SO_2	NO_X
A	Steel Melt Shop -II				
	Norms (µg/m 3)		2000	200	150
1	Near Convertor 1&2	01-04-2024	1668	4.73	37.77
		20-05-2024	1420	3.94	39.31
		21-06-2024	1709	5.00	42.40
		24-07-2024	1671	5.80	45.48
		28-08-2024	1571	6.80	50.10
		23-09-2024	1624	7.10	47.79
2	Near LF	01-04-2024	1701	7.09	26.98
		20-05-2024	1534	5.77	27.72
		22-06-2024	1897	6.60	30.06
		25-07-2024	1492	6.80	26.91
		29-08-2024	1556	7.40	24.67
		23-09-2024	1759	8.10	26.95
3	Near Caster 1&2	01-04-2024	1287	6.31	20.04
		21-05-2024	1425	5.52	20.81
		21-06-2024	1507	6.00	19.27
		24-07-2024	1684	6.30	22.33
		28-08-2024	1657	5.80	25.34
		23-09-2024	1815	6.60	30.02
4	Near Secondary De-dusting Bag House	01-04-2024	1643	5.52	20.81
		22-05-2024	1789	6.04	22.35
		21-06-2024	1696	6.60	23.90
		24-07-2024	1560	5.50	26.98
		29-08-2024	1707	6.30	29.15
		23-09-2024	1666	7.60	26.95
5	Near ESP	02-04-2024	1549	6.83	16.96
		20-05-2024	1347	6.57	19.27
		22-06-2024	1863	7.10	20.04
		25-07-2024	1811	6.60	19.22
		29-08-2024	1819	6.80	20.81
		24-09-2024	1640	7.10	19.25

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

FUGITIVE EMISSION STATUS:					
Sr. No.	Location of the Station	Date & Time of Monitoring	Parmeters (µg/m 3)		
			PM10	SO_2	NO_X
6	Near Slag Handling Unit	02-04-2024	1769	3.50	17.81
		22-05-2024	1784	3.74	16.44
		22-06-2024	1638	3.50	18.50
		24-07-2024	1528	4.20	22.53
		29-08-2024	1815	4.90	23.89
		24-09-2024	1778	7.20	22.58
B	**Blast Furnace Plant**				
	Norms (µg/m 3)		**2000**	**200**	**150**
1	Near Stock House De System	04-04-2024	1221	5.14	19.19
		25-05-2024	1612	5.84	17.13
		24-06-2024	1771	6.1	28.78
		22-07-2024	1605	6.8	26.72
		27-08-2024	1699	6.3	26.04
		25-09-2024	1883	5.8	23.98
2	Near GCP Area	04-04-2024	1666	6.07	28.09
		24-05-2024	1590	5.61	30.15
		25-06-2024	1660	6.3	30.83
		22-07-2024	1729	5.6	30.15
		28-08-2024	1623	5.8	33.45
		25-092024	1831	6.5	32.2
3	Near Cast House De System	04-04-2024	1733	8.67	24.67
		24-05-2024	1723	8.14	26.98
		24-06-2024	1502	8.7	24.67
		23-07-2024	1686	9.2	26.98
		27-08-2024	1832	8.4	29.91
		25-09-2024	1787	8.1	31.6
4	Near Cast House East	04-04-2024	1760	5.84	23.30
		24-05-2024	1622	6.07	21.24
		25-06-2024	1849	5.8	22.61
		22-07-2024	1814	6.3	28.09
		27-08-2024	1868	5.8	28.78
		25-09-2024	1732	6.8	30.15

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JSW STEEL LIMITED
Integrated Steel Mill Complex Phase II
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FUGITIVE EMISSION STATUS:					
Sr. No.	Location of the Station	Date & Time of Monitoring	Parmeters (µg/m 3)		
			PM10	SO_2	NO_X
5	Near Cast House West	05-04-2024	1629	5.52	20.81
		24-05-2024	1432	5.78	19.27
		24-06-2024	1619	7.1	20.81
		23-07-2024	1581	6.6	19.25
		27-08-2024	1712	7.6	22.24
		26-09-2024	1895	7.1	26.98
6	Near PCI-2	05-04-2024	1649	5.46	9.25
		24-05-2024	1395	5.25	11.72
		24-06-2024	1825	6.1	12.95
		22-07-2024	1653	5.3	17.88
		28-08-2024	1609	4.6	15.42
		26-09-2024	1874	5.5	21.58
7	Near Pig Granulation Plant	05-04-2024	1516	5.25	20.97
		25-05-2024	1631	5.68	22.20
		25-06-2024	1611	5.9	21.58
		23-07-2024	1576	6.1	20.35
		27-08-2024	1569	5.7	21.58
		26-09-2024	1855	5.0	25.9

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
A)	**Hot Strip Mill - II**				
1	Near Reheating Furnace 1	5	02-04-2024	81	70
			13-05-2024	82	80
			10-06-2024	81	70
			11-07-2024	81	80
			09-08-2024	82	80
			21-08-2024	81	79
			10-09-2024	81	80
			24-09-2024	82	80
2	Near Reheating Furnace 2	5	02-04-2024	80	77
			13-05-2024	80	78
			10-06-2024	80	78
			11-07-2024	82	78
			09-08-2024	80	78
			21-08-2024	79	77
			10-09-2024	79	77
			24-09-2024	78	76
3	Near CA fan of Reheating Furnace 1	5	02-04-2024	82	81
			13-05-2024	81	77
			10-06-2024	82	80
			11-07-2024	80	77
			09-08-2024	82	79
			21-08-2024	81	80
			10-09-2024	81	80
			24-09-2024	82	81
4	Near CA fan of Reheating Furnace 2	5	02-04-2024	81	78
			13-05-2024	76	74
			10-06-2024	81	78
			11-07-2024	77	76
			09-08-2024	80	76
			21-08-2024	79	75
			10-09-2024	82	78
			24-09-2024	80	80

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
5	Near Hydralic Room of Reheating Furnace 1	5	02-04-2024	78	76
			13-05-2024	71	69
			10-06-2024	78	76
			11-07-2024	72	70
			09-08-2024	72	69
			21-08-2024	74	67
			10-09-2024	73	70
			24-09-2024	75	72
6	Near Hydralic Room of Reheating Furnace 2	5	02-04-2024	71	82
			13-05-2024	79	77
			10-06-2024	80	75
			11-07-2024	79	77
			09-08-2024	79	77
			21-08-2024	81	79
			10-09-2024	80	75
			24-09-2024	82	80
7	Near Reheating Furnace Control Room	5	02-04-2024	83	81
			13-05-2024	77	75
			10-06-2024	83	81
			11-07-2024	76	74
			09-08-2024	77	75
			21-08-2024	79	73
			10-09-2024	78	77
			24-09-2024	80	74
8	Near 7 strand Mill	5	02-04-2024	81	79
			13-05-2024	79	74
			10-06-2024	81	79
			11-07-2024	78	76
			09-08-2024	80	74
			21-08-2024	82	80
			10-09-2024	82	76
			24-09-2024	81	78

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
9	Near Mill Control Room	5	02-04-2024	79	77
			13-05-2024	75	73
			10-06-2024	79	77
			11-07-2024	76	74
			09-08-2024	75	73
			21-08-2024	77	75
			10-09-2024	76	74
			24-09-2024	78	76
10	Roll Shop	5	02-04-2024	82	76
			13-05-2024	82	80
			10-06-2024	82	78
			11-07-2024	83	80
			09-08-2024	82	80
			21-08-2024	80	77
			10-09-2024	80	79
			24-09-2024	82	79
11	Near Motor House & ECR (Mill area)	5	02-04-2024	80	78
			13-05-2024	76	75
			10-06-2024	81	79
			11-07-2024	77	75
			09-08-2024	76	75
			21-08-2024	78	74
			10-09-2024	77	76
			24-09-2024	79	75
12	Near Measuring House (Mill Area)	5	02-04-2024	82	79
			13-05-2024	72	70
			10-06-2024	80	76
			11-07-2024	73	71
			09-08-2024	72	70
			21-08-2024	74	72
			10-09-2024	73	71
			24-09-2024	75	73

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
13	Near Pulpit Down Coiler	5	02-04-2024	80	77
			13-05-2024	71	68
			10-06-2024	79	77
			11-07-2024	72	70
			09-08-2024	71	68
			21-08-2024	73	71
			10-09-2024	72	69
			24-09-2024	74	72
14	Coil Yard Area	5	02-04-2024	75	72
			13-05-2024	70	67
			10-06-2024	75	72
			11-07-2024	70	68
			09-08-2024	70	67
			21-08-2024	72	68
			10-09-2024	71	69
			24-09-2024	73	70
B)	**Steel Melting Shop - II**				
1	Near GCP ID fan	5	03-04-2024	84	77
			14-05-2024	75	72
			11-06-2024	84	81
			12-07-2024	75	72
			10-08-2024	75	72
			22-08-2024	74	71
			11-09-2024	76	73
			25-09-2024	75	72
2	Near Bag House of GCP	5	03-04-2024	78	70
			14-05-2024	70	68
			11-06-2024	78	74
			12-07-2024	70	69
			10-08-2024	70	68
			22-08-2024	71	70
			11-09-2024	71	69
			25-09-2024	72	71

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
3	Near ESP	5	03-04-2024	84	75
			14-05-2024	82	80
			11-06-2024	84	81
			12-07-2024	83	80
			10-08-2024	82	80
			22-08-2024	81	78
			11-09-2024	83	80
			25-09-2024	82	80
4	Near KR Process control Room	5	03-04-2024	81	72
			14-05-2024	72	71
			11-06-2024	81	79
			12-07-2024	71	68
			10-08-2024	72	71
			22-08-2024	70	68
			11-09-2024	73	70
			25-09-2024	71	67
5	Near Convertor I & II	5	03-04-2024	80	78
			14-05-2024	68	66
			11-06-2024	80	78
			12-07-2024	68	66
			10-08-2024	68	66
			22-08-2024	65	67
			11-09-2024	69	68
			25-09-2024	66	65
6	Near SMS2 Control Room	5	03-04-2024	74	70
			14-05-2024	67	65
			11-06-2024	74	70
			12-07-2024	67	65
			10-08-2024	67	65
			22-08-2024	68	70
			11-09-2024	68	67
			25-09-2024	69	68

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
7	Near LF 1 Control Room	5	03-04-2024	82	75
			14-05-2024	75	73
			11-06-2024	82	78
			12-07-2024	76	73
			10-08-2024	75	73
			22-08-2024	73	71
			11-09-2024	76	74
			25-09-2024	74	72
8	Near LF 2 Control Room	5	03-04-2024	81	79
			14-05-2024	71	68
			11-06-2024	81	79
			12-07-2024	72	70
			10-08-2024	71	68
			22-08-2024	72	70
			11-09-2024	72	69
			25-09-2024	71	68
9	Near Caster Control Room 1	5	03-04-2024	82	78
			14-05-2024	81	79
			11-06-2024	82	78
			12-07-2024	80	79
			10-08-2024	81	79
			22-08-2024	80	77
			11-09-2024	82	80
			25-09-2024	81	78

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NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
10	Near Caster Control Room 2	5	03-04-2024	77	74
			14-05-2024	83	81
			11-06-2024	77	74
			12-07-2024	82	81
			10-08-2024	83	81
			22-08-2024	85	83
			11-09-2024	84	82
			25-09-2024	82	80
11	Near Mould & Seqment Reoair Shop	5	03-04-2024	81	76
			14-05-2024	84	82
			11-06-2024	81	79
			12-07-2024	84	82
			10-08-2024	84	82
			22-08-2024	81	78
			11-09-2024	80	79
			25-09-2024	83	80
12	In Slab Stacking Area	5	03-04-2024	84	82
			14-05-2024	82	78
			11-06-2024	84	82
			12-07-2024	81	80
			10-08-2024	82	80
			22-08-2024	79	77
			11-09-2024	81	78
			25-09-2024	82	79

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NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
C)	**Lime Calcination Plant - 5, 6, 7**				
1	Near Lime Stone Storage De-dusting Stack	5	04-04-2024	82	75
			21-05-2024	78	76
			12-06-2024	82	78
			13-07-2024	78	76
			12-08-2024	78	76
			23-08-2024	76	74
			12-09-2024	79	77
			26-09-2024	77	75
2	Near Lime Storage De-dusting Stack	5	04-04-2024	80	72
			21-05-2024	71	70
			12-06-2024	80	76
			13-07-2024	71	70
			12-08-2024	71	69
			23-08-2024	69	67
			12-09-2024	71	70
			26-09-2024	70	68
3	Near Blower House 1	5	04-04-2024	82	80
			21-05-2024	84	82
			12-06-2024	82	80
			13-07-2024	84	82
			12-08-2024	84	82
			23-08-2024	82	80
			12-09-2024	83	81
			26-09-2024	84	82
4	Near Blower House 2	5	04-04-2024	83	70
			21-05-2024	82	80
			12-06-2024	83	82
			13-07-2024	82	80
			12-08-2024	81	79
			23-08-2024	80	76
			12-09-2024	82	80
			26-09-2024	81	78

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
5	Lime stone Vibro Feeder hopper	5	04-04-2024	82	77
			21-05-2024	67	65
			12-06-2024	82	76
			13-07-2024	67	65
			12-08-2024	72	70
			23-08-2024	70	68
			12-09-2024	73	70
			26-09-2024	71	69
6	Near WINCH of Kiln 5, 6, 7	5	04-04-2024	81	78
			21-05-2024	69	67
			12-06-2024	81	78
			13-07-2024	69	67
			12-08-2024	68	66
			23-08-2024	69	67
			12-09-2024	69	67
			26-09-2024	70	68
7	Lime Stone Vibro Feeder hopper De-dusting system	5	04-04-2024	78	71
			21-05-2024	75	73
			12-06-2024	78	71
			13-07-2024	75	73
			12-08-2024	75	73
			23-08-2024	74	72
			12-09-2024	76	74
			26-09-2024	75	73
8	Lime product De-dusting system	5	04-04-2024	75	68
			21-05-2024	72	69
			12-06-2024	75	68
			13-07-2024	72	69
			12-08-2024	72	70
			23-08-2024	71	68
			12-09-2024	73	71
			26-09-2024	72	70

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
D)	**Blast Furnace - II**				
1	Near Stock house Dedusting system	5	17-04-2024	72	70
			15-05-2024	74	71
			12-06-2024	72	70
			13-07-2024	74	71
			12-08-2024	74	71
			23-08-2024	72	69
			12-09-2024	75	72
			26-09-2024	73	70
2	Near SGP Area 1	5	17-04-2024	81	80
			15-05-2024	72	70
			12-06-2024	81	80
			13-07-2024	72	70
			12-08-2024	70	70
			23-08-2024	72	68
			12-09-2024	71	69
			26-09-2024	73	70
3	Near SGP Area 2	5	17-04-2024	80	76
			15-05-2024	70	69
			12-06-2024	80	78
			13-07-2024	70	69
			12-08-2024	70	69
			23-08-2024	73	67
			12-09-2024	71	69
			26-09-2024	74	70
4	Near Cast House Dedusting System	5	17-04-2024	82	78
			15-05-2024	83	81
			12-06-2024	82	79
			13-07-2024	83	81
			12-08-2024	83	81
			23-08-2024	80	79
			12-09-2024	84	82
			26-09-2024	81	78

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JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
5	Near GCP area	5	17-04-2024	81	78
			15-05-2024	79	78
			12-06-2024	81	77
			13-07-2024	79	78
			12-08-2024	79	77
			23-08-2024	81	80
			12-09-2024	80	78
			26-09-2024	82	80
6	Near Compressor House	5	17-04-2024	83	77
			15-05-2024	83	79
			12-06-2024	83	80
			13-07-2024	83	79
			12-08-2024	83	81
			23-08-2024	80	79
			12-09-2024	84	82
			26-09-2024	81	79
7	Near Blower House	5	17-04-2024	83	78
			15-05-2024	81	80
			12-06-2024	83	82
			13-07-2024	81	80
			12-08-2024	81	80
			23-08-2024	84	82
			12-09-2024	82	80
			26-09-2024	84	82

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
8	Near Stove Stack	5	17-04-2024	81	75
			15-05-2024	80	78
			12-06-2024	81	80
			13-07-2024	80	78
			12-08-2024	80	78
			23-08-2024	82	80
			12-09-2024	81	79
			26-09-2024	82	81
9	Near Cast House (East)	5	17-04-2024	76	70
			15-05-2024	84	82
			12-06-2024	76	74
			13-07-2024	84	82
			12-08-2024	84	82
			23-08-2024	81	78
			12-09-2024	83	80
			26-09-2024	80	77
10	Near Cast House (West)	5	17-04-2024	82	72
			15-05-2024	78	76
			12-06-2024	82	80
			13-07-2024	78	76
			12-08-2024	78	76
			23-08-2024	80	78
			12-09-2024	79	76
			26-09-2024	80	75

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
11	Near PCI	5	17-04-2024	81	79
			15-05-2024	79	77
			12-06-2024	81	79
			13-07-2024	79	77
			12-08-2024	79	77
			23-08-2024	82	80
			12-09-2024	78	76
			26-09-2024	79	77
E)	**Captive Power Plant 245 MW (175 + 70 MW)**				
1	Near Boiler Stack	5	18-04-2024	82	77
			15-05-2024	79	77
			13-06-2024	82	79
			16-07-2024	79	77
			12-08-2024	79	77
			23-08-2024	77	75
			13-09-2024	81	77
			27-09-2024	79	75
2	Near DG & Compressor House	5	18-04-2024	83	80
			15-05-2024	70	68
			13-06-2024	83	80
			16-07-2024	70	68
			12-08-2024	70	68
			23-08-2024	73	70
			13-09-2024	72	68
			27-09-2024	73	70

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
3	Near Steam Turbine Generator	5	18-04-2024	84	82
			15-05-2024	85	83
			13-06-2024	84	82
			16-07-2024	85	83
			12-08-2024	85	83
			23-08-2024	82	80
			13-09-2024	84	83
			27-09-2024	82	80
4	Inside Control Room	5	18-04-2024	82	78
			15-05-2024	65	64
			13-06-2024	82	78
			16-07-2024	65	64
			12-08-2024	65	64
			23-08-2024	68	65
			13-09-2024	66	65
			27-09-2024	67	66
5	Near STG Panel Room	5	18-04-2024	76	71
			15-05-2024	66	65
			13-06-2024	76	74
			16-07-2024	66	65
			12-08-2024	66	64
			23-08-2024	70	66
			13-09-2024	68	67
			27-09-2024	71	67

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
6	Near Pump House	5	18-04-2024	83	79
			15-05-2024	79	77
			13-06-2024	83	80
			16-07-2024	79	77
			12-08-2024	69	67
			23-08-2024	72	69
			13-09-2024	71	68
			27-09-2024	74	70
I)	**Pellet Plant - II**				
1	Ball Mill Area	5	18-04-2024	80	77
			06-05-2024	76	75
			13-06-2024	80	78
			16-07-2024	76	75
			02-08-2024	76	75
			15-08-2024	77	73
			13-09-2024	76	75
			27-09-2024	77	73
2	Additive Ball Mill Area	5	18-04-2024	84	79
			06-05-2024	74	72
			13-06-2024	84	82
			16-07-2024	74	72
			02-08-2024	74	72
			15-08-2024	75	70
			13-09-2024	74	72
			27-09-2024	75	70
3	Near ESP Area	5	18-04-2024	83	83
			06-05-2024	85	82
			13-06-2024	83	80
			16-07-2024	85	82
			02-08-2024	85	82
			15-08-2024	82	80
			13-09-2024	85	82
			27-09-2024	82	80

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

JSW STEEL LIMITED

NOISE POLLUTION CONTROL STATUS: April,May,June,July,August,September2024

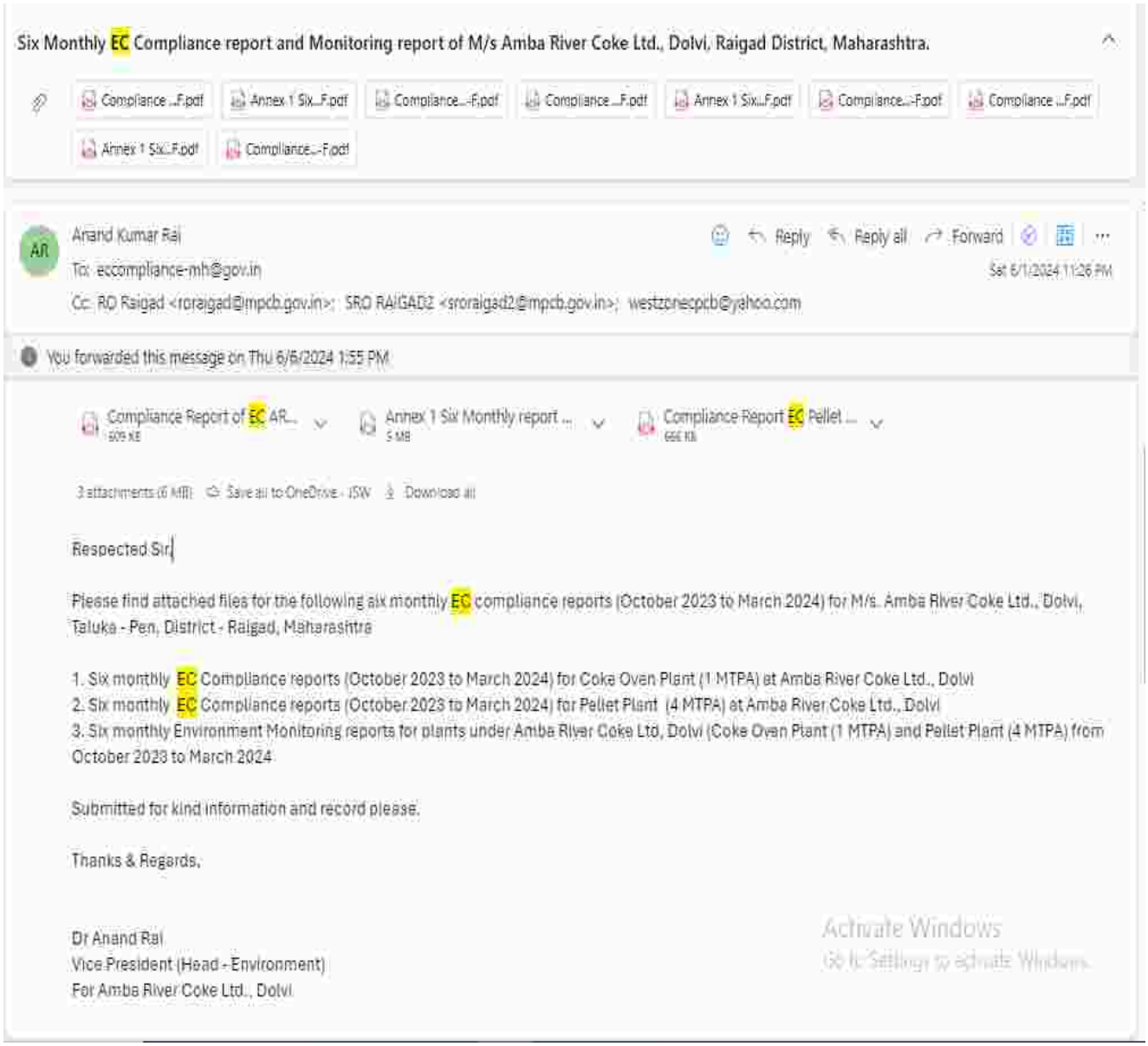
Name & Make of Instrument Used For Noise Monitoring- Blue Solo, Sr. No. 70214					
Sr. No.	Location	Distance from the Source	Date of Monitoring	Noise Level Leq. dB(A)	
				Day	Night
				dB(A)	dB(A)
4	Product Storage Area	5	18-04-2024	75	81
			06-05-2024	72	70
			13-06-2024	81	78
			16-07-2024	72	70
			02-08-2024	72	70
			15-08-2024	70	68
			13-09-2024	72	70
			27-09-2024	70	68
5	Indurating Area	5	18-04-2024	71	80
			06-05-2024	83	81
			13-06-2024	79	77
			16-07-2024	83	81
			02-08-2024	83	81
			15-08-2024	85	82
			13-09-2024	83	81
			27-09-2024	85	82
6	Hearth Layer Area	5	18-04-2024	77	76
			06-05-2024	79	77
			13-06-2024	77	76
			16-07-2024	79	77
			02-08-2024	79	77
			15-08-2024	76	74
			13-09-2024	79	77
			27-09-2024	76	74

Preapared by
Dr.P.P. Nandusekar
Manager Environment

Checked by
Satish Kumar Choudhary
General Manager Environment

Annexure 6

Mail Copy of EC Submission to MoEFCC



Six Monthly EC Compliance report and Monitoring report of M/s Amba River Coke Ltd., Dolvi, Raigad District, Maharashtra.

Compliance ...F.pdf | Annex 1 Six...F.pdf | Compliance...-F.pdf | Compliance ...F.pdf | Annex 1 Six...F.pdf | Compliance...-F.pdf | Compliance ...F.pdf | Annex 1 Six...F.pdf | Compliance...-F.pdf

AR Anand Kumar Rai

Reply | Reply all | Forward

To: eccompliance-mh@gov.in

Sat 6/1/2024 1:26 PM

Cc: RO Raigad <roraigad@mpcb.gov.in>; SRO RAIGAD2 <sroraigad2@mpcb.gov.in>; westzonempcb@yahoo.com

You forwarded this message on Thu 6/6/2024 1:55 PM

Compliance Report of EC AR... 609 KB | Annex 1 Six Monthly report ... 5 MB | Compliance Report EC Pellet ... 666 KB

3 attachments (6 MB) Save all to OneDrive - JSW Download all

Respected Sir,

Please find attached files for the following six monthly EC compliance reports (October 2023 to March 2024) for M/s. Amba River Coke Ltd., Dolvi, Taluka - Pen, District - Raigad, Maharashtra

1. Six monthly EC Compliance reports (October 2023 to March 2024) for Coke Oven Plant (1 MTPA) at Amba River Coke Ltd., Dolvi
2. Six monthly EC Compliance reports (October 2023 to March 2024) for Pellet Plant (4 MTPA) at Amba River Coke Ltd., Dolvi
3. Six monthly Environment Monitoring reports for plants under Amba River Coke Ltd, Dolvi (Coke Oven Plant (1 MTPA) and Pellet Plant (4 MTPA) from October 2023 to March 2024

Submitted for kind information and record please.

Thanks & Regards,

Dr Anand Rai
Vice President (Head - Environment)
For Amba River Coke Ltd., Dolvi

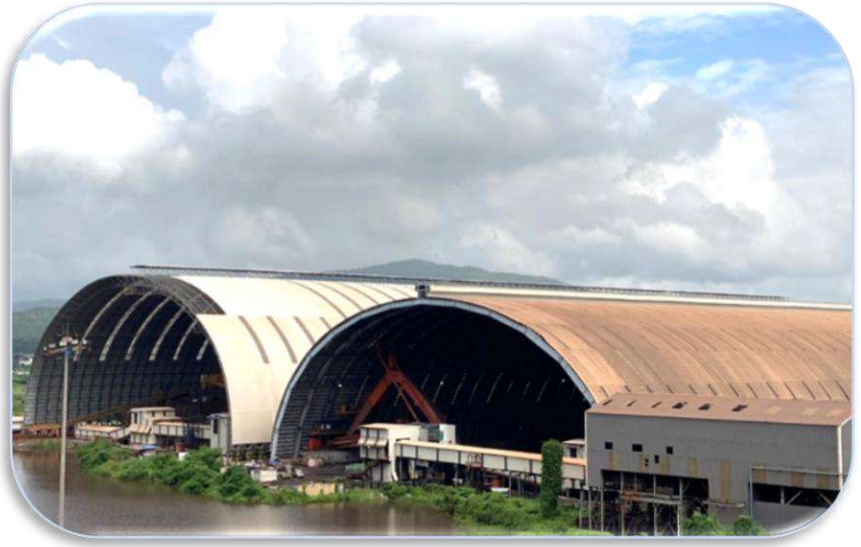
Annexure 7

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

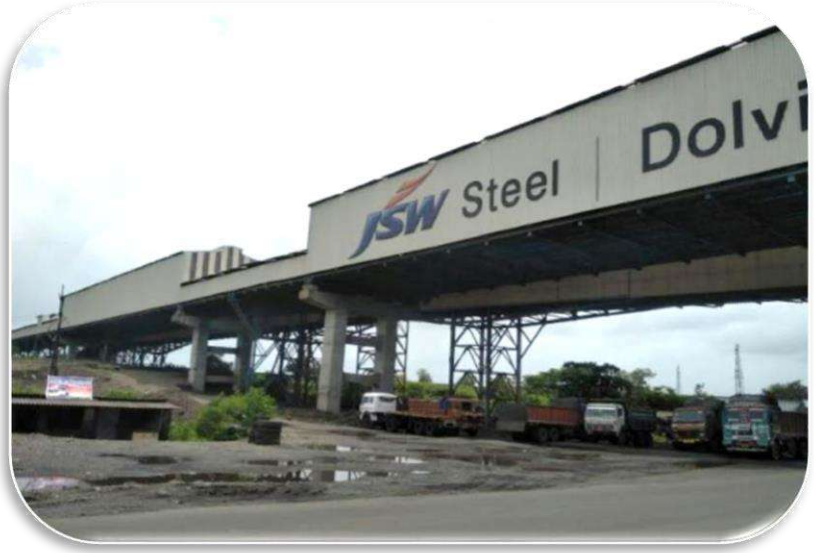
IV. Converting open storage to Covered Shed for Coal Storage Capacity-1,20,000 MT

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.

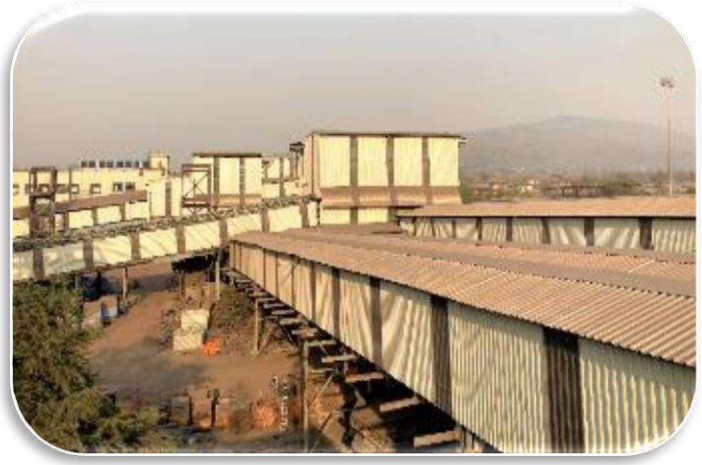
S. No.	Facilities	UoM	10 MTPA
1	Belt conveyors	Nos.	361
2	Conveyor dist. C/C	KM	61.84
3	Junction houses	Nos.	175
4	Dust Extraction system	Nos.	78
5	Dry fog de-dusting system	Nos.	4
6	Yard sprinklers	Nos.	6

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.**

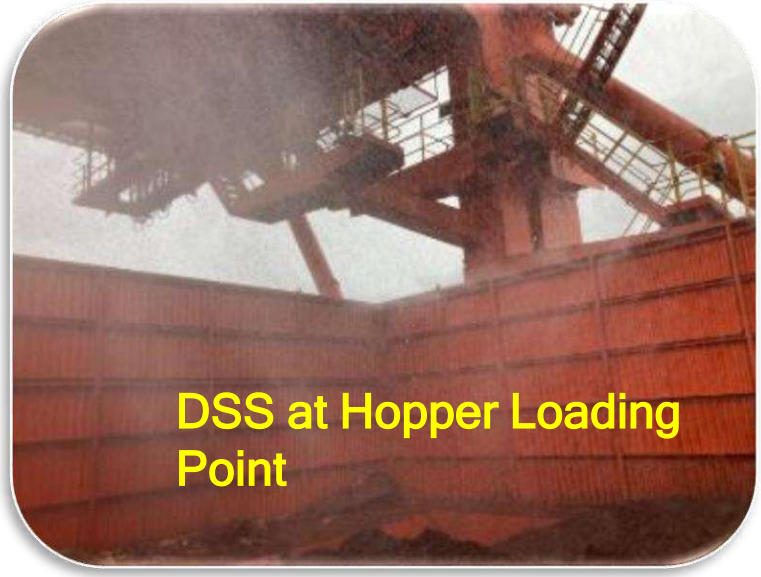
Dust Suppression System at Junction Houses of Raw Material Handling Area


DSS at Receiving Point


DSS at Hopper Loading Point


Water Suppression at Chute


DSS at Discharge Point


DSS at Hopper Loading Point


Pump House & Storage Tank

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 supress 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

Annexure 9

Advertisement of EC Copy on the Local Newspaper

•Annexure- 13

Date - 1-09-2015

JSW Steel Limited

Dolvi Works : Geetapuram, Dolvi Village - Pen, Dist : Raigad - 402 107, Maharashtra, India

CIN

Phone

Fax

Website www.jsw.in

PUBLIC NOTICE

Government of India, Ministry of Environment, Forest and Climate Change (I. A. Division), Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi - 110003 has accorded Environmental Clearance for Expansion of Integrated Steel Plant from 5 MTPA to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) to M/s. JSW Steel Ltd. at Geetapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra on 25th August, 2015.

The copy of this Environmental Clearance Letter is available with Maharashtra Pollution Control Board (MPCB) and at website of Ministry of Environment, Forest and Climate Change at http://moef.nic.in and company website www.jsw.in

Sd/-
M/s. JSW Steel Ltd.
Geetapuram, Village Dolvi,
Tehsil - Pen, District Raigad,
Maharashtra - 402 107.

Place : Dolvi
Date : 27/08/2015

Regd. Office : JSW Centre, Bandra Kurla Complex, Bandra (East) Mumbai - 400 051. Phone : +91 22 4286 1000

The Indian EXPRESS Tue, 01 September 2015

PUBLIC NOTICE

Government of India, Ministry of Environment, Forest and Climate Change (I.A. Division), Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi-110003 has accorded Environmental Clearance for Expansion of Integrated Steel Plant from 5 MTPA to 10 MTPA and Power Plant from 300 MW to 600 MW (Gas Based) to M/s JSW Steel Ltd. at Geetapuram, Village Dolvi, Tehsil pen, District Raigad in Maharashtra on 25th August, 2015.

The copy of this Environmental Clearance Letter is available with Maharashtra Pollution Control Board (MPCB) and at website of Ministry of Environmet, Forest and Climate Change at http://moef.nic.in and company website www.jsw.in

Place : Dolvi
Date : 27/08/2015

M/s. JSW Steel Ltd.
Geetapuram, Village Dolvi,
Tehsil-Pen, Dist- Raigad,
Maharashtra-402 107

जाहीर सूचना

भारत सरकार, पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालय (आय ए विभाग), पर्यावरण भवन, जोर बाग रोड, अली गंज, नवी दिल्ली ११०००३ यांच्याकडून मे. जे.एस.डब्ल्यू. स्टिल लिमिटेड, गीतापुरम गाव डोलवी, ता. पेण, जि. रायगड, महाराष्ट्र यांना दि. २५.०८.२०१५ रोजी एकीकृत लोह उत्पादन क्षमता पाच मेट्रीक टन प्रतिवर्षापासून दहा मेट्रीक टन विस्तारासहित आणि ३०० मेगावॅटपासून ६०० मेगावॅट वायू आधारित ऊर्जा प्रकल्प विस्तारास पर्यावरणाचे नाहरकत प्रमाणपत्र प्राप्त झाले आहे.

सदरच्या प्रमाणपत्राची प्रत पर्यावरण, वन आणि क्लायमेट चेंज मंत्रालयाच्या व त्यांच्या http://moef.nic.in या संकेत स्थळावर आणि महाराष्ट्र प्रदूषण नियंत्रण मंडळाकडे व कंपनीच्या www.jsw.in या संकेत स्थळावर पाहण्यासाठी उपलब्ध आहे.

स्थळ : डोलवी
दिनांक : २७.०८.२०१५

मे. जे.एस.डब्ल्यू. स्टिल लिमिटेड,
गीतापुरम, गाव-डोलवी,
ता. पेण, जि. रायगड,
महाराष्ट्र ४०२ १०७.

Copy of newspaper publication for EC