Six Monthly Compliance Status report of Environmental Clearance

ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT October 2024 to March 2025

Quality & Environment Control Department
JSW Green Steel Limited, Salav
(formerly Known as JSW Steel Limited,Salav Works)

COMPLIANCE OF CONDITIONS TO LETTER No ENV(NOC) 1088/1179/CR-224/D-I, Environment Department, Mantralaya, Bombay – 400032, Dated 8th June 1989

The status report on stipulated Environmental condition, - point-wise explanations are as follows.

S. NO	CONDITIONS	COMPLIANCE STATUS as on date 31st March 2025
i)	The company should give a commitment about tree plantation and also use of coal or kerosene only, by the workers during construction phase.	The company continues its commitment for the robust **tree plantation program** in line with environmental guidelines to enhance green cover around the project site. Suitable indigenous tree species is planted and maintained in consultation with the Forest Department to support biodiversity and environmental quality. Photographs of the greenbelt developed within the plant premises are enclosed as **Annexure-1**. Regarding fuel use, **only coal or kerosene** was used by the construction workforce, as directed. Importantly, the company has **strictly discontinued the use of kerosene** after the construction phase, in line with its environmental policy and evolving pollution control norms. Currently, the company uses only **cleaner fuels such as natural gas** for all operational activities. kerosene or coal is not being used in ongoing operations, and this commitment continues to be strictly adhere to maintained as part of our sustainable practices.
ii)	The project authorities must undertake preparation of comprehensive environmental impact statement pertaining to above subject to the satisfaction of the Environment department of the State Government.	We have duly prepared a comprehensive Environmental Impact Statement (EIS) covering all relevant environmental aspects related to the project. The EIS thoroughly assesses potential impacts on air quality, water resources, soil, biodiversity, noise levels, and socio-economic factors. The company commits to implementing all recommendations outlined in the EIS and to conducting regular monitoring to ensure environmental safeguards are effectively maintained throughout the project lifecycle.
iii)	Disaster management plan must be prepared and furnished to the Chief Inspector of Factories.	We have prepared a comprehensive Disaster Management Plan (DMP) in accordance with applicable statutory requirements and guidelines. The plan encompasses risk identification, emergency response procedures, resource allocation, roles and responsibilities, and communication protocols to effectively manage potential disasters on-site. The Disaster Management Plan was formally submitted to the **Chief Inspector of Factories** as required. Periodic drills and training sessions are conducted to ensure preparedness among employees and contractors. The DMP is reviewed and updated regularly to incorporate any operational

		changes or improvements in emergency management practices. Thus, the condition regarding preparation and submission of the Disaster Management Plan to the Chief Inspector of Factories is fully complied with.
iv)	A detailed green belt development plan for entire complex must be prepared and giving details of area to be afforested with indigenous tree species.	We have prepared and implemented a comprehensive Green Belt Development Plan covering the entire project complex. The plan includes detailed mapping of the designated green belt areas, specifying the total area allocated for afforestation. The afforestation program prioritizes **indigenous tree species** suitable for the local climate and soil conditions to ensure ecological balance and biodiversity conservation. The plan outlines species selection, planting density, maintenance schedules, and survival monitoring protocols. Currently, more than 75000 trees in green belt area have been developed as per the plan. Regular monitoring is conducted to assess tree survival rates, and necessary care also measures such as watering, pruning, and replacement planting are undertaken to maintain the green cover.
v)	An integrated plan indicating the measures to be adopted for control of air,water,noise and thermal pollution and disposal of solid wastes should be prepared to the satisfaction of the Maharashtra Pollution control Board.	We have developed and implemented a comprehensive **Integrated Pollution Control Plan** for addressing various environmental control measures such as in air, water, noise, and thermal pollution along with solid waste management, in accordance with the guidelines and standards prescribed by the **Maharashtra Pollution Control Board (MPCB)**. Key measures adopted include: • **Air Pollution Control:** Installation of dust suppression systems, use of pollution control equipment such as scrubbers and filters, and regular monitoring of particulate matter and gaseous emissions. • **Water Pollution Control:** Treatment of wastewater through onsite effluent treatment plants (ETPs) to meet discharge standards before release or reuse. • **Noise Pollution Control:** Deployment of noise barriers, use of low-noise equipment, and scheduling of high-noise activities during daytime hours to minimize disturbance. • **Thermal Pollution Control:** Cooling systems are designed to prevent thermal discharge into natural water bodies. • **Solid Waste Management:** Segregation of waste at source, proper storage, and disposal methods including recycling, reuse, and safe landfill practices as per MPCB norms. Photographs of the air pollution control systems deployed at

		various locations within the facility are respectfully submitted as **Annexure-2** for your kind reference. Report of Ambient Noise Quality monitoring has been carried out by MoEFCC Gazetted & NABL accredited agency is enclosed as **Annexure-3** for your kind reference. The integrated plan was submitted after satisfying all statutory and technical requirements. Continuous environmental monitoring is conducted, and reports are periodically submitted to MPCB to ensure ongoing compliance.
vi)	All emissions and discharges from the plant should meet the standard prescribed by the State pollution Control Board.	We have strictly adhered to the standards and limits prescribed by the **Maharashtra Pollution Control Board (MPCB)** for all emissions and discharges from the plant. Continuous monitoring systems have been installed to measure air emissions, wastewater discharges in real-time or through regular sampling. The results consistently show compliance with the prescribed limits for parameters such as particulate matter, gaseous pollutants, chemical oxygen demand (COD), biological oxygen demand (BOD), and other relevant indicators. A screenshot of the Real-time Effluent Quality Monitoring System (EQMS) dashboard is enclosed as **Annexure-4** for your kind reference. Periodic reports documenting monitoring results are submitted to the MPCB as per regulatory requirements. Report of Effluent Quality monitoring has been carried out by MoEFCC Gazetted & NABL accredited Agency is enclosed as **Annexure-5** for your kind reference.
vii)	Ambient air quality monitoring station must be setup for continuous monitoring of SPM, SO2.NOx, CO and Hydrocarbons in consultation with MPCB.	We have established a fully operational of 03 Nos **ambient air quality monitoring station** at out plant premises in consultation with the **Maharashtra Pollution Control Board (MPCB)**. The monitoring station continuously measures key air pollutants including **Respirable Suspended Particulate Matter (RSPM)**, **Sulphur Dioxide (SO_2)**, **Nitrogen Oxides (NO_x)**, **Carbon Monoxide (CO)**, as per the prescribed guidelines. A screenshot of the Real-time Continuous Ambient Air Quality Monitoring System dashboard is enclosed as **Annexure-6** for your kind reference. Data collected is regularly analyzed and documented. The results consistently comply with the ambient air quality

		standards set by MPCB and Central Pollution Control Board (CPCB). Monitoring reports are submitted periodically to the MPCB to demonstrate ongoing compliance. The monitoring system is regularly maintained by competent third party and calibrated routinely to ensure data accuracy and reliability. Report of Ambient Air Quality Monitoring carried out by MoEFCC Gazetted & NABL accredited Agency is enclosed as **Annexure-7** for your kind reference.
viii)	All stacks in various ports must be provided with stack monitoring devices. Stack monitoring reports should regularly furnished to MPCB.	The company has installed **stack monitoring devices** on all stacks located across the various ports/facilities as mandated. These devices continuously monitor emissions parameters to ensure compliance with the prescribed emission standards. Regular stack emission monitoring is conducted by MoEFCC gazetted & NABL Accredited third party agency. The monitoring reports are systematically prepared and submitted to the **Maharashtra Pollution Control Board (MPCB)** as per the specified schedule. A screenshot of the Real-time Online Continuous Emission Monitoring System (OCEMS) dashboard is enclosed as **Annexure-8** for your kind reference. The company maintains detailed records of monitoring data and any corrective actions taken in case of deviations. The continuous emission monitoring systems (CEMS) are periodically maintained and calibrated to ensure accuracy and reliability of data. Report of Stack Emission Monitoring carried out by MoEFCC Gazetted & NABL accredited Agency is enclosed as **Annexure-9** for your kind reference. This proactive approach ensures that all stack emissions consistently meet the regulatory standards and demonstrates the company's commitment to environmental compliance.
ix)	Fuel oil low sulphur heavy stack grade alone should be used	The company strictly complies with this condition by using **only natural gas** for all production activities. No fuel oil or any other fuel types are being used in the plant operations. Use of natural gas, a cleaner fuel, ensures reduced emissions of sulphur oxides (SOx) and other pollutants, thereby contributing to improved air quality and compliance with environmental norms. Continuous monitoring confirms that fuel usage is limited to natural gas, and no deviation from this practice has been observed.

x)	Transportation of raw material from high seas to Jetty near plant site by Ropeway is not permitted.	The company fully complies with this condition. Currently, raw materials are transported from the jetty to the plant site using a **4 km long conveyor belt system**. The conveyor belt system is an efficient and environmentally friendly mode of transport that eliminates the need for ropeway transport from jetty to plant, which is explicitly not permitted. This system minimizes dust generation, reduces vehicular traffic, and ensures safe and continuous movement of materials. Regular maintenance and monitoring of the conveyor system are carried out to ensure operational efficiency and environmental safety. Thus, the company adheres strictly to the condition by not using ropeway transport and instead utilizing the approved conveyor belt system.
xi)	The company should obtain the permission from the Public Works Department for transporting of raw material having capacity for 1000 metric tones below existing bridge at Revadanda. Till the permission is granted by PWD ,the company should transport its material through barges having capacity of 500 tonnes.	The company acknowledges the requirement to obtain permission from the Public Works Department (PWD) for transporting raw materials exceeding 1000 metric tonnes capacity below the existing bridge at Revdanda. Currently, no barges are used to transport raw materials across the bridge, as the company has implemented a **4 km long conveyor belt system** for conveying materials from the jetty to the plant site, in full compliance with the condition prohibiting barge transport until PWD permission is granted. This conveyor system effectively eliminates the need for barge transport and associated permissions, thereby ensuring uninterrupted, safe, and environmentally responsible material handling.
xii)	The company shall give undertaking to the Public Works Department for additional cost that will have to be incurred by Public Works Department if any, for protecting the existing pylons of the bridge by making additional fendering arrangement to absorb additional impact likely to be created by use of higher tonnage barges of 1000 metric tones capacity.	The company acknowledges the requirement of formal undertaking to the Public Works Department (PWD) agreeing to bear any additional costs that may be incurred by PWD for protecting the existing pylons of the Revdanda bridge by installing and maintaining additional fendering arrangements. These measures are intended to absorb the potential impact caused by higher tonnage barges (1000 metric tonnes capacity), if such barges are used. However, transportation of raw materials by barges crossing below the bridge is **strictly prohibited**, as the company currently employs a **4 km long conveyor belt system** from the jetty to the plant site. This conveyor system eliminates the need for any barge movement below the bridge, thereby ensuring compliance with the prohibition on barge transport across the bridge.

xiii)	All the effluent discharge stream from the proposed plant should be monitored for pH, flow, suspended solids, oil and grease, dissolved iron, trace elements, cyanides etc. Similarly, ground water from project site should regularly monitored for its physio-chemical characteristics and reports furnished regularly to the Maharashtra Pollution Control Board	We have established a comprehensive **effluent monitoring program** for all discharge streams from the plant. Monitoring parameters include pH, flow rate, suspended solids, oil and grease, dissolved iron, trace elements, and other relevant pollutants as per MPCB guidelines. Effluent samples are collected and analyzed at MoEFCC & NABL accredited laboratory at regular intervals to ensure compliance with the prescribed discharge standards. Records of monitoring data and analysis reports are systematically maintained. Report of Effluent Quality monitoring carried out by MoEFCC Gazetted & NABL accredited Agency is enclosed as **Annexure-5** for your kind reference. Monitoring reports are prepared and submitted periodically to the **Maharashtra Pollution Control Board (MPCB)** as per the regulatory schedule. This proactive environmental monitoring program ensures compliance with applicable standards and early detection of any deviations for timely corrective action
xiv)	The terms and condition stipulated by the Maharashtra Pollution Control Board in its consent order should be strictly complied and inform the compliance of these conditions before commencement of production to MPCB	We acknowledge the importance of adhering strictly to all terms and conditions stipulated by the Maharashtra Pollution Control Board (MPCB) in its Consent to Operate (CTO) order. All conditions specified in the MPCB consent order have been reviewed, understood, and implemented accordingly. Relevant systems, processes, and infrastructure have been established to ensure full compliance with emission limits, effluent discharge standards, pollution control measures, and monitoring requirements. Prior to the commencement of production, the company submitted a detailed compliance report to the MPCB confirming that all consent conditions have been met satisfactorily. The company remains committed to ongoing compliance and timely submission of monitoring data and reports to MPCB as part of its environmental management practices. All the relevant stipulations made by MPCB are being complied.

xv)	Tree plantation programme should be undertaken as indicated in the consent letter granted by Maharashtra Pollution Control Board on the factory land, in consultation with the Forest Department of the State Government.	We have implemented the tree plantation program as stipulated in the consent letter issued by the Maharashtra Pollution Control Board (MPCB). The plantation activities have been carried out on the factory land ensure selection of appropriate indigenous species and adherence to ecological guidelines. Periodic monitoring and maintenance activities such as watering, pruning, and replacement planting are conducted to ensure the healthy growth and survival of the planted trees. Photographs of the greenbelt developed within the plant premises are enclosed as **Annexure-1.**

Green-Belt Within the Plant Premises


26/05/2025 16:50


JSW Green Steel Limited
26/05/2025 16:50


26/05/2025 16:54


26/05/2025 16:55

Air Pollution Control System Deployed in the Facility

Cyclone & Wet Scrubber

Sprinklers Along the Road side

Sprinklers for Dust Suppression at truck unloading station

Road Sweeping Machine

Annexure-3

Noise monitoring report

JSW Green Steel Limited (Formerly Known As JSW Steel Ltd,Salav Works)												
AMBIENT NOISE MONITORING REPORT												
Oct-24 to Mar-25												
LOCATION	**Near Main Gate**		**Near Lab**		**Near Material Handling Area**		**Near Work Shop**		**Near Cooling Tower**		**Near Auto Shop**	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
Oct-24	63.5	58.4	65.2	62.2	68.8	60.5	64.3	62.0	71.5	67.1	59.8	57.6
Nov-24	65.3	60.8	64.4	59.3	63.6	58.2	67.2	60.2	70.3	63.3	64.5	59.2
Dec-24	64.3	61.1	65.1	60.2	64.2	61.5	69.4	59.1	71.2	64.3	65.6	57.5
Jan-25	63.4	60.3	65.5	63.4	70.2	67.8	67.6	62.7	71.8	65.3	66.7	60.7
Feb-25	63.7	59.8	66.2	62.9	68.2	62.2	70.5	66.8	71.4	64.7	66.3	59.5
Mar-25	64.2	58.6	65.7	63.1	67.9	62.8	71.8	68.1	69.6	63.5	67.1	58.6

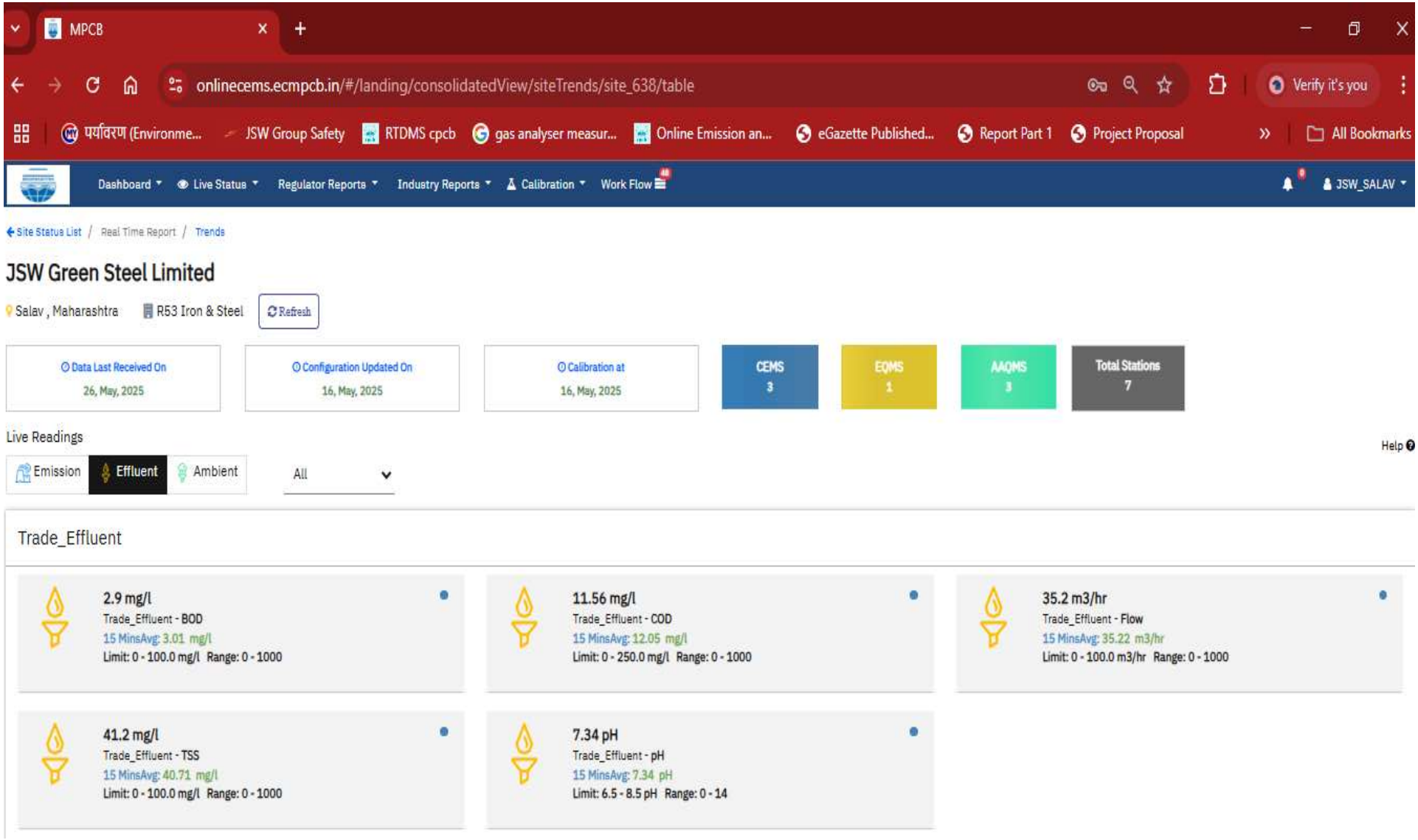
JSW Green Steel Limited (Formerly Known As JSW Steel Ltd,Salav Works)												
AMBIENT NOISE MONITORING REPORT												
Oct-24 to Mar-25												
LOCATION	**Near Material Gate**		**Near Admin. Building**		**Near CO2 Plant**		**Near Final Discharge Point of Effluent**		**Near Union Office**		**At Jetty**	
Month	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**	**Day**	**Night**
Oct-24	64.4	63..2	59.6	52.0	70.3	68.5	60.3	58.4	64.4	62.3	67.3	57.2
Nov-24	63.6	58.3	66.7	61.6	68.3	62.7	61.4	58.9	62.3	59.2	67.3	56.2
Dec-24	64.8	61.7	62.1	58.2	69.1	63.1	60.5	56.8	61.6	55.5	66.9	54.5
Jan-25	67.4	62.6	58.3	53.3	73.8	68.4	61.3	60.5	66.2	58.8	68.6	62.3
Feb-25	65.8	61.7	57.5	52.9	73.4	62.5	60.6	59.8	65.7	58.2	66.4	62.1
Mar-25	64.3	62.5	56.8	53.4	72.5	61.2	61.3	60.5	64.1	57.8	67.8	63.7

Monitoring Carried Out by M/S Ultra Tech Environmental Consultancy and Laboratory Pvt Ltd.

Prepared By:	Vinay Sachan

Checked By:	Sudhir J Mhatre

Real-Time Effluent Quality Monitoring System Dashboard



JSW Green Steel Limited (Formerly Known As JSW Steel Ltd,Salav Works)

INDUSTRIAL EFFLUENT QUALITY MONITORING REPORT

Oct-24 to Mar-25

Parameter	pH	SS	BOD	COD	Oil & grease	Fe	Zn	PO4
Unit		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Consented Limit	6.0-8.5	100	30	250	10	5	1	5
Month								
Oct-24	7.8	13	7.1	29	<2	0.15	0.03	0.05
Nov-24	8.1	18	5.5	25	<2	0.14	0.03	0.06
Dec-24	8.2	16	6.6	30	<2	0.13	0.03	0.07
Jan-25	8.1	14	5.9	26.5	<2	0.14	0.03	0.06
Feb-25	8.3	11	6	28	<2	0.16	0.03	0.05
Mar-25	8.4	13.3	6.6	30.6	<2	0.13	0.03	0.04

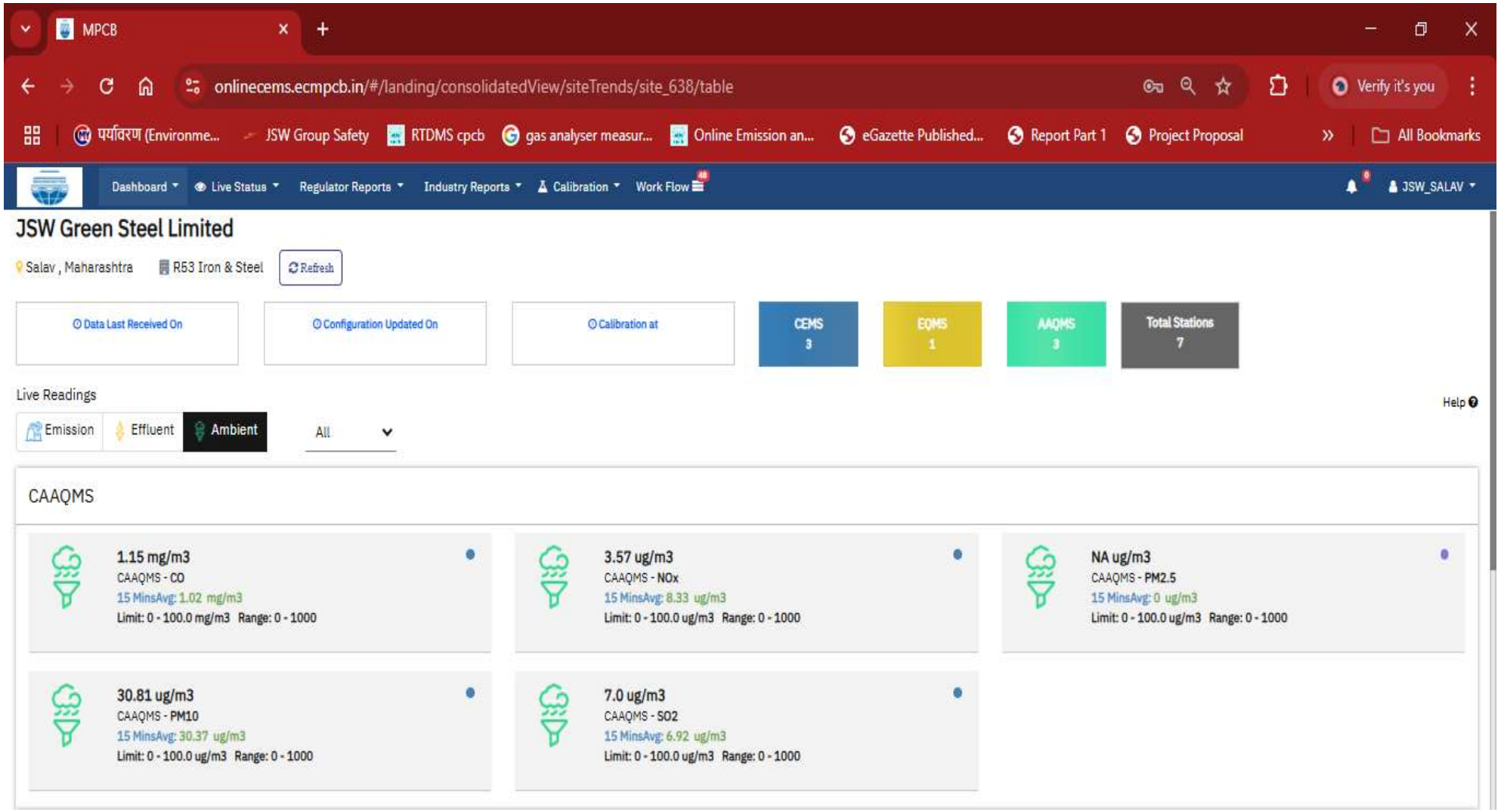
Monitoring Carried Out by M/S Ultra Tech Environmental Consultancy and Laboratory Pvt Ltd.

Prepared By:	Vinay Sachan

Checked By:	Sudhir J Mhatre

Annexure-6

Real-Time Continuous Ambient Air Quality Monitoring System Dashboard



Continue…

CAAQMS2

0.92 mg/m3
CAAQMS2 - CO
15 MinsAvg: 0.92 mg/m3
Limit: 0 - mg/m3 Range: 0 - 500

0.83 ug/m3
CAAQMS2 - NO
15 MinsAvg: 0.84 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

7.34 ug/m3
CAAQMS2 - NO2
15 MinsAvg: 7.75 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

8.14 ug/m3
CAAQMS2 - NOx
15 MinsAvg: 8.59 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

18.48 ug/m3
CAAQMS2 - PM2.5
15 MinsAvg: 15.73 ug/m3
Limit: 0 - ug/m3 Range: 0 - 1000

13.49 ug/m3
CAAQMS2 - PM10
15 MinsAvg: 14.26 ug/m3
Limit: 0 - 100.0 ug/m3 Range: 0 - 1000

5.71 ug/m3
CAAQMS2 - SO2
15 MinsAvg: 4.45 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

CAAQMS3

1.43 mg/m3
CAAQMS3 - CO
15 MinsAvg: 1.45 mg/m3
Limit: 0 - mg/m3 Range: 0 - 500

0.93 ug/m3
CAAQMS3 - NO
15 MinsAvg: 0.97 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

5.96 ug/m3
CAAQMS3 - NO2
15 MinsAvg: 6.35 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

6.89 ug/m3
CAAQMS3 - NOx
15 MinsAvg: 7.33 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

1.25 ug/m3
CAAQMS3 - PM2.5
15 MinsAvg: 3.74 ug/m3
Limit: 0 - ug/m3 Range: 0 - 1000

8.66 ug/m3
CAAQMS3 - PM10
15 MinsAvg: 12.21 ug/m3
Limit: 0 - ug/m3 Range: 0 - 1000

6.64 ug/m3
CAAQMS3 - SO2
15 MinsAvg: 6.77 ug/m3
Limit: 0 - ug/m3 Range: 0 - 500

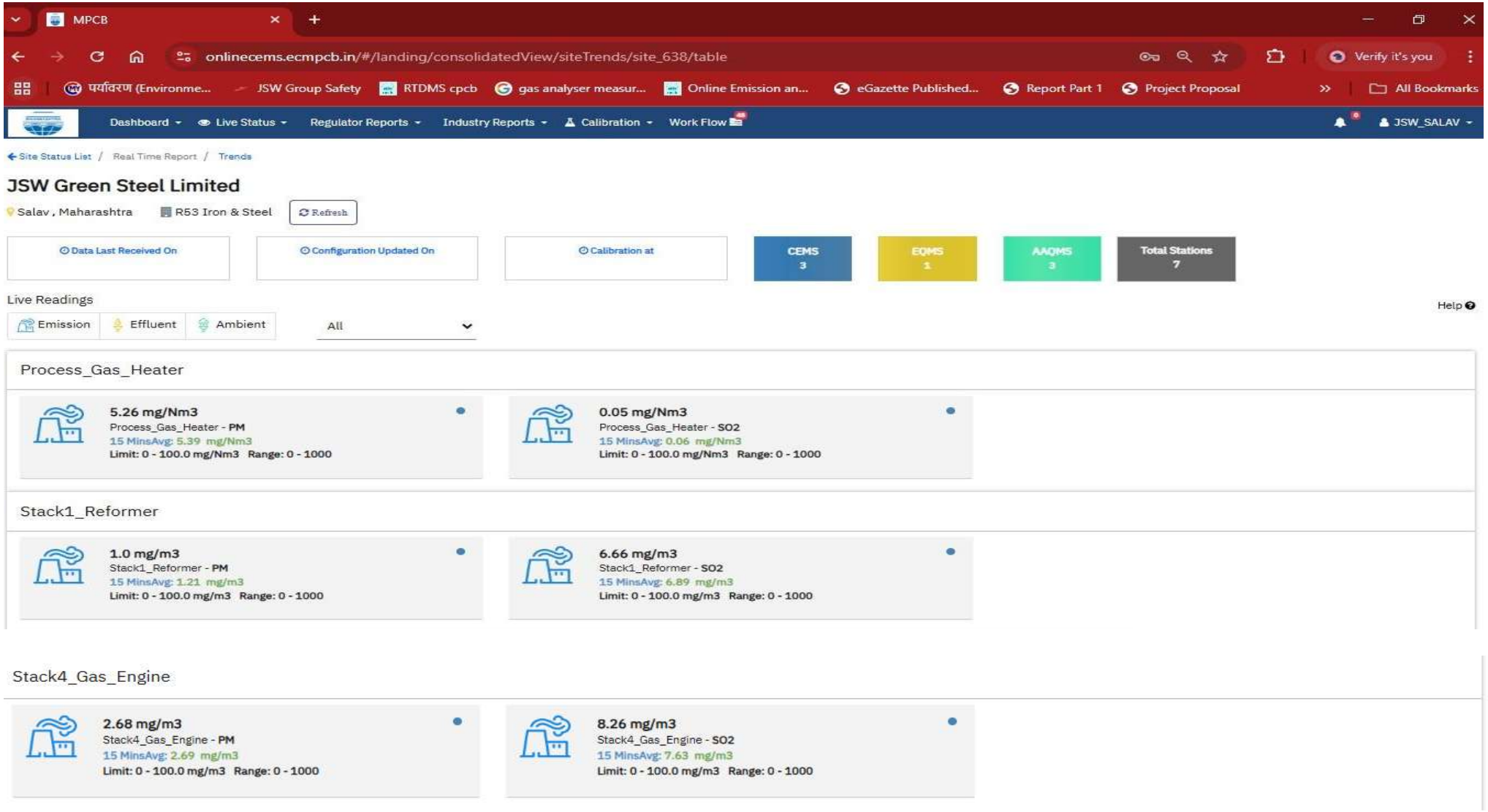
JSW Green Steel Limited (Formerly Known As JSW Steel Ltd,Salav Works)												
AMBIENT AIR QUALITY MONITORING REPORT												
Oct-24 to Mar-25												
Location	Q&EC Terrace				MH Area				Auto shop			
Parameter	PM_{10}	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x
Norms	100	60	80	80	100	60	80	80	100	60	80	80
Unit / Month	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Oct-24	44.5	18.5	5	19	45	16	5	20	43	20	5	19
Nov-24	59	40	5	20.5	64	43	5	25	62	41	5	24
Dec-24	69	42	5	18	76	45	5	22	77	43	5	20
Jan-25	60	32.5	5	18.5	71	40	5	22	72	38	5	21
Feb-25	64	33	5	23.5	64	32	5	22	62	34	5	17
Mar-25	60	30	5	22	60	29	5	20	58	31	5	16

JSW Green Steel Limited (Formerly Known As JSW Steel Ltd,Salav Works)												
AMBIENT AIR QUALITY MONITORING REPORT												
Oct-24 to Mar-25												
Location	Admin Building				Near Union Office				At Jetty			
Parameter	PM_{10}	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x	PM_{10}	$PM_{2.5}$	SO_2	NO_x
Norms	100	60	80	80	100	60	80	80	100	60	80	80
Unit / Month	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Oct-24	42	18	5	20	48	18	5	22	38	16	5	21
Nov-24	52	35	5	25	58	39	5	19	55	37	5	22
Dec-24	62	38	5	26	66	39	5	19	72	44	5	21
Jan-25	60	31	5	22	66	33	5	16	68	37	5	21
Feb-25	54	29	5	19	69	38	5	21	66	35	5	21
Mar-25	50	26	5	17	65	35	5	20	62	27	5	19
Monitoring Carried Out by M/S Ultratech Environmental Consultancy and Laboratory Pvt Ltd.												

Prepared By:	Vinay Sachan

Checked By:	Sudhir J Mhatre

Real-Time Online Continuous Emission Monitoring System Dashboard



JSW Green Steel Limited (Formerly Known As JSW Steel Ltd, Salav Works)									
STACK EMISSION MONITORING REPORT									
Oct-24 to Mar-25									
Stack	**Reformer**			**Process Gas Heater**			**Gas engine**		
Parameter	**PM**	**SOx**	**NOx**	**PM**	**SOx**	**NOx**	**PM**	**SOx**	**NOx**
Unit	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**	**mg/NM^3**
Consented Limit / **Month**	**50**	**250**	**200**	**50**	**250**	**200**	**50**	**250**	**200**
Oct-24	2	5	20	3	5	32	3	5	10
Nov-24	4	5	20	2	5	27	3	5	22
Dec-24	3	5	22	4	5	32	2	5	10
Jan-25	2	5	23	4	5	26	3	5	12
Feb-25	3	5	18	5	5	34	2	5	14
Mar-25	2	5	20	5	5	32	3	5	15

Monitoring Carried Out by M/S Ultra Tech Environmental Consultancy and Laboratory Pvt Ltd.

Prepared By:	Vinay Sachan

Checked By:	Sudhir J Mhatre

Clarifier-ETP 5800 M^3

CAAQMS