JSW Steel Limited

JSWSL/ENVT/MoEF&CC/HYR/2025-26/104
22th November 2025

To
The Director
Regional office
Ministry of Environment Forest and Climate Change
1st Floor, Additional office block for GPOA,
Shastri Bhawan, Haddows Road,
Nungambakkam, Chennai -600006

Dear Sir,

Sub: JSW Steel Ltd., Salem Works - EC- Six Monthly Compliance Status Report submission for the period April 2025 - September 2025 - Reg.

Ref: Environmental Clearances F. No. J-11011/281/2006-IA. II(I) dated 07.07.2017, EC amendment dated 07.08.2019, EC Value addition dated 10.02.2020 and EC Split dated 20.05.2025 reg.

With reference to the above subject, we are hereby enclosing the six-monthly condition compliance status report of the Environmental Clearances issued by your good office on 07.07.2017, 07.08.2019, 10.02.2020 and 20.05.2025 for the period of April 2025 to September 2025.

We kindly request you to acknowledge the receipt of this letter for our records.

Thanking you,

Yours faithfully,

For JSW Steel Limited., Salem Works

B N S Prakash Rao
EVP- Plant Head

Encl: Conditions compliance status report for the period April 2025 to September 2025

Cc: Regional Directorate, Central Pollution Control Board, Chennai, Tamil Nadu -58

The Member Secretary, Tamil Nadu Pollution Control Board, Chennai – 600 032.

The Joint Chief Environmental Engineer (M), TNPCB, Salem – 636 004

Salem Works
P.O. Pottaneri, Mecheri,
Mettur - Tk, Salem - Dt. Pin : 636 453
Tamilnadu, India.
CIN No L27102MH1994PLC152925
T +91 4298 272000
www.jsw.in

Registered Office
JSW Centre
Bandra Kurla Complex
Bandra East, Mumbai 400 051
T +91 22 4286 1000
F +91 22 4286 3000

O P Jindal Group

HALF YEARLY ENVIRONMENT CLEARANCE (EC) CONDITION COMPLIANCE REPORT

JSW STEEL LIMITED., SALEM WORKS

1.3 MTPA INTEGRATED STEEL PLANT

POTTANERI (P.O.), MECHERI, METTUR (TK.), SALEM (DT.)

TAMIL NADU, INDIA- 636453

Reporting Period: April 2025 to September 2025

Submitted to

REGIONAL OFFICE, MoEF&CC
Shastri Bhawan, Haddows road, Nungambakkam,
Chennai -600006

REGIONAL DIRECTORATE, CPCB,
Ambattur Industrial Estate Road, Mogappair,
Chennai, Tamil Nadu -58

JCEE (M), TNPCB, SALEM REGION,
Fairlands, Salem – 636016

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Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/TN/IND1/458028/2024
Compliance ID	572411778
Compliance Number(For Tracking)	EC/M/COMPLIANCE/572411778/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	26-11-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/TN/IND/104947/2019
Compliance ID	101118647
Compliance Number(For Tracking)	EC/M/COMPLIANCE/101118647/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	24-11-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/TN/IND/26508/2015
Compliance ID	110823000
Compliance Number(For Tracking)	EC/M/COMPLIANCE/110823000/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	25-11-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/TN/IND/26508/2015
Compliance ID	110789967
Compliance Number(For Tracking)	EC/M/COMPLIANCE/110789967/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	25-11-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

COMPLIANCE STATUS REPORT TO THE EC DATED.20.05.2025

A. Specific Conditions		
Sl. No	**Condition**	**Compliance Status**
i.	M/s. JSWSL, being principal lessor shall be held responsible for compliance of all the conditions stipulated in EC dated 10.02.2020.	Agreed to Comply
ii.	The PP shall ensure that both the entities shall have relevant permissions related to land, EC/FC/CTE/CTO, as may be applicable to them, along with associated permissions required to operate such facilities. They shall maintain separate records of the finished products and raw materials for each facility at their respective gates	Agreed to Comply
iii.	The PP shall have clear-cut demarcation of process areas and provide separate entry/exit gates. In case, common infrastructure is used for transportation of raw materials or products/ accessibility by employees, then a MOU between the entities may be undertaken clearly indicating the entity holding responsibility for the common infrastructure.	Agreed to Comply
iv.	The PP shall ensure that there shall be sign boards at prominent locations covering name, capacity and area of the operating units within the JSW Complex along with EC/CFO details.	Agreed to Comply
v.	The PP shall comply with the condition for development and maintenance of greenbelt in at least 33% area of the JSW complex as principal lessor.	Being Complied. JSW Salem Works has green cover to the extent of approximately 91 hectares, comprising around 34% of the total land area.
vi.	The PP shall widely publicize the executive summary of the EC split proposal and publish the split ECs in local newspapers within 15 days of grant.	Complied. The public notice regarding the Environmental Clearance was published in two widely circulated local newspapers Dinamani (Tamil is the vernacular language) and The Indian Express on 03.06.2025. Copy of advertisement is annexed as Annexure 1.
vii.	Both the entities i.e. JSWSL and JSWCL shall undertake Village Adoption programme in consultation with the District Administration.	Being Complied. As per Village Adoption Plan submitted to your good office, implementation started & status report attached along with CSR ESC report as Annexure 11
viii.	The PP shall withdraw the existing EC amendment application and submit a fresh application post-splitting to incorporate all necessary aspects,	Agreed to Comply. As per EAC direction the EC amendment application has been withdrawn.

	including new EC post splitting. The amendment shall be obtained at the earliest.	Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application freshly.
ix.	JSWSL and JSWCL shall strictly comply with the commitments made during EAC appraisal, including additional PH Action Plan.	Agreed to Comply
x.	Any future expansion or modernization of the 0.8 MTPA Slag Grinding Unit beyond the threshold limits specified in the EIA Notification, 2006, and its amendments shall require obtaining ToR and conducting a Public Hearing, as prescribed.	Agreed to Comply
xi.	All the other terms and conditions stipulated in environmental clearance vide letter dated 10.02.2020 shall remain unchanged.	Agreed to Comply
xii.	The PP shall install the requisite number of CAAQMS linked with CPCB server at designated places.	Agreed to Comply. 04 Nos. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed & the real time parameters are connected to Care Air Centre of TNPCB. Further as instructed by EAC a CAAQMS station will be installed in the JSW Cement Plant premises by JSW Cement Ltd.

COMPLIANCE STATUS REPORT TO THE EC DATED.10.02.2020

A. Specific Conditions		
Sl. No	**Condition**	**Compliance Status**
i.	Particulate emission from the rod mill of slag grinding unit shall be less than 10 mg/Nm^3.	Being Complied. The GGBFS is a blast furnace slag grinding facility at JSW Salem Works, is operational since May 2022 which is equipped with a bag filter for emission control. TNPCB's latest survey confirms particulate emissions at 8 mg/Nm^3, meeting regulatory standard. Please refer Annexure 2 of this report. Now, the facility has been transferred (EC dated 20.05.2025) to JSWCL and hence the condition will not be applicable to JSWSL.
ii.	Green belt shall be developed in an area of 85 ha (210 acres) in and around the plant in a time frame of two years.	Complied. JSW Salem Works has enhanced its green cover to approximately 91 hectares, comprising around 34% of the total land area. With a tree survival rate ranging between 85–90%, However, a comprehensive tree count study is under progress and expert ecologist from local university are engaged for the same. this reflects our commitment towards environmental stewardship. Photographs of the greenbelt are enclosed as Annexure 3
B. General Conditions		
I. Statutory Compliance		
Sl. No	**Condition**	**Compliance Status**
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.	Complied. We have obtained CTO under Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974. The CTO, granted by the Tamil Nadu Pollution Control Board (TNPCB) is valid until March 31, 2026 for Steel plant and upto 31.03.2027 for CPP.
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.	Being Complied. We have obtained NOC from concerned department for drawl of ground water (80 KLD) which is only for domestic application. We have submitted the renewal application to PWD & acknowledgment of the application is attached as Annexure 4 to this report.
iii.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied. We have obtained authorization from TNPCB under Hazardous and other Waste Management Rules, 2016. This authorization is valid until March 31, 2026.

II. Air quality monitoring and preservation		
i.	The project proponent should install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards II. Air Quality Monitoring and Preservation 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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Being Complied. We have installed 32 nos. of dust analyzers (both in process and non-process stacks) & 24 nos. of gaseous emission monitoring systems as per the applicability and the real time data of SPM, SO2, NOx and CO are transmitted to the Care Air Centre of TNPCB and CPCB servers. Air Quality Monitoring is being done by TNPCB biannually and Manual monitoring is conducted by a NABL accredited external laboratory (Air quality as applicable to the Integrated iron and Steel plant, Thermal Power Plant) on a monthly basis and report submitted to SPCB. Latest report of TNPCB survey and Monthly Environment monitoring reports are given in Annexure 2 & 5
ii.	The project proponent shall monitor fugitive emissions in the plant premised at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Being Complied. In compliance with the Environment (Protection) Rules, 1986, as outlined in G.S.R. 277(E) dated March 31, 2012, for Integrated Iron & Steel plants and S.O. 3305(E) dated December 7, 2015, for Thermal Power Plants, We conduct monthly monitoring of fugitive emissions. This monitoring is performed by an external laboratory accredited by NABL & MoEF&CC while the Tamil Nadu Pollution Control Board (TNPCB) conducts biannual surveys. The fugitive emission levels are consistently within the prescribed standards. Please refer Annexure 5
iii.	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NO_x in reference to 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 angle of 120° each), covering upwind and downwind directions.	Complied. In consultation with the Tamil Nadu Pollution Control Board (TNPCB), 4 No. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed within the plant premises at locations where the maximum ground-level concentrations of PM10, PM2.5, SO2, and NOx occur. The real time parameters are connected to Care Air Centre of TNPCB
iv.	The cameras shall be installed at suitable locations for 24x7 recording of	Being Complied. There are 03 no. of coke oven batteries installed adjacent to each

	battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings.	other in the Coke Oven Plant. An IP camera has been installed on the top of the COP area to monitor battery emissions on the both sides with recording option and the minimum preservation time is one month.
v.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Complied. Sampling facilities at process stacks and quenching towers are provided for manual monitoring of emissions as per the guidelines issued by CPCB. JSW Salem Works equipped with wet quenching at COP.
vi.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results 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.	Being Complied. Monthly summary report of continuous stack emission and ambient air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions are being submitted along with six monthly compliance reports to Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB. Please refer Annexure 2 & 5 The last six monthly compliance report submitted to MoEF&CC on 28.05.2025.
vii.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied. Adequate Air Pollution Control measures are installed in the respective process and raw material handling areas. Water sprinklers, dry & wet fog systems, GI sheets (as dust barrier) tyre washing unit are provided in raw material handling areas to control fugitive emission. The details of APC installed are given in Annexure 6
viii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Being Complied. We have installed appropriate leakage detection systems like DP meters and mechanized bag cleaning like auto timer based cleaning system facilities are provided in respective bag filter systems.
ix.	Secondary emission control system shall be provided at SMS converters.	Complied. JSW Salem Works not installed with SMS Converters. However, Dedicated secondary de-dusting systems at Energy Optimizing Furnace (EOF) & Ladle Refining Furnace (LRF) installed to control the secondary emission.
x.	Pollution control system in the steel plant shall be provided as per the CREP guidelines of CPCB.	Complied. As per the CREP guidelines of CPCB, Pollution control systems are provided. Please refer Annexure 7
xi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, and roofs regularly.	Complied. 3 No. of road sweeping machines dedicatedly for road cleaning applications and Mobile vacuum cleaners are also provided to clean shop floors, roofs

		regularly. The dust collected from the road sweeping machines is used in Sinter Plant.
xii.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	Being Complied. Sinter Plant is functioning as Wealth from waste and Iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices are reused in the sinter plant for agglomeration processes which is direct replacement to the Iron Ore.
xiii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Being Complied. A Standard Operating Procedure IMSW/PS/ENV/24 has been developed to avoid spillage and leakage. Trucks/dumpers carrying coal and other raw materials are covered with tarpaulin. Leak proof trucks are used for fly ash transportation and other materials.
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).	Being Complied. We have installed a closed conveyor system for coking coal charging to stamping station. Dedicated coal charging and coke pushing systems are installed to avoid any spillage of coal and coke. There is a periodical cleaning schedule to ensure in case of any minor spillages.
xv.	Land-based APC system shall be installed to control coke pushing emissions.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
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.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.

xvii.	Vapor absorption system shall be provided in place of vapor compression system for cooling of coke oven gas in case of recovery type coke ovens.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
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.	Not Applicable. In this regard EC amendment proposal submitted vide proposal no. IA/TN/IND1/517407/2025 dated 06.01.2025 to MoEF&CC. An EDS has been raised by Ministry asking to coduct techno economic feasibility study through reputed national institutes & M/s CIMFR has undertaken the study. With reference to MoM dated 10.02.2025 of 73rd Expert Appraisal Committee (Industry-1 Sector) EC amendment application has withdrawn.
xix.	The coke oven gas shall be subjected to desulphurization if the Sulphur content in the coal exceeds 1%.	Complied. The coal usage in coke oven contains Sulphur content less than 1%.
xx.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Complied. GI sheets cover (as dust barrier), wind nets, water sprinkler systems and dry/wet fog systems are provided around the raw material stock piles to minimize the fugitive emissions.
xxi.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil cellars.	Being Complied. Ventilation system for adequate air changes for all tunnels, motor houses, Oil cellars are being complied as per the CEIG rules.
xxii.	The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace and SMS converter.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.

xxiii.	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
III. Water Quality Monitoring and Preservation		
Sl. No	**Condition**	**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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied. We have installed electromagnetic flow meters (EMFM) at multiple water consumption, monitoring points to continuously track effluent flow. The real-time flow data is directly connected to TNPCB and CPCB servers. A dedicated EMFM is also installed at the effluent treatment plant (ETP) discharge point, along with an IP camera equipped with PTZ functionality, ensuring there is no overflow of trade effluent from the guard pond. All analyzers meet standards for the Iron & Steel and Thermal Power Plant sectors, and EMFM units and sensors are calibrated according to supplier specifications. Groundwater quality around the plant is monitored biannually by TNPCB and an NABL-accredited laboratory. Additionally, piezometric sampling bore wells within the plant premises are regularly monitored by an NABL-accredited lab on a monthly basis.
ii.	The project proponent shall submit 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 of CPCB and Regional Office of	Being Complied. Monthly summary reports of continuous effluent monitoring, results of manual effluent testing and manual monitoring of ground water quality by TNPCB & NABL accredited laboratory are being submitted to the Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with the six-

	SPCB along with six-monthly monitoring report.	monthly monitoring report. Please refer Annexure 8
iii.	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R. 277(E) dated 31st March 2012 (Integrated iron & Steel); G.S.R. 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plant) as amended from time to time.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application
iv.	Adhere to 'Zero Liquid Discharge'	Being Complied. We have established Zero Effluent Discharge system and wastewater generated from the various processes of steel and Thermal Power Plant is collected in a guard pond at steel plant premises and treated wastewater is 100% reused in steel plant for secondary applications as per the CTO under water act. To treat the effluent arising out of the pickling plant and etching lab a dedicated ETP with the facility of Pretreatment, Ultra filter, Multistage RO plant, MEE and ATFD installed. The treated wastewater is reused in pickling process and etching lab.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Being Complied. Sewage Treatment Plants are provided for treatment of domestic wastewater and treated water is meeting the prescribed standards. Treated water sample is being collected by TNPCB & NABL accredited laboratory on monthly basis and the results are well within the prescribed standards. Please refer Annexure 8
vi.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied. Various collection pits are provided to arrest the run-off and ensure there is no water pollution due to surface run off.
vii.	Tyre washing facilities shall be provided at the entrance of the plant gates.	Complied. A Tyre washing unit is provided at the north entrance of the plant to control the fugitive emission from vehicular movement.

viii.	CO_2 injection shall be provided in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated water for converter gas cleaning.	Being Complied. We are using treated wastewater as makeup for gas cleaning unit (GCP) where the pH is about 6.5 -7.0 and hence alkalinity of existing circulating water is under control. Hence addition of CO2 injection is not anticipated.
ix.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied. We have implemented a comprehensive rainwater harvesting system, comprising four strategically located ponds designed to maximize water conservation. Two of these ponds are located near the township on the eastern side, with storage capacities of 17,500 KL and 1,08,000 KL, respectively. Within the plant premises, one pond near the RO plant area has a capacity of 15,000 KL, while another situated behind the guest house can store 5,000 KL. Collectively, these ponds offer a total rainwater storage capacity of approximately 1,46,000 KL. From April to September 2025, approximately 49701 m^3 of harvested rainwater was utilized within the steel plant, particularly in the Coke Oven Plant and Captive Power Plant for quenching and cooling activities aligning with our commitment to SDG 6 (Clean Water & Sanitation) and 12 (Responsible Consumption and Production). Additionally, by minimizing the energy-intensive processes associated with freshwater extraction and treatment, the effort supports SDG 13 (Climate Action) by contributing to lower greenhouse gas (GHG) emissions.
x.	Treated water from ETP of COBP shall not be used for coke quenching.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.

xi.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Complied. Water meters are provided at the inlet to all unit processes in our steel plant.
xii.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Being Complied. JSW Salem Works ensures compliance with water conservation measures by implementing maximum efforts to minimize water consumption. Key initiatives include the installation of a Reverse Osmosis (RO) plant, optimizing cooling water cycles of concentration (COC), and adopting Best Available Technologies (BAT), such as Air-Cooled Condensers instead of Water-Cooled Condensers. As a result, entire quantity of the treated water is reused in secondary processes, significantly reducing freshwater intake and supporting sustainable water management within the facility.
IV. Noise Monitoring And Preservation		
Sl. No	**Condition**	**Compliance Status**
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.	Complied. Noise level is being monitored on regular basis by a NABL accredited laboratory & TNPCB and the results are well within the standards and reports are being submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report. Kindly refer Annexure 10
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.75 dB(A) during day time and 70 dB(A) during night time.	Complied. The ambient noise levels are being monitored on monthly basis and the results are well within the prescribed limit of 75 dB(A) during day time and 70 dB(A) during night time and reports are being submitted to the Regional Office of the Ministry as a part of six-monthly compliance report. The report details (ROA) are given in Annexure 10
V. Energy Conservation Measures		
Sl. No	**Condition**	**Compliance Status**
i.	The project proponent shall provide TRTs to recover energy from top gases of Blast Furnaces.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a

		reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
ii.	Coke Dry quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
iii.	Waste heat shall be recovered from Sinter Plants coolers and Sinter Machines.	Complied. As part of our compliance efforts, waste heat from the Sinter plant cooler is diverted to the BF Slag grinding unit to recover sensible heat.
iv.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
v.	Use hot charging of slabs and billets/blooms as far as possible.	Being Complied. Based on the product specification, hot charging is done for billets/blooms. Slabs are not produced in our facility.
vi.	Waste heat recovery systems shall be provided in all units where the flue gas or process gas exceeds 300°C.	Complied. Waste heat recovery boilers are in operation to recover maximum heat from flue gas and produce energy. Waste heat from Sinter plant cooler is diverted to the BF Slag grinding unit to recover sensible heat.

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.	Being Complied. We have installed various types of waste heat recovery boilers to recover maximum heat from flue gases. Waste heat from Sinter plant cooler is diverted to the BF Slag grinding unit to recover sensible heat. BF gas is utilized in Mills for Reheating furnaces, BF stoves and CPPs for steam generation. Power generation is maximized up to 70% through waste heat recovery system and rest is balanced through coal based boiler, Renewable Power and grid support.
viii.	Restrict Gas flaring to < 1%	Complied. BF waste gas is maximum used in all the shop floors as gaseous fuel where by usage of fossil fuel is optimized. For the effective utilization online monitoring system(SCADA) is installed to monitor and maximize the BF gas utilization.
ix.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Being Complied. Solar panels with a total capacity of 75 kW have been installed, comprising 50 kW at the canteen, 10 kW at the R&D building, and 5 kW at the MRSS. The average power generation is approximately 12 kWh, with further installations planned in a phased manner. Recently, an additional 10 kW solar panel installation at the Air Separation Plant (ASP) has been completed.
x.	Provide LED lights in their officers and residential areas.	Being Complied. We have taken action to install LED based lightings in the offices and township area and the replacement of sodium vapour lamp to LED is increased up to 1300 KW. Further, planned to install LED lights all over plant.
xi.	Ensure installation of regenerative type burners on all reheating furnaces.	Being Complied. BF gas is used as fuel and regenerative type burners are installed in reheating furnaces (Mills).
VI. Waste Management		
Sl. No	**Condition**	**Compliance Status**
i.	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 kg/l shall be installed to use slag as river sand in construction industry.	Complied. BF slag grinding unit is under operation to produce ground granulated BF slag which is directly sold to cement industries as a value addition product.
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 maximize heat recovery.	Being Complied. The gas main carrying hot flue gases to the boilers is completely insulated to conserve heat and to maximize heat recovery.

iii.	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery coke ovens).	Not Applicable. In this regard, an EC amendment proposal (Proposal No. IA/TN/IND1/517407/2025) was submitted to MoEF&CC on 06.01.2025. The Ministry raised an EDS, directing us to conduct a techno-economic feasibility study through a reputed national institute. Accordingly, M/s CIMFR carried out the study. Now that the final Techno-Economic Feasibility Report from CIMFR has been received, we are in the process of submitting the EC General Condition amendment application.
iv.	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	Complied. The existing facility of BF#1, EOF#1 & EOF#2 are installed with wet gas cleaning plant and after thickener treatment, GCP slurry is treated in a sludge handling unit and the dried sludge (carbon recovery) is reused in sinter plant.
v.	Waste recycling plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Being Complied. A 50 TPH slag crushing facility has been commissioned to process SMS slag, facilitating the segregation of iron-bearing scrap for reuse in the SMS process and thereby reducing GHG emissions. The crushed slag is classified into various sizes for in-plant applications magnetic fractions used in the Sinter Plant and non-magnetic fractions utilized in paver block manufacturing as well as for sale outside the plant premises
vi.	Used refractories shall be recycled as far as possible.	Being Complied. Refractories are being selected to withstand high temperature whose shelf-life is longer whereby generations of used refractories are lesser. The used refractories are sent to recyclers.
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 project 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.	Being Complied. We have installed a slag crushing facility of 50 TPH to handle SMS slag to segregate iron bearing materials as scrap and reused in SMS process where by certain level of GHG emission is reduced. SMS slag is sent for metal recovery system and the crushed slag with various sizes is reused in internal applications like sinter plant, EOF as hearth layer and cooling media respectively and to cement industries. Portion of crushed slag is used in paver block facility as replacement to the natural aggregate and by this reuse of rejects being ensured.

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.	Being Complied. A coal-based boiler is installed in 2006 and imported coal with low ash is used as fuel and the boiler is being operated with flexible load to cater the captive power requirement. Fly ash generated from the coal based boiler is 100% sent to local fly ash brick manufacturers. Sale order (MoU) has been issued all the fly ash brick manufactures through Sales audit team.
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.	Being Complied. Oil collection pits are provided in oil cellars to collect and reuse the spilled oil. Cold rolled products are not applicable to our plant.
x.	The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanizing, 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.	Being Complied. The Used oil, grease and other hazardous wastes like acidic sludge from pickling is disposed as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 as amended. Our coke oven plant is Non Recovery Type. Hence, Coal tar sludge / decanter sludge is not generated during our plant operations.
xi.	Kitchen waste shall be composted or converted to biogas for further use.	Being Complied. A Biogas plant is installed at the canteen area and kitchen waste is converted into biogas and the same is used in the canteen as alternative fuel to LPG.
VII. Green Belt		
Sl. No	**Condition**	**Compliance Status**
i.	Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Being Complied. JSW Salem Works has undertaken significant plantation efforts within the Plant and Township premises. A total area of 91 hectares has been developed under green cover, constituting approximately 34% of the total land area. The plantations primarily consist of native tree species, aligned with CPCB guidelines, and demonstrate a survival rate of 85–90%. The greenbelt has been strategically developed to cover the plant's periphery, ensuring compliance with regulatory standard. The greenbelt layout is enclosed as Annexure 3
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for	Being Complied. The GHG emissions inventory for the plant is compiled and submitted annually, incorporating carbon sequestration data derived from tree

	reduction of the same including carbon sequestration including plantation.	plantation efforts. During financial year 2024–25, we have undertaken a comprehensive Carbon Sequestration Study and conducting physical tree enumeration for the first time since the plant's inception. The study currently underway through Periyar University, led by expert ecologists and environmentalists. The study aims to establish a scientific baseline for future carbon offset planning, with the final report expected by December 2025.
VIII. Public Hearing and Human health issues		
Sl. No	**Condition**	**Compliance Status**
i.	Emergency prepared plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being Complied. Study on Risk and Disaster Management Plan was conducted and the detailed report was submitted on 01.02.2018 and the updated one submitted to local administration on 16.06.2022
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Being Complied. OHC team periodically conduct Heat stress analysis for the workmen working in high temperature work zone and suitable Personal Protection Equipment (PPE)s and other adequate requirements are provided as per the norms of Factory Act.
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.	Agreed to Comply. Currently, there are no ongoing expansion activities.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied. Annual Health Check-ups conducted as per the Factories Act for all employees on yearly basis and records are being maintained in the OHC.
IX. Corporate Environmental Responsibility		
Sl. No	**Condition**	**Compliance Status**
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environmental Responsibility.	Being Complied. All activities under the Corporate Environmental Responsibility (CER) are being diligently implemented. Progress updates are submitted regularly as part of the six-monthly compliance reports and the status report of April to September 2025 is enclosed as Annexure 11. Additionally, modifications to the ESC action plan, in response to the evolving needs of

		nearby villages, have been thoroughly assessed. The revised action plan status was formally communicated to the MoEF&CC via correspondence dated September 26, 2020.
ii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances 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.	Being Complied. We have adopted sustainable development principles and goals, with environmental and other related policies duly approved by the Board of Directors. Systems are in place to monitor and report any deviations or violations of environmental norms and conditions. Any such deviations are documented and reported as part of the six-monthly compliance reports.
iii.	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.	Being Complied. A dedicated Environmental cell is in place with qualified personnel under the control of Section Head, who is reporting directly to the head of the organization.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be 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.	Being Complied. EMP implementation with action plan and environmental conditions along with responsibility matrix is implemented and year wise funds (CAPEX) earmarked for environmental protection measures are kept as separate account and not diverted for any other purposes. The details are submitted along with six monthly compliance report. The capex cost spent on EMP during H1 of FY 2026 is approx. ₹ 0.50 Crores and opex is approx. ₹.16.11 Crores
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Being Complied. Self-environmental audit is being conducted annually. Environment Audit is being carried out by external agencies once in year and confirming with the standard of ISO 14001:2015. Third party environmental audit is under progress.
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the	Being Complied. All the recommendations of the Charter on the Corporate Responsibility for the Environmental Protection (CREP)

	Iron and Steel plants shall be implemented.	issued for the steel plants are implemented and the compliance status report Annexure 7 is being submitted along with six monthly compliance report.
X. Miscellaneous		
Sl. No	**Condition**	**Compliance Status**
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising in at least in two local newspapers of the District or State of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.	Complied. Environmental Clearance accorded from MoEF&CC dated 10.02.2020 and the same was advertised in two local newspapers on 14.02.2020 (Dinamani and The New Indian Express) which are widely circulated in the region of which Tamil is the vernacular language of the locality concerned. EC accorded is displayed in our website.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. We have submitted the copy of the Environmental Clearance dated.10.02.2020 to the Heads of local bodies on 30.05.2020 and Panchayats on 20.02.2020
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being Complied. The compliance of the stipulated Environment Clearance conditions including results of monitored data is uploaded on our website at half-yearly basis and the latest one uploaded to website on 30.05.2025
iv.	The project 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.	Complied. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOX, CO are displayed near the entrance of main gates of our company in the public domain & also uploaded in our website as in the six-monthly compliance report.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest & Climate Change at environmental clearance portal.	Being Complied. Six-monthly reports on the status of the compliance of the stipulated EC are being uploaded to the website of the ministry of Environment, Forest & Climate Change, Parivesh portal.
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the	Being Complied. The Environmental Statement as prescribed under the Environment (Protection) Rules, 1986, for

	concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	each financial year ending 31st March in Form-V is being submitted every year and displayed on the website of the company. For FY 2025 the report has been submitted on 29.09.2025.
vii.	The Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Being Complied. Date of financial closure and land development work has been informed to the JCEE of TNPCB, Salem dated 25.11.2020 and the same has been communicated through six monthly compliance report.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed to Comply. Abide by the order
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed to Comply. Abide by the order
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed to Comply. Abide by the order
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.	Agreed to Comply. Abide by the order
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to Comply. Abide by the order
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed to Comply. Abide by the order
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports	Agreed to Comply. Abide by the order
xv.	The above conditions shall be enforced, inter-alia under the provisions of the	Agreed to Comply. Abide by the order

	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 and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Agreed to Comply. Abide by the order

COMPLIANCE STATUS REPORT TO THE EC DATED.07.08.2019

Compliance status to the EC (Amendment) dated 07.08.2019

Subject: Expansion of integrated Steel Plant (1.0 MTPA to 1.3 MTPA) of M/s. JSW Steel Ltd., Located at Mecheri, Taluk Mettur, District Salem, Tamil Nadu – Amendment in Environmental Clearance issued dated 07.07.2017 – Reg.

Reference: F.No.J-11011/281/2006-IA.II (I) dated 07.08.2019

The compliance status for the EC conditions to the EC Amendment dated 07.08.2019 is given in this report.

Sl. No	Condition	Compliance Status
i	The specific condition no. vii given at paragraph no.26 of the EC accorded vide letter dated 7 /07/2017 shall read as below: "No effluent shall be discharged outside the plant premises and 'zero' discharge for the complete steel plant complex including Captive Power Plants (CPPs) shall be adopted.	Being Complied. Our plant adheres to Zero Wastewater Discharge concept, ensuring no effluent is discharged outside the premises, except for rainwater and surface runoff during the monsoon. CCTVs and an Electromagnetic Flow Meter (EMFM) have been installed at the overflow point of the guard pond, where process wastewater is collected for treatment. Zero wastewater discharge is consistently maintained across the entire steel plant, including the Captive Power Plant (CPP). As per the latest Consent to Operate (CTO) for CPP II (3 x 30 MW), all wastewater generated from CPP II is directed to the steel plant's guard pond for collection, treatment, and subsequent reuse in the steel plant. This treated water is effectively utilized for cooling, dust suppression, and gardening purposes as per the Consent Order.

COMPLIANCE STATUS REPORT TO THE EC DATED.07.07.2017

Compliance Status to the EC (Expansion) dated 07.07.2017

Subject: Expansion of integrated Steel Plant (1.0 MTPA to 1.3 MTPA) of M/s. JSW Steel Ltd., Located at Mecheri, Taluk Mettur, District Salem, Tamil Nadu – Environmental Clearance under EIA notification, 2006 – Reg.

Reference: F. No J-11011/281/2006-IA. II (I) dated 07.07.2017

The compliance status for the EC conditions to the EC Dated 07.07.2017 is given in this report.

A. SPECIFIC CONDITIONS:

Sl. No	Conditions	Compliance
i.	The occupational health survey of the active workmen involved shall be carried as per the ILO guidelines and all the employees shall cover in every 5 years @ 20% every year.	Being Complied. An Occupational Health Survey (OHS) is being conducted for all employees on yearly basis and records are being maintained in the OHC ensuring 100% coverage of all employees.
ii.	The amount allocated for ESC i.e. Rs 13 Crores shall be provided as CAPEX and the ESC shall be treated as project and monitored annually and the report of same shall be submitted to Regional office of MoEF&CC.	Being Complied. An allocation of ₹13 Crores has been earmarked under CAPEX for Enterprise Social Commitment (ESC), with implementation of the associated action plans currently in progress. The plant expansion is being undertaken in a phased manner: Phase I: Capacity enhancement from 1.0 MTPA to 1.15 MTPA Phase II: Further increase in capacity from 1.15 MTPA to 1.3 MTPA (yet to start) The total projected investment for the expansion stands at ₹1025 Crores. Phase I has been successfully completed, with an expenditure of approximately ₹650 Crores. Till September 2025, ₹8.88 Crores has been utilized from the ESC allocation. Detail report is given as Annexure 11
iii.	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	Being Complied. Solar panels with a total capacity of 75 kW have been installed, comprising 50 kW at the canteen, 10 kW at the R&D building, 10 kW at Air Separation Plant and 5 kW at the MRSS. The average power generation is approximately 12 kWh, with further installations planned in a phased manner. Usage of RE power in CPP II

iv.	The project proponent shall provide for LED lights in their offices and residential areas.	Being Complied. Energy-efficient LED lighting systems are being implemented in place of conventional lamps across various areas, with plans to gradually extend the installation throughout the entire facility. All new lighting installations are LED-based.
v.	The project proponent should install 24X7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.	Being Complied. We have installed 32 Nos. of dust analyzers & 24 Nos. gaseous emission monitoring systems as per CTO condition and the real time data of SPM, SO_2, NOx and CO are transmitted to the Care Air Centre of TNPCB and CPCB servers. A copy of the report is attached as Annexure 2.
vi.	The ETP for Blast furnace effluent should be designed to meet Cyanide standards as notified by the MoEF&CC.	Being Complied. Our plant operates two blast furnaces. Blast Furnace #1 is equipped with a wet-type gas cleaning plant (GCP), while Blast Furnace #2 features a dry-type GCP. Cyanide levels have not been detected in the effluent from Blast Furnace #1. This is consistently verified through periodic analysis conducted by an external NABL accredited laboratory. Additionally, the State Pollution Control Board (SPCB) collects effluent samples from the guard pond on a monthly basis, with results confirming the absence of cyanides.
vii.	No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.	Being Complied. We have established Zero Effluent Discharge system and wastewater generated from the various processes of steel plant and thermal power plant is collected in a guard pond at steel plant premises and treated wastewater is 100% reused in steel plant processes as per the CTO under Water (P & CP) Act. To treat the effluent arising out of the pickling plant and etching lab a dedicated ETP with the facility of Pretreatment, Ultra filter, Multistage RO plant, MEE and ATFD are installed. The treated wastewater is reused in pickling process and etching lab.
viii.	The ETP for coke oven by-product should be designed to meet EPA notified standards especially the cyanide and phenol.	Not Applicable. The Coke Oven plant installed is non-recovery type and hence the condition is not applicable to our operations.

ix.	Coke oven plant should meet visible emission standards notified by the MoEF&CC.	Not Complied. As per MoEF&CC notification 2012 which is applicable to the Integrated Iron & Steel plant refer the visible emissions to by-product type coke oven (Recovery type). The Coke Oven Plant installed at our site is non recovery type which operates under negative pressure and horizontal loading thereby no visible emissions are anticipated. However, we have installed a dedicated dedusting system in the coal charging and coke pushing cars.
x.	The standards issued by the Ministry vide G.S.R. 277(E) dated 31st March 2012 shall be strictly adhered to and the standards prescribed for the Coke oven plant shall be monitored and the report should be submitted along with the six-monthly compliance report.	Being Complied. The standards issued by the Ministry vide G.S.R. 277(E) dated 31st March 2012 are related to emission standards of Iron and Steel plant. As per the standard the emissions related to coke oven plant is applicable to by product type and our Coke Oven plant is of non-recovery type. Emission standards with respect to stack (COP waste gas is used for steam generation and COP stacks are functioning as emergency stack) and fugitive emissions at the COP are being monitored and the results are submitted along with the six-monthly compliance report. Since, our plant is non-recovery type ETP is not anticipated for COP. All other emissions & effluent parameters related to sinter plant, blast furnace, steel making shop, mills are being monitored monthly and the values are well within the standard prescribed. The six months monitoring results by TNPCB and NABL accredited laboratory for stack emissions are given in Annexure 2 & 5 and Effluent quality monitoring results are given in Annexure 8
xi.	The emission standards specified in the Environmental (Protection) Amendment Rules, 2015 issued by vide S.O. 3305 (E) dated 7th December 2015 for the Thermal Power Plant shall be strictly adhered to.	Being Complied. Air Quality Monitoring is being done by SPCB biannually and manual monitoring is conducted by a NABL accredited external laboratory (Air quality Monitoring as applicable to the thermal power plant with respect to the emission standards specified in the Environmental (Protection) Amendment

		Rules, 2015 issued by vide S.O. 3305 (E) dated 7th December 2015) on a monthly basis and we are submitting the monthly report to SPCB. Latest report of SPCB survey and Monthly Environment monitoring reports are given in Annexure 2 & 5
xii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009 shall be followed.	Being Complied. We are adhering to the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009.
xiii.	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided.	Being Complied. We have installed 4 Nos. of Continuous Ambient Air Quality monitoring stations to carry out the ambient air quality monitoring, considering the wind pattern. The installations one with the upstream of the plant and three are the downstream of the plant area at an angle of 120° each and the real time parameters are connected with CAC, TNPCB, Chennai. Online continuous stack monitoring systems are installed in all process and non-process stacks as applicable to monitor SPM, SO2 & NOx as per the CTO condition. Further adequate Air Pollution Control measures in the respective process and raw material handling areas like water sprinklers, dry & wet fog systems, GI sheets are provided in raw material handling areas to control fugitive emission. As per the recent survey report of the TNPCB the stack and fugitive emission values are well within the standards. The details of stack wise APC installed are given in Annexure 6
xiv.	A statement on carbon budgeting including the quantum of equivalent CO_2 being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO_2 that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This shall	Being Complied. The GHG emissions inventory for the plant is compiled and submitted annually, incorporating carbon sequestration data derived from tree plantation efforts. During financial year 2024–25, we have undertaken a comprehensive Carbon Sequestration Study and conducting physical tree enumeration for the first time since the plant's inception. The study currently

	be prepared every year by the project proponent. The first such budget shall be prepared within a period of 6 months and subsequently it should be prepared every year.	underway through Periyar University, led by expert ecologists and environmentalists. The study aims to establish a scientific baseline for future carbon offset planning, with the final report expected by December 2025.
xv.	For the employees working in high temperature zones falling in the plant operation areas, the total shift duration will be 4 hrs or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hr continuously. Such employees would be invariably provided with proper protective equipment, garments and gears such as head gear, clothing, gloves, eye protection etc. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc.	Being Complied. Employees working in high-temperature zones are rotated to alternate roles to ensure no individual is exposed to temperatures exceeding 50°C for more than one hour continuously. Adequate ventilation is maintained in these areas, and tasks requiring exposure to temperatures up to 45°C, such as handling hot metal or crude steel, are limited to 10-15 minutes as per operational requirements. To prioritize worker safety, proper personal protective equipments (PPE) are provided, including aluminum-coated garments, headgear, gloves, eye protection, and other necessary gear. Additionally, arrangements are in place to supply sufficient hydration options such as drinking water, buttermilk, and lime juice to prevent dehydration and ensure employee well-being.
xvi.	In-plant control measures and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	Being Complied. Dust suppression systems are provided to control fugitive emissions from all the vulnerable sources like raw material unloading and storage yards. Bag filters and Dry & Wet fog systems are provided in raw material transfer points, coal handling and coke sorting plant of coke oven. To control dust emission bag filters are provided in coal handling area of COP. Water sprinkler systems are provided in various locations to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials. A tyre washing unit is installed in the main gate entry to control dust emission due to vehicular movement.

xvii.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Not Applicable. JSW Salem Works not installed with sponge iron plant. The G.S.R. 414(E) dated 30th May, 2008 is related to sponge iron plant. Hence, it is not applicable.
xviii.	Hot gases from DRI Kiln should be passed through dust settling chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery (WHRB). The gas then shall be cleaned in ESP before dispersion out into the atmosphere through ID fan and stack. ESP shall be installed to control the particulate emission from WHRB.	Not Applicable. The existing and expansion of the steel plant is following blast furnace route and there is no Direct Reduced Iron (DRI) process in our operations. Hence, it is not applicable.
xix.	Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement.	Complied. Solar panels with a total capacity of 75 kW have been installed, comprising 50 kW at the canteen, 10 kW at the R&D building, and 5 kW at the MRSS. The average power generation is approximately 12 kWh, with further installations planned in a phased manner. Recently, an additional 10 kW solar panel installation at the Air Separation Plant (ASP) has been completed.
xx.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. Study on Risk and Disaster Management Plan was conducted and the detailed report was submitted on 01.02.2018 and the updated one submitted to local administration on 16.06.2022
xxi.	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Flue dust from sinter plant and SMS and sludge from BF shall be re-used in sinter plant. Coke breeze form coke oven plant shall be used in sinter and pellet plant. SMS slag shall be given for metal recovery and properly utilized. All the other solid waste including broken refractory mass shall be properly disposed of in environment-friendly manner.	Complied. i. All the Blast Furnace Slag is converted to Granulated slag and now sending to GGBFS unit for value added product. ii. Flue dust from blast furnace, sludge from BF 1 & EOF, iii. Coke breeze from coke oven plant are re-used in sinter plant. iv. Pellet plant is not installed in our process. v. SMS slag is subjected to magnetic separation for metal recovery and after crushing further reused in internal applications including paver block making facility and sold to cement industries.

		vi. The refractories are being selected to withstand high temperature whose self-life is longer whereby generations of used refractories are lesser. The used refractories are sent to recyclers.
xxii.	Coal and coke fines shall be recycled and reused in the process. The breeze coke and dust from the air pollution control system shall be reused in sinter plant. The waste oil shall be properly disposed of as per the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.	Being Complied. 1.Coal and coke fines are recycled and reused in the Sinter plant and Blast Furnace. 2.Coke breeze and dust from the air pollution control systems are collected and reused in the Sinter Plant. 3.The waste oil generated from the process is being disposed to authorized vendor as per the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
xxiii.	Green belt shall be developed in 33 % of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Complied. JSW Salem Works has enhanced its green cover to approximately 91 hectares, comprising around 34% of the total land area. With a tree survival rate ranging between 85–90%, this reflects our commitment towards environmental stewardship. A comprehensive study on tree count is under progress. Photographs of the greenbelt are enclosed as Annexure 3
xxiv.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel plants and Coke Oven Plants shall be implemented.	Complied. All recommendations outlined in the Charter on Corporate Responsibility for Environmental Protection (CREP) for steel plants have been fully implemented. The updated compliance status report is enclosed herewith as Annexure 7
xxv.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	Being Complied. An allocation of ₹13 Crores has been earmarked under CAPEX for Enterprise Social Commitment (ESC), with implementation of the associated action plans currently in progress. The plant expansion is being undertaken in a phased manner: Phase I: Capacity enhancement from 1.0 MTPA to 1.15 MTPA Phase II: Further increase in capacity from 1.15 MTPA to 1.3 MTPA (Yet to start) The total projected investment for the expansion stands at ₹1025 Crores. Phase I has been successfully

		completed, with an expenditure of approximately ₹650 Crores. As of March 2025, ₹8.88 Crores has been utilized from the ESC allocation. Detail report is given as Annexure 11
xxvi.	The proponent shall prepare a detailed CSR plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc.) activities in consultation with the local communities and administration. The CSR plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the compliance report to RO. The details of the CSR plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included.	Being Complied. CSR plan for 5 years is prepared as per condition and activities are completed. The details of the CSR plan is uploaded on our company website and also provided in the Annual Integrated Report of the JSW steel limited The updated report of CSR for FY 2025 is attached as Annexure 11
xxvii	All the commitments made to the public during the Public Hearing /Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Chennai	Complied. Commitments made to the public during Public Hearing is satisfactorily implemented and information submitted to the Ministry's Regional Office at Chennai
xxviii.	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.	Agreed to Comply. Currently, there are no ongoing expansion activities. Provisions will be made for the expansion project activities and as per the condition temporary structure will be removed after the completion of expansion activities.

B. GENERAL CONDITIONS

Sl. No	CONDITIONS	COMPLIANCE
i.	The project authorities must strictly Adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.	Agreed to Comply. We are adhering to the stipulations made by the SPCB.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Being Complied. There is no further expansion or modification in the plant is carried out without prior approval of Ministry of Environment, Forests and Climate Change (MoEF&CC)
iii.	At least four ambient air quality monitoring stations (AAQMS) should be established in the downward direction as well as where maximum ground level concentration of PM_{10}, $PM_{2.5}$, SO_2 and NO_X are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chennai and the SPCB/CPCB once in six months.	Complied. In consultation with the Tamil Nadu Pollution Control Board (TNPCB), 4 No. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed within the plant premises at locations where the maximum ground-level concentrations of PM10, PM2.5, SO2, NO2 and CO occur. Ambient Air Quality and stack emission data are regularly monitored and submitted to the Ministry of Environment, Forest, and Climate Change (MoEF&CC), the Regional Office in Chennai, and the State and Central Pollution Control Boards (SPCB/CPCB) on half yearly basis.
iv.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Being Complied. Industrial wastewater is being collected, treated and reused 100% for secondary applications such as cooling, dust suppression and plantation purpose. Quality parameters are conformed to the prescribed standards under GSR 422 (E) dated 19th May, 1993 and 31st December 1993. The treated wastewater analysis report given by TNPCB & NABL accredited laboratory is given in Annexure 8
v.	The overall noise levels in and around the plant shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Being Complied. Ambient noise levels are measured in and around the plant areas on monthly basis and control measures like acoustic hoods, silencers, and enclosures are provided wherever required. The ambient noise levels are well within the standards prescribed under EPA Rules, 1989. Apart from this visual display boards are displayed to

		wear earplug, ear muff as PPE wherever required. The noise monitoring results by NABL accredited laboratory is enclosed in Annexure 10
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied. Health surveillance (Annual Health Check-up) is being conducted for all employees on yearly basis and records are being maintained in the Occupational Health Centre.
vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Being Complied. We have implemented a comprehensive rainwater harvesting system, comprising four strategically located ponds designed to maximize water conservation. Two of these ponds are located near the township on the eastern side, with storage capacities of 17,500 KL and 1,08,000 KL, respectively. Within the plant premises, one pond near the RO plant area has a capacity of 15,000 KL, while another situated behind the guest house can store 5,000 KL. Collectively, these ponds offer a total rainwater storage capacity of approximately 1,46,000 KL. From April to September 2025, approximately 49701 m^3 of harvested rainwater was utilized within the steel plant, particularly in the Coke Oven Plant and Captive Power Plant for quenching and dust suppression activities aligning with our commitment to SDG 6 (Clean Water & Sanitation) and 12 (Responsible Consumption and Production). Additionally, by minimizing the energy-intensive processes associated with freshwater extraction and treatment, the effort supports SDG 13 (Climate Action) by contributing to lower greenhouse gas (GHG) emissions.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommend in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Complied. To comply the environmental protection measures and safeguards as per the recommendation of EIA/EMP report for controlling air emissions including fugitive, water reduction, Zero Wastewater Discharge, Waste Minimization and maximum waste utilization.

		Apart from the above we are undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply, health care and formation of former producer organisation, etc. The details are given Annexure 11 in the six monthly report of CSR.
ix.	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai. The funds so provided shall not be diverted for any other purpose.	Being Complied. During H1 of FY 2025-26 (April - September 2025), approximately Rs. 0.5 crores have been spent as capital cost on environmental pollution control measures. Additionally, approx. Rs. 16.11 Crores have been incurred as recurring costs for these measures.
x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. Copy of clearance letter is submitted to local administration on 14.07.2017 as well as uploaded to our website.
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF&CC at Chennai. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{10}, SO_2, NO_X (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being Complied. The compliance of the stipulated environment clearance conditions including results of monitored data is uploaded to company website once in six months and periodically updated as informed. Simultaneously the compliance reports are being submitted (email) to the Regional Office of the MoEF&CC at Chennai and CPCB Regional Office Chennai & TNPCB Chennai. The criteria pollutant levels namely; PM10, SO2, NOX and stack emission are displayed near the entrance of both gates of the company in the public domain.

xii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chennai/CPCB/SPCB shall monitor the stipulated conditions.	Being Complied. Environmental conditions and compliance status report including results of monitored data are being submitted once in six months to the Regional Office of MoEF&CC, at Chennai and CPCB Regional Office Chennai & TNPCB Chennai.
xiii.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&CC at Chennai by e-mail.	Being Complied. Environmental statement for each financial year ending 31st March in Form-V and status of compliance of environmental conditions is being submitted to the Regional Office of the MoEF&CC at Chennai. For the FY 2025, the report was submitted on 29.09.2025. The same was uploaded on our company website.
xiv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be sent at website of the Ministry of Environment, Forests, and Climate Change (MoEF&CC) at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Chennai.	Complied. Environmental Clearance accorded from MoEF&CC dated on 07.07.2017 and the details have been advertised in Dinamani and The Indian Express on 14.07.2017. The same was advertised two local newspapers (Dinamani and The Indian Express) which are widely circulated in the region of which Tamil is the vernacular language of the locality concerned. A copy of the same is submitted to the MoEF&CC Regional office at Chennai on 15.07.2017
xv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied. Date of financial closure and land development work is informed to Regional Office vide letter dated 12.10.2017.

ANNEXURE 1

EC ADVERTISEMENT

Newspaper advertisement of Environment Clearance

PUBLIC NOTICE REGARDING GRANT OF ENVIRONMENTAL CLEARANCE

We would like to inform that the Ministry of Environment, Forest and Climate Change, Government of India, has granted Environmental Clearance vide its EC Identification No. File No. J-11011/281/2006-IA. II(I) dated 20.05.2025, for splitting of existing EC of **M/s.JSW Steel Limited, Salem works, Pottaneri & M. Kalipatti Villages, Mecheri, Mettur Taluk, Salem District, Tamil Nadu** of 1.30 MTPA Integrated Steel Plant, 90 MW CPP along with 0.8 MTPA Slag Grinding Unit between **M/s. JSW Steel Limited and M/s. JSW Cement Limited.**

Now, JSW Steel Limited, Salem works remain with the final configuration of 1.30 MTPA Integrated Steel Plant and 90 MW of CPP unit. Transfer of 0.8 MTPA Slag Grinding unit to M/s.JSW Cement Limited and the unit is within the existing premises of M/s.JSW Steel Limited, Salem Works, Pottaneri & M. Kalipatti Villages, Mecheri, Mettur Taluk, Salem District, Tamil Nadu.

The copy of the EC is available at the Ministry of Environment, Forest and Climate Change website (www.parivesh.nic.in), Tamil Nadu Pollution Control Board, Chennai and Available in company's website (www .jsw.in)

This is issued as per the directives of MoEF&CC.

Sd/-

Place : Mecheri — **Authorised Signatory**

Date : 29.05.2025 — **M/s.JSW Steel Limited, Salem Works**

Published in The Indian Express (English Daily) dated 03.06.2025

சுற்றுச்சூழல் அனுமதி வழங்கல் குறித்த பொது அறிவிப்பு

இந்திய அரசின் சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்ற அமைச்சகம், சேலம் மாவட்டம், மேட்டூர் தாலுகா, பொட்டனேரி மற்றும் எம். காளிபட்டி கிராமங்களில் அமைந்துள்ள ஜே.எஸ்.டபிள்யூ ஸ்டீல் லிமிடெட் சேலம் ஒர்க்ஸ்–ன். 1.30 MTPA திறன் கொண்ட ஒருங்கிணைந்த எஃகு ஆலை, 90 MW மின்சக்தி உற்பத்தி நிலையம் (CPP) மற்றும் 0.8 MTPA ஸ்லாக் கிரைண்டிங் யூனிட் ஆகியவற்றுக்கான ஏற்கனவே உள்ள சுற்றுச்சூழல் அனுமதியை, **ஜே.எஸ்.டபிள்யூ ஸ்டீல் லிமிடெட் மற்றும் ஜே.எஸ்.டபிள்யூ சிமெண்ட் லிமிடெட்** ஆகியவற்றுக்கிடையே பிரிப்பதற்கான சுற்றுச்சூழல் அனுமதி ((EC Identification No. File No. J-11011/281/2006-1A. II(I) dated 20.05.2025) வழங்கியுள்ளது என்பதைத் தெரிவித்துக் கொள்கிறோம்.

தற்போது, **ஜே.எஸ்.டபிள்யூ ஸ்டீல் லிமிடெட்**, சேலம் ஆலையின் 1.30 MTPA ஒருங்கிணைந்த எஃகு ஆலை மற்றும் 90 MW மின்சக்தி உற்பத்தி நிலையம் (CPP) யூனிட் இறுதி கட்டமைப்புடன் இருக்கும். 0.8 MTPA ஸ்லாக் கிரைண்டிங் யூனிட் ஆனது ஜே.எஸ்.டபிள்யூ சிமெண்ட் லிமிடெட் நிறுவனத்திற்கு மாற்றப்பட்டுள்ளது. இந்த யூனிட், சேலம் மாவட்டம், மேட்டூர் தாலுகா, பொட்டனேரி மற்றும் எம். காளிபட்டி கிராமங்களில் உள்ள ஜே.எஸ்.டபிள்யூ ஸ்டீல் லிமிடெட், சேலம் ஆலையின் தற்போதைய வளாகத்திற்குள்ளேயே தொடர்ந்து செயல்படும்.

இந்த சுற்றுச்சூழல் அனுமதியின் நகல் சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்ற அமைச்சகத்தின் இணையதளத்திலும் (www.parivesh.nic.in), தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியம், சென்னை அலுவலகத்திலும், மற்றும் நிறுவனத்தின் இணையதளத்திலும் (www.jsw.in) கிடைக்கும்.

இது சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்ற அமைச்சகத்தின் (MoEF&CC) வழிகாட்டுதல்களின்படி வெளியிடப்பட்டுள்ளது.

Sd/-

இடம் : மேச்சேரி — **அங்கீகரிக்கப்பட்ட கையொப்பமிட்டவர்**

தேதி : 29.05.2025 — **M/s. ஜே.எஸ். டபிள்யூ ஸ்டீல் லிமிடெட், சேலம் ஒர்க்ஸ்**

Published in Dinamani (Tamil daily) dated 03.06.2025

ANNEXURE 2

STACK EMISSION MONITORING REPORT OF TNPCB & NABL ACCREDITED LABORATORY

Stack emission monitoring report of TNPCB & NABL accredited laboratory for the period Apr '25 to Sep '25.

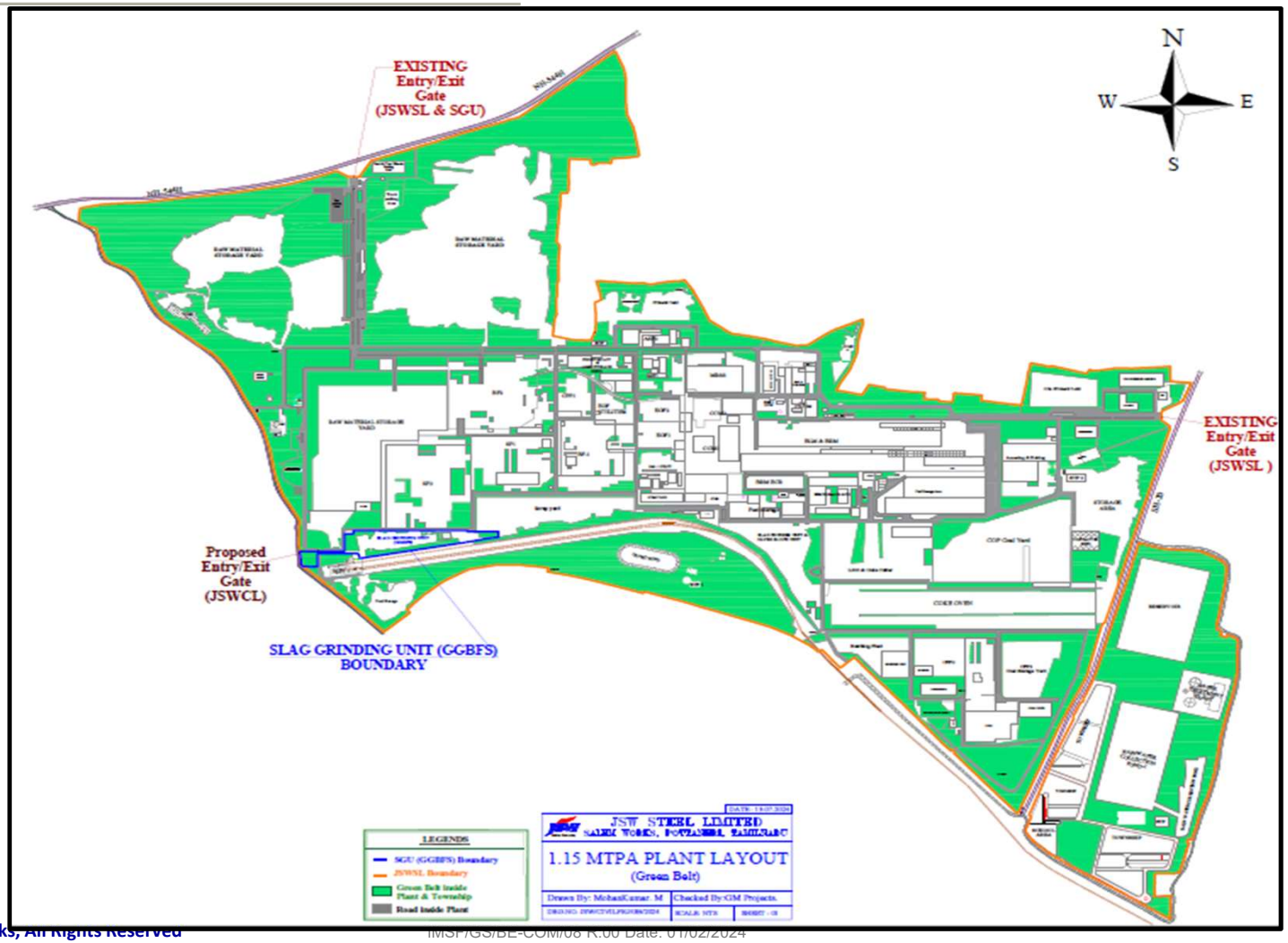
I. Stack emission monitoring results of TNPCB					
Sl. No	Stack attached to	Discharge rate in (Nm^3/Hr)	Pollutants Concentration (mg/Nm^3)		
			PM	SO_2	NO_x
1	Sinter Plant - I - Sinter Machine	75701	94	-	-
2	Sinter Plant – I - Cooling System	70986	31	-	-
3	Sinter Plant – I Dedusting System	145062	35	-	-
4	Sinter Plant – I RMHS	19432	58	-	-
5	Sinter Plant - II - Sinter Machine	399227	65	-	-
6	Sinter Plant - II - Cooling & De-dusting System	382451	44	-	-
7	Sinter Plant - II - RMHS	80622	57	-	-
8	COP - Coke cutter	32701	55	-	-
9	Coke Oven - WHRB -I	46700	44	144	41
10	Coke Oven - WHRB -III	83469	37	112	20
11	Coke Oven - WHRB -V	61289	42	128	34
12	BF Gas Fired Boiler	36600	42	53	18
13	Blast Furnace - I - Hot stove	46625	30	21	19
14	Blast Furnace - I - Stock House & RMHS	118141	55	-	-
15	Blast Furnace - I - Cast House	382830	45	-	-
16	Blast Furnace - II - Hot stove	138779	38	27	16
17	Blast Furnace - II - Stock House & RMHS	267264	41	-	-
18	Blast Furnace - II - Cast House	458566	47	-	-
19	Blast Furnace - II - PCI	43950	76	-	-
20	Process Boiler	43275	15	107	50
21	Energy Optimizing Furnace -I	66378	44	-	-
22	Energy Optimizing Furnace -II	63940	43	-	-
23	EOF Secondary dedusting system I & II	290246	40	-	-
24	Ladle Refining Furnace - 1 & 4 primary & LRF 1 to 4 Secondary dedusting	293879	42	-	-
25	Ladle Refining Furnace - 2 & 3	62741	36	-	-
26	VD boiler	12682	33	43	22
27	CCM-I ABGM - 1	17000	44	-	-
28	CCM-II ABGM - 2	33441	47	-	-
29	CCM-III Steam Exhaust 2	18008	5.2	-	-
30	CCM-III ABGM - 3	15254	46	-	-
31	BLM – Re Heating Furnace -I	28829	36	-	-
32	BLM – Re Heating Furnace -II	33445	34	-	-
33	BRM – Re Heating Furnace	74596	42	-	-
34	Pickling Plant - Acid Fumes Exhaust System Stack	17175	8	2.7	11
35	Pickling Plant - Acid - Hot Water Generator Stack	1184	8	2.7	10
36	Pickling Plant - MEE Thermic Fluid Stack	6088	24	8	18
37	GGBFS Grinding Mill Stack	127142	8	-	-
38	Batching Plant I Cement Silo vent stack	1061	31	-	-
39	DG Set (1250 KVA) Process Boiler.	1626	49	11	18
40	DG Set I (625 KVA) EOF 1	2549	32	8	16
41	DG Set (650 KVA) BRM	527	35	8	17
42	AFBC - Boiler	148376	22	270	186
43	COAL CRUSHER CPP 2	4795	84	-	-
44	CPP II COAL SCREENING SECTION	8504	55	-	-
45	DG Set (500 KVA) CPP 2	1062	61	12	34

II. Stack emission monitoring report of NABL accredited Laboratory					
Stack No.	Source name	Stack emission Average (mg/Nm^3)			Discharge (Nm^3/hr)
		SPM	SO_2	NO_x	
1	Sinter Machine (Sinter Plant I)	122.0	58.7	52.6	84234
2	Cooling System (Sinter Plant I)	40.0	-	-	94504
3	Dedusting System (Sinter Plant I)	40.9	-	-	142052
4	Dust Extraction System For RMHS (Sinter Plant I)	27.0	-	-	24922
5	Sinter Machine (Sinter Plant II)	66.7	59.0	54.0	506998
6	Plant Dedusting and Cooling (Sinter Plant II)	61.8	-	-	464231
7	Crushing of Fuel & Raw Materials (Sinter Plant II)	42.7	-	-	123455
8	Coke wet quenching tower	0.0	-	-	0
9	Coke Oven Chimney 1A & 1B (Coke Oven) -Emergency stack	0.0	0.0	0.0	0
10	Coke Oven Chimney II (Coke Oven) -Emergency stack	0.0	0.0	0.0	0
11	Coke Oven Chimney III (Coke Oven) -Emergency stack	0.0	0.0	0.0	0
12	Coke cutter dedusting system stack (Coke Oven)	31.5	-	-	43031
13	Coke Dryer dedusting system stack (Coke Oven)	29.2	-	-	113730
14	Waste Heat Recovery Boiler I (Coke Oven)	23.6	347.2	270.8	57913
15	Waste Heat Recovery Boiler II (Coke Oven)	28.8	348.9	268.1	56348
16	Waste Heat Recovery Boiler III (Coke Oven)	29.3	349.6	263.7	55846
17	Waste Heat Recovery Boiler IV (Coke Oven)	30.9	340.4	261.8	48070
18	Waste Heat Recovery Boiler V (Coke Oven)	25.1	338.1	272.6	55909
19	BF Gas Fired Boiler	36	58.1	52.6	53688
20	Hot Stove (Blast Furnace I)	24.0	61.6	54.9	54649
21	GCP Flare (Blast Furnace I) -Emergency stack	0.0	-	-	0
22	Stock House Dedusting System (Blast Furnace I)	33.5	-	-	87394
23	Cast House Dedusting System (Blast Furnace I)	36.9	-	-	323322
24	Hot Stove (Blast Furnace II)	23.8	59.3	53.1	73643
25	GCP Flare (Blast Furnace II) -Emergency stack	0	-	-	0
26	Stock House Dedusting & RMHS (Blast Furnace II)	30	-	-	292164
27	Cast House Dedusting System (Blast Furnace II)	25	-	-	533641
28	Pulverized Coal Injection (Blast Furnace)	32.7	-	-	52836
29	Process Boiler (1*25 TPH) and (1*8 TPH) (Common Stack)	29.9	56.7	51.4	17263
30	Energy Optimizing Furnace (Steel Melting Shop I)	40.9	58.7	51.3	51950
31	Energy Optimizing Furnace (Steel Melting Shop II)	37.5	57.4	50.7	52627
32	Secondary Dedusting System EOF I&II (Combined SMS II)	42.5	-	-	434325
33	Ladle Furnaces (Steel Melting Shop I) (Duct area)	44.0	53.5	47.2	21748
34	Ladle Furnaces -1 & 4(65 T/Heat Each) Primary & 1 to 4 Secondary Dedusting (Steel Melting Shop)	44.0	-	-	421576
35	Ladle Furnaces(Common Stack) (Steel Melting Shop II)	31.3	45.7	38.9	49808
36	Vacuum Degasing Unit (Boiler) (Steel Melting Shop II)	28.0	59.5	49.0	20984
37	CCM#I Steam exhaust system	12.4	-	-	28401
38	Billet grinding machine stack - ABGM -1	54.2	-	-	30749
39	CCM#II Steam exhaust system -1	12.0	-	-	27461
40	CCM#II Steam exhaust system -2	11.3	-	-	27274
41	CCM#II Cut fumes Exhaust system	10.7	-	-	60128
42	Billet grinding machine stack -ABGM - 2	50.2	-	-	34724
43	CCM#III Steam exhaust system 1	11.0	-	-	31839
44	CCM#II Steam exhaust system stack #2	10.5	-	-	33472
45	Billet grinding machine stack -ABGM - 3	50	-	-	23135
46	Re-heating Furnace - Chimney- 1 (BLM	41	58.1	50.5	28485
47	Re-heating Furnace - Chimney- 2 (BLM)	47	56	45	31613
48	Reheating Furnace Chimney 1 & 2	47	55	50	60333
49	Pickling Plant- Acid Fumes exhaust system stack	11	-	-	23228
50	Pickling Plant- Acid - Hot water Generator Stack	13	11	8	2012
51	Picklig plant - ARP - Hot water Generator	0	0.0	0.0	0
52	Pickling plant - MEE – Thermic fluid Heater	13	12.8	10.2	6849
53	BF Slag Grinding mill stack	8	-	-	146928
54	BF Slag Grinding unit- Sinter waste Gas	0	-	-	0
55	BF Slag Grinding unit- Hot Air Generator	0	-	-	0
56	Batching plant#1 Cement silo vent stack	31	-	-	2522
57	Batching plant#2 Cement silo vent stack	0	-	-	0.0
58	AFBC Boiler	26	505	432	105376
59	Coal crusher	35	-	-	6721
60	Coal screening	37	-	-	15229
61	Raw Material Transfer and Discharge Point	28	-	-	1674

ANNEXURE 3

DETAILS OF GREENBELT DEVELOPMENT.

Greenbelt Layout



Greenbelt development at JSWSL Salem Works

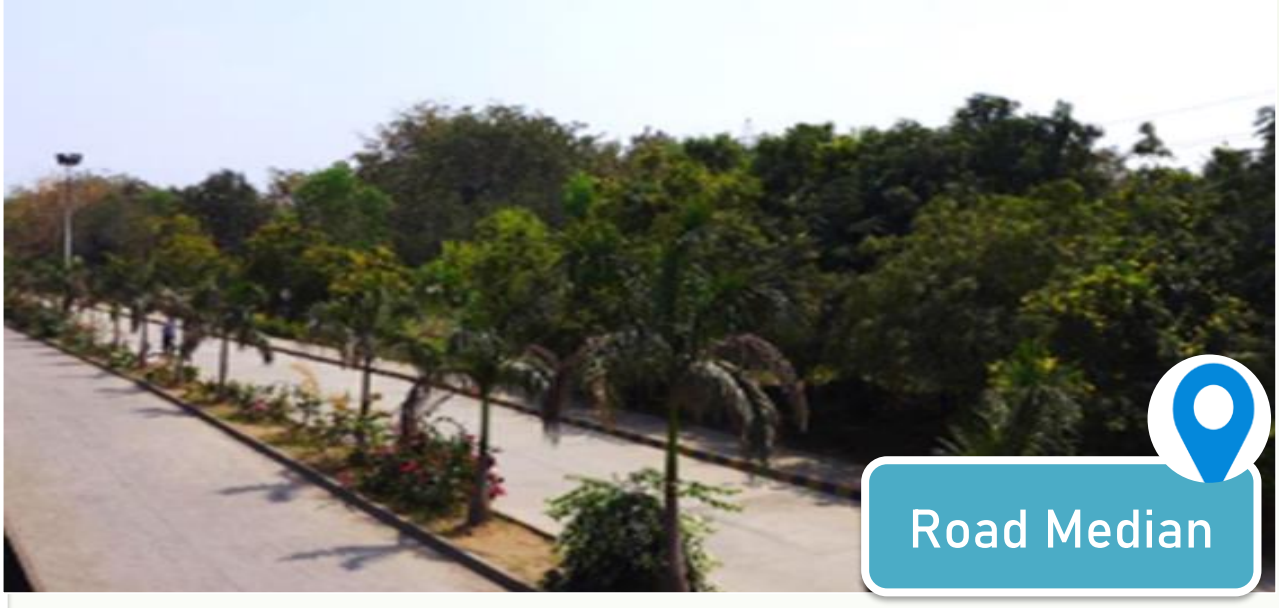
Greenbelt development at JSWSL Salem Works

Greenbelt development at JSWSL Salem Works

Greenbelt development at JSWSL Salem Works

Greenbelt development at JSWSL Salem Works

Greenbelt development at JSWSL Salem Works



Greenbelt development at JSWSL Salem Works

ANNEXURE 4

PWD ACKNOWLEDGEMENT

JSW/SLM/BOREWELL/2025-26/001
28th May 2025

To
The Chief Engineer
State Ground and Surface Water Resources Data Centre,
Tharamani,
Chennai - 600 113.

Dear Sir

Sub: Request for Renewal of No Objection Certificate for drawal of ground water from 4 Nos of bore wells located inside our steel plant at Pottaneri – M.Kalipatti Village, Mecheri, Salem District.- Reg.

Ref: No Objection Certificate Number OT 8/AG-2/103/2025/Renewal - NOC/SLM/2025 dated 20.02.2025.

With reference to the above cited subject, The No Objection Certificate Number: 8/AG-2/103/2025/Renewal - NOC/SLM/2025 dated 20.02.2025 is getting expired on 26.07.2025.

In this regard herewith we are submitting the duly filled application and Online payment receipt of E-Challan No: 20250528003038 dated 28.05.2025 of Rs.24000 for NOC renewal.

We request you to kindly issue No Objection certificate for drawl of ground water for the purpose of Drinking & Domestic use from 4 bore wells for the year 2025-2026.

Thanking you,

For JSW Steel Limited,

B N S Prakash Rao,
Executive Vice President & Plant Head.

Received:... Application Received
Date :..... 2/6/25
O/o. Chief Engineer.
SG & SWRDC, Tarama...
Chennai - 113
Sign:- 2/6/25

Salem Works
P.O. Pottaneri, Mecheri,
Mettur - Tk, Salem - Dt. Pin : 636 453
Tamilnadu, India.
CIN No L27102MH1994PLC152925
T +91 4298 272000
www.jsw.in

Registered Office
JSW Centre
Bandra Kurla Complex
Bandra East, Mumbai 400 051
T +91 22 4286 1000
F +91 22 4286 3000

JINDAL
O P Jindal Group

APPLICATION FOR RENEWAL / RENEWAL WITH ENHANCEMENT OF NO OBJECTION CERTIFICATE TO EXTRACT GROUNDWATER FOR INDUSTRY / CONSTRUCTION / COMMERCIAL / INFRASTRUCTURE PROJECTS WITHIN THE PREMISES / BY TRANSPORT

1. Name of the Applicant /Company name : M/s JSW Steel Limited, Salem Works.

2. Father's/Husband's Name (in case of individual) : NA

3. Complete Postal Address & Contact No. : Salem Works,
Pottaneri (P/O), Mecheri,
Mettur Taluk, Salem Dist.- 636453

4. Applicant own land / Registered Lease Agreement : Own Land

5. Place of ground water extraction proposed

   i. T.S / S.F No. : M/s JSW - 309 of Pottaneri Village & 310, 311 & 314 of M.Kallipati Village

   ii. Village name (If it is a hamlet village write Revenue village name) : Pottaneri & M.Kallipati

   iii. Firka name & Category : Pottaneri

   iv. Taluk name : Mettur

   v. District name : Salem

6. Place of ground water Utilization proposed / Transportation proposed

   i. T.S / S.F No. : M/s JSW - 309 of Pottaneri Village & 310, 311 & 314 of M.Kallipati Village

   ii. Village name (If it is a hamlet village write Revenue village name) : Pottaneri & M.Kallipati

   iii. Firka name & Category : Pottaneri

   iv. Taluk name : Mettur

   v. District name : Salem

7. Already Permitted Quantity of Ground water and date of NOC issued : 80000 lpd

8. Required quantity of ground water in case of enhancement : NA lpd
   Specify the need for additional quantity

9. Purpose of ground water is to be extracted : Industry/ Construction/ Infrastructure/Commercial
   (For Industry – Drinking & Domestic)

10. Ground water requirement for : New / Existing / Existing expansion

11.	Type of Industry & date of expiry of NOC	: Integrated Steel Plant (ISP) & 26.07.2025
12.	Details of existing/proposed structure (if proposed structure, fill the details below)	
	i. Type of well	: Dug well/Dug cum bore well/Bore well/Tube well
	ii. Diameter of well (in mts)	: 0.15 (6")
	iii. Depth of well (in mts)	: 1) 470 Feet, 2) 310 Feet 3) 550 Feet & 4) 575 Feet
	iv. Rock type	: Sedimentary / Hard rock formation
13.	Types of Pumps proposed for extraction	: Centrifugal/Turbine/Submersible/Jet/Compressor/Others
	HP	: 5 HP
14.	Hours of Pumping per day	: Two to Three Hours
15.	Total Number of abstraction structures	: Nil
16.	Details of Fees paid	:
	E-Challan No	: 20250528003038 dated 28.05.2025
	Amount	: Rs 24000/-

Declaration

It is to certify that the details and information furnished above are true to the best of my knowledge and belief and I am aware that if any part of the data/information submitted is found to be false or misleading at any stage the application will be rejected out rightly. I will forego the charges and I will not claim the refund of service charges in the case of incorrectness of facts in the certificates.

Date: 28/05/2025

Signature of the applicant

Place: Pottaneri

Annexure: 1. Online Payment E-Challan No: 20250528003038 dated 28.05.2025
2. Copy of Bore well NOC valid from 27.07.2024 to 26.07.2025

Government of Tamil Nadu

E-Challan

Payable at - PAO (CHENNAI SOUTH)

Remitter Copy

Challan Number	20250528003038	**Challan Date**	28-May-2025	**Payment Date**	
Remitter Type	Public	**Remitter Code**	30	**Remitter Name**	JSW STEEL LTD, SALEM
Mobile No.	7094437503	**Aadhaar No.**		**Remitter Address**	POTTANERI
Department	04002-Water Resources Department - Ground Water	**District**	PAO (Chennai South)	**DDO Code**	41010260
DDO / Office Name	EE, PWD, GWD, Chennai	**Department Transaction ID**		**Office Name**	

Receipt Type	Sub Type	Acct Code	Amount	Reference No.	Remark
Testing	No objection Certificate for Ground Water Abstraction	070202800AD22734	24000	NA	NA

Payment Mode	Online	**Payment Type**	null	**Payment Status**	Pending
Challan Amount (Rs.)	24,000			**Bank Name**	SBI
Amount (in words)	Twenty Four Thousand Rupees only.			**Bank ref no.**	CK00IPILL1

Please Note*, Department Transaction ID and Office Name fields are created only for 4 interface department Registration and Transport and CT for there specific requirements and the values entered in this fields are values passed by them not from IFHRMS.

Please Note*, This is a system generated Challan and does not require signature
Note : FOR INDIAN BANK BRANCHES, PLEASE USE CBS SCREEN NO 424 FOR PERFORMING V COLLECT

GOVERNMENT OF TAMIL NADU
WATER RESOURCE DEPARTMENT

From:
Er.T.Thamizhselvi,M.E.,
Chief Engineer, WRD,
State Ground & Surface Water
Resources Data Centre
Tharamani, Chennai 600 113.
Phone : 91-44-22542223 (Direct)
91-44-22541526/27(Board)
Email: cegwchennai@gmail.com
Web site: www.groundwatertnpwd.org

To:
M/s. JSW Steel Limited,,
Salem Works,
Pottaneri (Po), Mecheri,
Mettur Taluk,
Salem District-636453

Lr.No. OT 8 /AG-2/103/2025/Renewal – NOC/SLM/2025 dated:20.02.2025.

Sir,

Sub: **"Renewal of No Objection Certificate"** for drawal of groundwater to **"M/s. JSW Steel Limited"**, Pottaneri & M.Kalipatty Village, Pottaneri Firka, Mechery Block, Mettur Taluk, Salem District – Drinking and Domestic purpose - 7th Renewal of NOC issued - Reg.

Ref: 1.This Office Lr.No. OT 8 / AG-2 /17/ Renewal of NOC / SLM / 2024 dated:05.01.2024.
2.The firm Renewal of NOC application date:02.07.2024.
3.This Office Lr.No:311DD(G)/AG-III/Renewal of NOC/2024 Dt:12.07.2024.
4.SE,GWC,ThanjavurLr.No:28CE/AG/T.F44C(SLM)/NOC/GWC/TNJ/2025 Dt:29.01.2025.

Please find the enclosed **"Renewal of No Objection Certificate"**, for drawal of groundwater to **"M/s.JSW Steel Limited"**, Pottaneri & M.Kalipatty. Village, PottaneriFirka, Mechery Block, Mettur Taluk, Salem District. As per the G.O.(Ms).No 142 PW(R2)Department dt:23.07.2014, NOC for water based industries should be renewed every year. You are requested to strictly adhere to the quantity permitted and conditions mentioned in the certificate and apply for renewal of NOC before two months from the date of expiry, i.e., **26.07.2025** without fail. If you fail to apply for renewal of NOC, it will be treated as "illegal" and informed to District Monitoring Committee to seal the bore well in your unit as per Honourable Madras High Court Orders in WP.No.28535 of 2014 & WP.No.16299/2018.

Enclosure:

1. **Renewal of No Objection Certificate**

Chief Engineer,WRD,SG&SWRDC,
Tharamani,Chennai-113.

Certificate No.103/2025(R-7) Dated: 20.02.2025

GOVERNMENT OF TAMIL NADU

WATER RESOURCES DEPARTMENT

STATE GROUND & SURFACE WATER RESOURCES DATA

CENTRE CHENNAI – 113

Renewal of No Objection Certificate

This is to certify that **"M/s. JSW Steel Limited",** Pottaneri & M.Kalipatty Village, Pottaneri Firka, Mechery Block, Mettur Taluk, Salem District is hereby given the **"Renewal of No Objection Certificate"** for the drawal of total quantity of **80,000LPD** (Eighty Thousand litres per day) of groundwater for the purpose of **"Drinking & Domestic"** use from the Groundwater structure listed below with strict adherence of stipulated conditions.

Sl. No	Referred Well / Bore Well & SF. No	Village / Firka	Co-ordinates		Quantity Permittedfor Pumping in LPD
			Latitude	Longitude	
1.	Bore Well-1 / 309	Pottaneri / Pottaneri	$11^0$49'00" N	$77^0$54'59" E	**20,000**
2.	Bore Well-2 / 310	M.Kalipatty / Pottaneri	$11^0$48'34" N	$77^0$55'23" E	**20,000**
3.	Bore Well-3 / 311		$11^0$48'57" N	$77^0$55'13" E	**20,000**
4.	Bore Well-4 / 314		$11^0$48'51" N	$77^0$55'09" E	**20,000**
				Total	**80,000**

This renewal certificate is valid from 27.07.2024 to 26.07.2025 and Renewal of NOC is issued under the conditions laid down.

20/2/25

Chief Engineer,WRD,SG&SWRDC,
Tharamani, Chennai-113.

7th Renewal of NOC Conditions pertaining to M/s.JSW Steel Limited,Salem District

1 **This No Objection certificate issued for ground water extraction applies to the referred ground water abstraction structure only.**

2 All the **other ground water abstraction structures** (dug wells/bore wells/dug-cum bore wells) other than the permitted one inside the plant area **should not be considered** for this permission.

3 Such structures as said in Condition No.2 should be closed or used only for **Rain water harvesting** purposes.

4 This Certificate is applicable for drawal of permitted Quantity of ground water only and **not for transportation.**

5 The Company should install necessary "flow meters" to the referred well /bore well and monitor the quantity which should not exceed the permitted level. **Proper Records** should be maintained continuously from the date of drawal. Monthly statement of daily drawal of water should be sent to the Executive Engineer, Groundwater Division, Salem as per format enclosed.

6 As and when the officials of Ground Water Wing of WRD inspect the site/premises, perusal of drawal records and water quality observations should be allowed.

7 **Rain water harvesting structure** is to be established as per the direction of this department. Rain water harvesting structures already exist inside the plant premises, it should be maintained properly.

8 **Violation of the above stipulations in any form may lead to cancellation of the permission accorded by the Government.**

9 The Company should be ready to pay the **levy/charges for drawal of ground water** for commercial purposes, if Government / Ground Water Authority imposes any such orders in future.

10 It is also informed that during the renewal of the NOC, depending upon the hydrogelogical condition the category of the area and the site conditions, the quantity will be vary from permitted quantity.

11 The handed over Bore Well to this Department for Water Level monitoring purpose should be maintained properly. The firm has to take the water level in the first week of every month & maintain a monthly water level Register and the Assistant Geologist concerned should monitor the water level data and also check whenever required.

12 As per the G.O.(Ms).No 142 PW(R2)Department dt:23.07.2014, NOC for water based industries should be renewed every year

13 This No Objection Certificate is applicable **only for the purpose of "Drinking& Domestic"**, if any deviation in the usage of ground water is found, the NOC accorded is automatically deemed to be cancelled.

14 The **Assistant Director, Groundwater Sub-Division/Assistant Geologist** of the respective District **would inspect** either the rain water harvesting structures established in the premises of the firm or the records maintained or even the drawal of ground water as and when needed and it is the mandatory of the firm to maintain the Rain water harvesting structure/ structures properly and show the records needed.

15 **If any information / Documents submitted by this firm is found to false / in correct or any data provided by the firm is found to be incorrect, the NOC issued to the firm will be cancelled by this department without any prior notice.**

Chief Engineer,WRD,SG&SWRDC,
Tharamani, Chennai-113.

ANNEXURE 5

ONLINE STACK EMISSION MONITORING & AMBIENT AIR QUALITY MONITORING REPORT

Online stack emission monitoring & Ambient air quality monitoring report for the period April 25 to Sep '25.

I. Online stack emission monitoring summary report (April 25 to Sep '25.)

Stack No.	Source name	Parameter	UoM	Month					
		Month		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	Sinter Machine (Sinter Plant I)	SPM	mg/Nm^3	85.84	80.68	91.12	83.20	80.06	74.07
2	Cooling System (Sinter Plant I)	SPM	mg/Nm^3	25.94	45.95	29.91	26.78	29.72	41.20
3	Dedusting System (Sinter Plant I)	SPM	mg/Nm^3	53.66	20.69	36.73	52.40	21.78	25.83
4	Dust Extraction System For RMHS (Sinter Plant I)	SPM	mg/Nm^3	21.44	19.01	22.44	19.80	20.72	25.66
5	Hot Stove (Blast Furnace I)	SPM	mg/Nm^3	14.60	15.80	17.17	19.80	27.50	16.45
		SO_2	mg/Nm^3	58.03	101.83	60.88	59.45	63.22	66.42
		NOx	mg/Nm^3	26.44	32.07	34.60	37.25	43.24	37.63
		CO	ppm	1575.00	1957.69	1527.50	1658.00	2375.81	1048.30
6	GCP Flare (Blast Furnace I) -Emergency stack	SPM	mg/Nm^3						
		SO_2	mg/Nm^3						
7	Stock House and RMHS Dedusting System (Blast Furnace I)	SPM	mg/Nm^3	26.24	26.11	25.57	27.80	21.40	19.68
8	Cast House Dedusting System (Blast Furnace I)	SPM	mg/Nm^3	30.98	25.17	33.01	32.50	28.45	27.48
9	Process Boiler (1x25, 1x8) TPH each (BF gas Stack)	SPM	mg/Nm^3	25.46	37.82	38.60	26.46	26.60	31.30
		SO_2	mg/Nm^3	44.72	32.26	36.77	48.50	54.47	42.27
		NOx	mg/Nm^3	96.29	91.58	99.61	76.29	81.72	71.96
10	Energy Optimizing Furnace (Steel Melting Shop I)	SPM	mg/Nm^3	30.12	28.40	39.16	24.12	35.81	49.60
11	Ladle Furnaces (Steel Melting Shop I)	SPM	mg/Nm^3	26.00	35.15	26.57	30.20	37.07	29.10
12	Continuous Casting Machine (Steel Melting Shop I)	SPM	mg/Nm^3						
13	Energy Optimizing Furnace (Steel Melting Shop II)	SPM	mg/Nm^3	35.14	30.63	38.44	21.20	34.43	32.99
14	Secondary Dedusting System EOF I&II (Combined SMS II)	SPM	mg/Nm^3	19.93	44.17	44.10	21.60	18.42	29.98
15	Sec. Dedusting System of LRF IV(Common) (SMS II)	SPM	mg/Nm^3	35.40	45.09	50.54	32.89	34.19	33.97
16	Ladle Furnaces(Common Stack) (Steel Melting Shop II)	SPM	mg/Nm^3	23.61	28.62	15.88	25.60	32.89	30.23
17	Vacuum Degasing Unit (Boiler) (Steel Melting Shop II)	SPM	mg/Nm^3	20.57	30.47	15.82	21.20	20.30	26.54
		SO_2	mg/Nm^3	46.71	24.45	39.17	48.90	78.36	56.27
		NOx	mg/Nm^3	66.46	70.62	84.39	65.40	91.13	89.22
18	Steam Exhaust System 1 (Bloom Caster	SPM	mg/Nm^3						
19	Steam Exhaust System 2 (Bloom Caster	SPM	mg/Nm^3						
20	Cut Fumes Exhaust System (Bloom Caster)	SPM	mg/Nm^3						
21	Reheating Furnace (Furnace 1 No2 Chimney) (BLM)	SPM	mg/Nm^3	28.03	44.17	19.43	27.40	39.42	44.64
22	Reheating Furnace (Furnace 1 No1 Chimney) (BLM)	SPM	mg/Nm^3	39.17	27.91	20.24	22.10	30.17	18.85
23	Coke Oven Chimney I (Coke Oven) -Emergency stack	NA	NA						
		NA	NA						
24	Coke Oven Chimney II (Coke Oven) -Emergency stack	NA	NA						
		NA	NA						
25	Coke Oven Chimney III (Coke Oven) -Emergency stack	NA	NA						
		NA	NA						

Stack No.	Source name	Parameter	UoM	Month					
		Month		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
26	Waste Heat Recovery Boiler I (Coke Oven)	SPM	mg/Nm^3	25.41	14.43	15.52	17.20	19.52	33.71
		SO_2	mg/Nm^3	272.15	214.84	188.60	284.50	210.72	215.75
		NOx	mg/Nm^3	98.35	145.37	106.06	60.50	48.82	132.31
27	Waste Heat Recovery Boiler II (Coke Oven)	SPM	mg/Nm^3	32.95	26.29	17.19	33.40	17.31	24.43
		SO_2	mg/Nm^3	301.61	222.22	221.33	302.35	335.50	268.45
		NOx	mg/Nm^3	174.78	160.16	129.48	77.45	106.44	88.99
28	Waste Heat Recovery Boiler III (Coke Oven)	SPM	mg/Nm^3	26.96	19.69	25.86	27.50	26.33	29.33
		SO_2	mg/Nm^3	154.97	162.60	187.84	156.80	153.57	194.47
		NOx	mg/Nm^3	56.92	145.29	125.80	58.78	60.90	74.89
29	Waste Heat Recovery Boiler IV (Coke Oven)	SPM	mg/Nm^3	25.16	24.89	28.26	24.90	27.69	26.40
		SO_2	mg/Nm^3	165.69	167.40	200.66	171.40	181.80	125.96
		NOx	mg/Nm^3	122.35	121.77	144.60	125.80	103.65	106.71
30	Waste Heat Recovery Boiler V (Coke Oven)	SPM	mg/Nm^3	15.77	18.25	13.98	16.70	30.83	22.95
		SO_2	mg/Nm^3	263.98	185.75	185.96	265.70	316.13	305.69
		NOx	mg/Nm^3	112.23	155.50	124.73	115.65	243.69	153.91
31	BF Gas Fired Boiler	SPM	mg/Nm^3	31.97	34.88	39.55	32.40	34.09	26.58
		SO_2	mg/Nm^3	39.17	56.60	41.29	38.40	48.38	42.58
		NOx	mg/Nm^3	94.04	73.77	93.65	105.00	127.95	129.44
32	Reheating Furnace (Bar & Rod Mill)	SPM	mg/Nm^3	28.81	32.10	38.42	28.81	28.71	41.04
33	Sinter Machine (Sinter Plant II)	SPM	mg/Nm^3	66.63	71.80	74.94	78.10	70.46	57.38
34	Plant Dedusting and Cooling (Sinter Plant II)	SPM	mg/Nm^3	61.28	46.37	59.96	55.80	56.03	31.61
35	Crushing of Fuel & Raw Materials (Sinter Plant II)	SPM	mg/Nm^3	11.34	24.02	21.12	22.80	28.53	25.80
36	Hot Stove (Blast Furnace II)	SPM	mg/Nm^3	25.03	18.00	19.20	27.00	26.72	28.92
		SO_2	mg/Nm^3	57.00	53.33	113.50	56.00	64.34	61.47
		NOx	mg/Nm^3	24.42	23.86	84.03	24.20	30.89	35.82
		CO	ppm	1349.10	1786.88	1485.00	1289.00	1518.39	1368.35
37	GCP Flare (Blast Furnace II) -Emergency stack	SPM	mg/Nm^3						
		SO_2	mg/Nm^3						
38	Stock House Dedusting & RMHS (Blast Furnace II)	SPM	mg/Nm^3	19.49	20.27	23.29	20.50	30.09	17.28
		SO_2	mg/Nm^3						
39	Cast House Dedusting System (Blast Furnace II)	SPM	mg/Nm^3	18.96	32.42	37.80	19.50	23.25	18.81
40	Pulverized Coal Injection (Blast Furnace)	SPM	mg/Nm^3	36.68	27.07	36.09	38.90	30.40	37.17
41	Steam Exhaust System - CCM-III	SPM	mg/Nm^3						
		SPM	mg/Nm^3						
42	CPPII-AFBC Boiler	SPM	mg/Nm^3	14.59	16.80	14.69	18.52	25.66	15.52
		SO_2	mg/Nm^3	261.05	348.09	262.08	265.40	347.72	299.13
		NOx	mg/Nm^3	169.67	134.79	152.96	172.30	323.09	259.37

II. Continuous Ambient Air Quality Monitoring Results (Apr '25 to Sep'25)										
Month	**CAAQMS#1**					**CAAQMS#2**				
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO_2**	**CO**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**	**CO**
UoM	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**mg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**mg/m³**
Apr-25	51	33	12	5	0.12	51.83	36	17	9.45	0.38
May-25	39	23	9	4	0.1	47.7	35	9	12.2	0.28
Jun-25	36	17	11	4	0.2	45	32	6	8.82	0.53
Jul-25	37	15	10	5	0.16	43	32	8	5.98	0.74
Aug-25	38	19	9	6	0	43	24	15	7.2	0.63
Sep-25	37	26	9	6	0	40	28	12	7.12	0.5

Month	**CAAQMS#3**					**CAAQMS#4**				
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO_2**	**CO**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**	**CO**
UoM	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**mg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**mg/m³**
Apr-25	61.44	27.64	9.40	5.60	0.70	40.95	25.54	3.89	8.60	0.36
May-25	49.82	17.37	21.54	16.13	0.70	42.63	16.41	4.45	10.16	0.28
Jun-25	62.53	35.58	12.37	14.91	0.39	43.51	17.24	4.69	6.94	0.53
Jul-25	63.48	50.99	16.23	13.99	0.21	46.94	17.29	5.54	4.03	0.70
Aug-25	55.86	23.56	16.40	16.04	0.50	35.04	24.83	5.89	4.80	0.74
Sep-25	68.38	33.35	15.85	14.65	0.45	64.80	26.58	4.30	5.35	0.33

Tolerance limit: PM10: 100 µg/m³, PM2.5: 60 µg/m³, NOx: 80 µg/m³, SO_2: 80 µg/m³,
CO: 1 hr avg - 4 mg/m³ , 8 hr avg - 2 mg/m³

The results are well within the prescribed standards.

III. Ambient Air Quality Monitoring results of NABL Accredited laboratory								
Month	**AQ-1 (Unit - µg/m3)**				**AQ-2 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	53.29	25.06	14.66	14.75	55.47	30.26	15.05	13.71
May-25	42.39	20.19	11.16	15.60	44.00	24.26	11.21	14.26
Jun-25	43.23	21.44	10.38	14.56	45.72	20.57	9.94	12.79
Jul-25	46.82	22.80	10.01	13.47	48.91	23.01	9.22	12.40
Aug-25	51.89	26.72	8.91	14.18	53.66	29.46	8.42	13.03
Sep-25	55.46	30.28	8.14	14.32	58.57	29.19	7.62	13.33
Month	**AQ-3 (Unit - µg/m3)**				**AQ-4 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	51.80	24.60	11.40	9.40	50.50	23.90	13.80	10.40
May-25	44.80	23.10	10.30	14.60	43.10	21.00	9.20	12.90
Jun-25	45.64	21.74	9.62	13.60	42.81	20.04	8.62	12.16
Jul-25	50.72	22.87	10.09	14.69	56.00	31.29	9.00	13.65
Aug-25	58.16	30.82	9.41	15.19	56.18	32.71	8.22	14.35
Sep-25	55.47	33.41	8.79	14.45	58.86	33.98	8.00	15.61
Month	**AQ-5 (Unit - µg/m3)**				**AQ-6 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	51.50	25.00	14.00	14.00	50.60	27.50	16.20	12.40
May-25	42.90	22.70	10.50	15.70	41.60	20.00	9.60	13.90
Jun-25	44.67	22.81	9.76	14.65	42.34	22.80	10.77	15.72
Jul-25	49.89	22.80	10.77	15.72	51.30	26.01	9.47	14.15
Aug-25	57.41	33.40	9.55	16.72	50.53	27.61	8.64	14.87
Sep-25	55.41	33.81	8.42	16.51	50.27	30.51	7.77	15.16
Month	**AQ-7 (Unit - µg/m3)**				**AQ-8 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	45.72	22.99	14.25	11.67	47.16	23.50	12.66	21.51
May-25	37.57	19.27	10.58	13.68	34.75	21.64	9.38	14.28
Jun-25	40.88	19.26	9.25	12.78	40.46	18.61	10.36	12.56
Jul-25	46.31	23.88	10.12	13.57	42.56	21.71	9.46	11.24
Aug-25	48.69	26.61	9.09	14.87	43.49	23.01	8.63	11.81
Sep-25	47.79	26.13	8.40	15.05	45.91	27.08	7.86	13.42
Month	**AQ-9 (Unit - µg/m3)**				**AQ-10 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	44.80	24.70	13.60	12.30	49.1	25.8	12.5	14.4
May-25	34.00	21.10	9.70	12.90	31.10	20.10	9.60	15.00
Jun-25	38.97	21.19	9.02	12.02	36.84	19.12	9.40	13.89
Jul-25	43.18	23.66	9.04	10.99	40.62	22.82	8.65	12.33
Aug-25	44.44	23.56	8.12	11.32	41.43	22.90	7.89	12.96
Sep-25	43.35	25.69	7.41	12.71	44.45	26.65	7.21	13.62
Month	**AQ-11 (Unit - µg/m3)**				**AQ-12 (Unit - µg/m3)**			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO2**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO2**
Apr-25	46.8	24.2	13.7	10.1	45.50	26.00	13.90	12.90
May-25	31.70	18.40	9.10	14.20	34.70	18.00	9.80	13.90
Jun-25	34.66	18.31	8.45	13.30	35.87	22.80	10.77	15.72
Jul-25	38.91	22.80	10.77	15.72	39.92	20.70	7.82	11.31
Aug-25	41.18	24.40	6.55	13.46	42.69	23.21	7.14	11.89
Sep-25	40.83	22.85	5.98	13.23	44.24	24.95	6.52	11.62

Tolerance limit: PM10: 100 µg/m^3, PM2.5: 60 µg/m^3, NO2: 80 µg/m3, SO_2: 80 µg/m^3

IV. Analysis of Ambient Air Quality Monitoring results

PM_{10} in µg/m^3

Location	AQ-1	AQ-2	AQ-3	AQ-4	AQ-5	AQ-6	AQ-7	AQ-8	AQ-9	AQ-10	AQ-11	AQ-12
Minimum	42.39	44.00	44.80	42.81	42.90	41.60	37.57	34.75	34.00	31.10	31.70	34.70
Maximum	55.46	58.57	58.16	58.86	57.41	51.30	48.69	47.16	44.80	49.10	46.80	45.50
Average	48.85	51.06	51.10	51.24	50.30	47.77	44.49	42.39	41.46	40.59	39.01	40.49
Standard deviation	5.48	5.75	5.27	6.97	5.74	4.51	4.34	4.44	4.21	6.20	5.31	4.45
98th Percentile	55.24	58.26	57.89	58.59	57.21	51.23	48.60	47.04	44.76	48.64	46.24	45.37

$PM_{2.5}$ in µg/m^3

Location	AQ1	AQ-2	AQ-3	AQ-4	AQ-5	AQ-6	AQ-7	AQ-8	AQ-9	AQ-10	AQ-11	AQ-12
Minimum	20.19	20.57	21.74	20.04	22.70	20.00	19.26	18.61	21.10	19.12	18.31	18.00
Maximum	30.28	30.26	33.41	33.98	33.81	30.51	26.61	27.08	25.69	26.65	24.40	26.00
Average	24.42	26.13	26.09	27.15	26.75	25.74	23.02	22.59	23.32	22.90	21.83	22.61
Standard deviation	3.73	4.04	4.83	6.22	5.38	3.77	3.21	2.78	1.85	2.99	2.77	2.91
98th Percentile	29.92	30.18	33.15	33.85	33.77	30.22	26.56	26.72	25.59	26.57	24.38	25.90

SO_2 in µg/m^3

Location	AQ-1	AQ-2	AQ-3	AQ-4	AQ-5	AQ-6	AQ-7	AQ-8	AQ-9	AQ-10	AQ-11	AQ-12
Minimum	8.14	7.62	8.79	8.00	8.42	7.77	8.40	7.86	7.41	7.21	5.98	6.52
Maximum	14.66	15.05	11.40	13.80	14.00	16.20	14.25	12.66	13.60	12.50	13.70	13.90
Average	10.54	10.24	9.94	9.47	10.50	10.41	10.28	9.73	9.48	9.21	9.09	9.33
Standard deviation	2.28	2.66	0.89	2.17	1.90	3.01	2.09	1.67	2.17	1.85	2.85	2.76
98th Percentile	14.31	14.67	11.29	13.34	13.68	15.66	13.88	12.43	13.21	12.21	13.41	13.59

NO2 in µg/m^3

Location	AQ-1	AQ-2	AQ-3	AQ-4	AQ-5	AQ-6	AQ-7	AQ-8	AQ-9	AQ-10	AQ-11	AQ-12
Minimum	13.47	12.40	9.40	10.40	14.00	12.40	11.67	11.24	10.99	12.33	10.10	11.31
Maximum	15.60	14.26	15.19	15.61	16.72	15.72	15.05	21.51	12.90	15.00	15.72	15.72
Average	14.48	13.25	13.66	13.18	15.55	14.37	13.60	14.14	12.04	13.70	13.34	12.89
Standard deviation	0.70	0.67	2.15	1.81	1.05	1.17	1.27	3.77	0.76	0.96	1.84	1.68
98th Percentile	15.52	14.21	15.14	15.48	16.70	15.66	15.03	20.79	12.88	14.94	15.57	15.54

Tolerance limit: PM10: 100 µg/m^3, PM2.5: 60 µg/m^3, NO2: 80 µg/m3, SO_2: 80 µg/m^3

AAQ1: Mr.Murugesan - Pottaneri, AAQ2:Mr. Gopal - Malamannor, AAQ3:Mr.Surendran -Kavundanoor, AAQ4:Mr.Manivasagam - Soliyur, AAQ5:New Guest House - Township, AAQ6: Mr.Sellappan – Pudur panakadu, AAQ7:Mr.Gandhi – Kuttapatti Pudur, AAQ8:Mr.Santhanam - Ervadi, AAQ9:Mr. Arunasalam - Ervadi, AAQ10:Mr.Thangavel – Amarathan Kadu, AAQ11:Mr. Mahalingam – Kattuvalavu, Pottaneri, AAQ12:Mr. Venkatesan – Pottaneri.

The results are within the norms prescribed by CPCB.

Fugitive Emission Monitoring

S.NO	PLANT	LOCATION	PARAMETER	UoM	Standard	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	Narth Gate	North Gate Area (Near RMHS)	PM 10 ug/m3	ug/m3	4000	871	769	690	2263	2122	2207
			SO2	ug/m3	200	23	24	21	27	33	41
			Nox	ug/m3	150	29	28	25	32	37	35
			CO	ug/m3	5000	272	263	259	362	384	397
2	Narth Gate	North Gate Area (Near vehicle parking area)	PM10	ug/m3	4000	782	716	695	1984	1897	1980
			SO2	ug/m3	200	21	22	20	29	36	39
			Nox	ug/m3	150	33	29	26	31	39	42
			CO	ug/m3	5000	395	362	355	398	373	390
3	SP storage yard	Old Weigh Bridge Area	PM10	ug/m3	4000	799	792	720	1098	1156	1257
			SO2	ug/m3	200	29	26	23	26	31	34
			Nox	ug/m3	150	30	28	24	29	40	38
			CO	ug/m3	5000	341	336	301	359	366	379
4	Wagon Tippler	Wagon Tippler Area	PM 10 ug/m3	ug/m3	4000	1042	1031	997	1432	1302	1415
			SO2	ug/m3	200	30	31	28	32	27	36
			Nox	ug/m3	150	33	34	30	36	29	31
			CO	ug/m3	5000	307	324	298	378	344	360
5	Hazardous shet	Near Hazardous shet area	PM 10 ug/m3	ug/m3	4000	-	-	712	1242	1180	1050
			SO2	ug/m3	200	-	-	23	26	31	35
			Nox	ug/m3	150	-	-	31	33	37	40
			CO	ug/m3	5000	-	-	362	375	360	358
6	Sinter Plant - I	SP- I Near Cooling Fan Area & RMHS area	PM10	ug/m3	4000	1351	1156	1102	2156	2213	2105
			SO2	ug/m3	200	28	23	20	25	30	33
			Nox	ug/m3	150	37	31	29	30	36	34
			CO	ug/m3	5000	356	316	301	346	377	364
7	Sinter Plant - II	SP- II Near Waste Gas Fan Area	PM 10 ug/m3	ug/m3	4000	989	846	759	1889	1978	2073
			SO2	ug/m3	200	25	21	23	26	33	36
			Nox	ug/m3	150	30	25	26	36	39	36
			CO	ug/m3	5000	334	298	303	389	369	373
8	SP- II	SP- II Raw Material Yard area	PM10	ug/m3	4000	997	867	850	1762	2091	2156
			SO2	ug/m3	200	27	22	25	28	35	40
			Nox	ug/m3	150	36	31	33	31	29	33
			CO	ug/m3	5000	352	320	319	392	359	355
9	BF- I	BF-I Cast House Area	PM10	ug/m3	4000	856	823	890	1201	1153	1020
			SO2	ug/m3	200	35	31	30	33	29	31
			Nox	ug/m3	150	46	40	43	47	41	40
			CO	ug/m3	5000	512	431	438	486	474	450
10	BF- I	BF- I Near Stock House	PM 10 ug/m3	ug/m3	4000	1084	984	1020	1163	1245	1133
			SO2	ug/m3	200	28	23	20	27	31	39
			Nox	ug/m3	150	42	36	31	39	35	35
			CO	ug/m3	5000	310	296	305	385	390	399
11	BF- II	BF-II Cast House Area	PM10	ug/m3	4000	956	910	986	1108	1035	1112
			SO2	ug/m3	200	36	32	35	26	29	36
			Nox	ug/m3	150	46	40	39	37	40	45
			CO	ug/m3	5000	413	396	366	397	413	420
12	BF- II	BF-II Near Stock House	PM 10 ug/m3	ug/m3	4000	942	905	1035	1941	2103	2192
			SO2	ug/m3	200	25	21	26	36	39	45
			Nox	ug/m3	150	29	24	28	42	46	42
			CO	ug/m3	5000	312	283	333	406	422	419
13	BF- II	BF- II Raw Material Yard area	PM 10 ug/m3	ug/m3	4000	859	756	915	1989	2137	2016
			SO2	ug/m3	200	29	21	26	31	35	33
			Nox	ug/m3	150	33	30	28	39	42	39
			CO	ug/m3	5000	340	321	312	376	391	399
14	PCI	PCI Road Area (CONVEYOR JUNCTION –III)	PM 10 ug/m3	ug/m3	4000	1264	1059	1012	2012	2150	2250
			SO2	ug/m3	200	30	26	22	27	30	39
			Nox	ug/m3	150	37	31	29	35	39	46
			CO	ug/m3	5000	312	293	280	342	370	381
15	BF- II	BF-II junction (Near canteen area)	PM10	ug/m3	4000	812	756	925	1375	1146	1293
			SO2	ug/m3	200	32	28	23	25	31	34
			Nox	ug/m3	150	39	33	31	33	40	43
			CO	ug/m3	5000	398	345	319	368	391	396
16	GGBFS (RMHS)	GGBFS Near Mill area	PM10	ug/m3	4000	1231	1120	1108	1841	1913	1780
			SO2	ug/m3	200	26	22	20	29	25	30
			Nox	ug/m3	150	29	27	30	37	32	36
			CO	ug/m3	5000	315	284	299	376	393	397
17	GGBFS	GGBFS Screening area	PM 10 ug/m3	ug/m3	4000	1123	1004	1050	1512	1438	1264
			SO2	ug/m3	200	19	18	21	21	29	32
			Nox	ug/m3	150	25	21	26	26	30	34
			CO	ug/m3	5000	256	232	255	255	302	350
18	EOF - I	EOF-I Near Furnace	PM10	ug/m3	4000	898	782	867	1381	2390	2234
			SO2	ug/m3	200	32	30	32	36	40	46
			Nox	ug/m3	150	46	41	45	49	45	43
			CO	ug/m3	5000	456	431	460	481	470	476

Fugitive Emission Monitoring

S.NO	PLANT	LOCATION	PARAMETER	UoM	Standard	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
19	EOF -II	EOF-II Near Furnace	PM 10 ug/m3	ug/m3	4000	1023	985	1035	1313	2486	2304
			SO2	ug/m3	200	33	28	27	35	30	35
			Nox	ug/m3	150	43	35	33	41	35	33
			CO	ug/m3	5000	513	482	473	496	390	405
20	Near LRF I & IV	LRF- I &IV Furnace Area	PM10	ug/m3	4000	1146	1063	1023	1127	1045	1168
			SO2	ug/m3	200	35	31	30	31	36	32
			Nox	ug/m3	150	43	39	34	37	40	38
			CO	ug/m3	5000	362	299	319	367	392	388
21	SMS	Scrap Yard Area	PM 10 ug/m3	ug/m3	4000	1361	1241	1369	1423	1631	1934
			SO2	ug/m3	200	25	22	25	36	31	35
			Nox	ug/m3	150	41	38	36	43	35	31
			CO	ug/m3	5000	289	269	364	364	386	390
22	SMS	LRF II&III	PM 10 ug/m3	ug/m3	4000	1234	1120	1126	1834	1732	1903
			SO2	ug/m3	200	43	40	41	40	35	39
			Nox	ug/m3	150	53	49	45	48	41	46
			CO	ug/m3	5000	462	435	486	512	497	467
23	SMS	CCM- III	PM_{10}	ug/m^3	4000	1025	968	998	1674	1863	1966
			SO_2	ug/m^3	200	36	32	30	36	40	36
			Nox	ug/m^3	150	47	45	41	45	39	35
			CO	ug/m^3	5000	386	356	373	432	480	464
24	SMS	SMS Lancing area	PM 10 ug/m^3	ug/m^3	4000	946	912	956	2141	1937	1846
			SO2	ug/m^3	200	36	32	33	39	31	39
			Nox	ug/m^3	150	53	50	49	51	46	44
			CO	ug/m^3	5000	456	421	463	484	461	491
25	SMS	SMS Slag crusher unit	PM 10 ug/m^3	ug/m^3	4000	1431	1251	1203	1767	1907	1987
			SO2	ug/m^3	200	32	28	22	30	39	40
			Nox	ug/m^3	150	38	32	29	43	46	43
			CO	ug/m^3	5000	340	312	339	421	456	420
26	BRM	BRM (Near Furnace Area)	PM10	ug/m3	4000	765	711	809	1137	1354	1163
			SO2	ug/m3	200	32	26	29	31	37	39
			Nox	ug/m3	150	53	48	45	48	43	40
			CO	ug/m3	5000	413	385	436	468	480	489
27	BLM	BLM (Near Furnace Area)	PM 10 ug/m3	ug/m3	4000	756	721	811	1249	1132	1097
			SO2	ug/m3	200	34	30	33	37	31	33
			Nox	ug/m3	150	48	41	46	45	40	42
			CO	ug/m3	5000	430	397	460	494	450	449
28	Grinding Mill	Ball Mill	PM 10 ug/m3	ug/m3	4000	997	962	983	1352	1165	1101
			SO2	ug/m3	200	32	28	23	35	39	36
			Nox	ug/m3	150	41	26	21	41	46	40
			CO	ug/m3	5000	389	341	402	442	470	482
29	COP	COP Coal Yard	PM10	ug/m3	4000	1155	1051	1121	1367	1567	1451
			SO2	ug/m3	200	22	20	26	29	33	36
			Nox	ug/m3	150	40	36	34	37	40	32
			CO	ug/m3	5000	381	314	364	406	456	477
30	COP	COP–Battery Area	PM 10 ug/m3	ug/m3	4000	923	894	917	1426	1287	1250
			SO2	ug/m3	200	31	26	23	32	36	39
			Nox	ug/m3	150	49	44	40	45	40	41
			CO	ug/m3	5000	456	434	477	512	560	577
31	COP	COP-Weigh Bridge Area	PM10	ug/m3	4000	1263	1120	1110	1196	1298	1120
			SO2	ug/m3	200	33	31	29	30	37	40
			Nox	ug/m3	150	44	40	39	42	49	43
			CO	ug/m3	5000	384	312	355	421	497	455
32	COP	COP (Near Coke cutter area)	PM10	ug/m3	4000	1263	1032	1120	2098	1279	1134
			SO2	ug/m3	200	25	22	26	32	29	31
			Nox	ug/m3	150	33	29	30	39	35	36
			CO	ug/m3	5000	384	341	360	426	473	499
33	COP	(Near Stamping Station Area)	PM 10 ug/m3	ug/m3	4000	889	810	889	1001	1147	1083
			SO2	ug/m3	200	27	23	20	25	30	33
			Nox	ug/m3	150	44	41	35	33	38	42
			CO	ug/m3	5000	384	327	398	482	467	491
34	COP	(Near Coke Dryer area	PM10	ug/m3	4000	1153	1022	1113	1194	1347	1264
			SO2	ug/m3	200	30	25	27	29	38	40
			Nox	ug/m3	150	43	38	35	37	41	35
			CO	ug/m3	5000	421	401	430	486	460	475

ANNEXURE 6

DETAILS OF APC MEASURES PROVIDED IN STEEL & CPPII

Details of Air Pollution Control measures provided in Steel & CPPII			
Stack No	**Stack attached to**	**Stack Type**	**Air Pollution Control Equipment (APC)**
1	SP#1 - Sinter machine waste gas fan stack	Process	ESP with stack
2	SP#1 - Cooling system stack	Non- Process	ESP with stack
3	SP#1 - Dedusting system stack	Non- Process	Bag Filters with stack
4	SP#1 - RMHS dust extraction system	Non- Process	Bag Filters with stack
5	SP#2 - Sinter machine waste gas fan stack	Process	ESP with stack
6	SP#2 - Dedusting and cooling system stack	Non- Process	ESP with stack
7	SP#2 - Crushing of fuel and raw materials dedusting stack	Non- Process	Bag Filters with stack
8	Coke Quenching Tower	Non- Process	Grit Arrester stack
9	COP - Coke oven battery #1 emergency stack# 1A & 1B	Process	Stack
10	COP - Coke oven battery#2 emergency stack	Process	Stack
11	COP - Coke oven battery#3 emergency stack	Process	Stack
12	Coke cutter dedusting system stack (Coke Oven)	Non- Process	Bag Filter with stack
13	Coke Dryer dedusting system stack (Coke Oven)	Non- Process	Bag Filter with stack
14	COP - Waste Heat Recovery Boiler # 1 stack	Process	Stack
15	COP - Waste Heat Recovery Boiler # 2 stack	Process	Stack
16	COP - Waste Heat Recovery Boiler # 3 stack	Process	Stack
17	COP - Waste Heat Recovery Boiler # 4 stack	Process	Stack
18	COP - Waste Heat Recovery Boiler # 5 stack	Process	Stack
19	BF Gas Fired Boiler	Process	Stack
20	BF#1 - Hot stove stack	Process	Stack
21	BF#1 - GCP flare stack (Emergency stack)	Non- Process	Venturi Scrubber with stack
22	BF#1 - Stock house dedusting	Non- Process	Bag Filters with stack
23	BF#1- Cast house dedusting system stack	Non- Process	Bag Filters with stack
24	BF#2- Hot stove stack	Process	Stack
25	BF#2 - GCP flare stack (Emergency stack)	Non- Process	Bag Filters with stack
26	BF#2 - Stock house dedusting & RMH system stack	Non- Process	Bag Filters with stack
27	BF#2 - Cast house dedusting system stack	Non- Process	Bag Filters with stack
28	BF - Pulverised Coal Injection unit	Non- Process	Bag Filters with stack
29	Process Boilers (1 x 25 TPH & 1 X 8 TPH)	Process	Common Stack
30	EOF#1- Primary dedusting system stack	Process	Venturi Scrubber with stack
31	EOF#2 - Primary dedusting system stack	Process	Venturi Scrubber with stack
32	EOF#1&2 - Secondary dedusting system stack	Non- Process	Bag Filter with stack
33	LRF#1 - Primary & LRF#1 to 4 secondary dedusting system stack	Non- Process	Bag Filter with stack
34	LRF#2,3,4 - Primary dedusting system stack	Process	Bag Filter with stack
35	Vacuum degassing boiler#1 & #2 stack	Process	Stack
36	CCM#1 Steam exhaust system stack	Non- Process	Stack

Details of Air Pollution Control measures provided in Steel & CPPII			
Stack No	**Stack attached to**	**Stack Type**	**Air Pollution Control Equipment (APC)**
37	CCM#1 -Billet grinding machine stack	Non- Process	Bag Filters with stack
38	CCM#2 Steam exhaust system stack #1 & #2	Non- Process	Stack
39	CCM#2 - Cut fumes exhaust system stack	Non- Process	Stack
40	CCM#2 -Billet grinding machine stack	Non- Process	Bag Filters with stack
41	CCM#3 - Steam exhaust system stack #1	Non- Process	Stack
42	CCM#3 - Steam exhaust system stack #2	Non- Process	Stack
43	CCM#3 -Billet grinding machine stack	Non- Process	Bag Filters with stack
44	BLM - Reheating furnace stack #1	Process	Stack
45	BLM - Reheating furnace stack #2	Process	Stack
46	BRM- Reheating furnace stack #1 & 2	Process	Stack
47	Pickling Plant- Acid Fumes exhaust system stack	Non- Process	Wet scrubber with stack
48	Pickling Plant- Acid bath - Hot water Generator Stack	Process	Stack
49	Pickling Plant- ARP - Hot water Generator Stack	Process	Stack
50	Pickling Plant- MEE – Thermic fluid Heater Stack	Process	Stack
51	Batching plant#1 Cement silo vent stack	Non- Process	Bag Filters with stack
52	Batching plant#2 Cement silo vent stack	Non- Process	Bag Filters with stack
53	Limekiln(Not in Operation)	Non- Process	Not in operation
54	COP-DG Set -625 KVA Stack	Non- Process	Acoustic enclosures with Stack
55	Process Boilers area - DG set -1250 KVA stack	Non- Process	Acoustic enclosures with Stack
56	EOF#1 - DG Set -625 KVA stack	Non- Process	Acoustic enclosures with Stack
57	EOF#1 - DG Set -625 KVA stack	Non- Process	Acoustic enclosures with Stack
58	EOF#1 - DG Set -275 KVA Stack	Non- Process -Emergency stack	Acoustic enclosures with stack
59	EOF#2 - DG Set - 275 KVA Stack	Non- Process -Emergency stack	Acoustic enclosures with stack
60	EOF#2 - DG Set - 1250 KVA Stack	Non- Process -Emergency stack	Acoustic enclosures with stack
61	CCM#3 - DG Set - 1250 KVA stack	Non- Process -Emergency stack	Acoustic enclosures with stack
62	BRM - DG set - 650 KVA - stack	Non- Process -Emergency stack	Acoustic enclosures with stack
63	Pickling plant - DG Set - 400 KVA - stack	Non- Process -Emergency stack	Acoustic enclosures with stack
64	Coal fired boiler (127 T/HR)	Process	ESP with stack
65	Coal crusher house	Non- Process	Bag Filters with stack
66	Coal screening section	Non- Process	Bag Filters with stack
67	Raw material transfer and discharge point	Non- Process	Bag Filters with stack
68	Fly ash storage silo	Non- Process	Bag Filters with stack
69	Bottom ash storage silo	Non- Process	Bag Filters with stack
70	Diesel generator set – 500 KVA	Non- Process -Emergency stack	Acoustic enclosures with stack
71	Diesel generator set – 275 KVA	Non- Process -Emergency stack	Acoustic enclosures with stack

ANNEXURE 7

COMPLIANCE STATUS REPORT TO THE CREP CONDITIONS

Compliance status report for the conditions prescribed in the Corporate Responsibility for Environmental Protection (CREP) to our plant

Sl. No.	Condition	Compliance Status/Action Taken
1.	Coke Oven Plant: To meet the parameters PLD (% leaking doors), PLL (% leaking lids), PLO (% leaking off take) of the notified standards under EPA. To rebuild at least 40% of the coke oven batteries* in next 10 years by December 2012.	Our works installed with Non-recovery type coke oven (0.5 MTPA) with horizontal coal charging system and the requirements is not applicable.
2	Steel Melting Shop To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).	SMS comprises of Energy Optimizing Furnaces wherein a "wet scrubbing system" comprising of a Down comer, quench chamber, venturi scrubber and cyclone separator and the cleaned gas sent through a chimney. The secondary steel making unit viz. Ladle Furnace is already equipped with a dedusting system comprising of bag filters as Air Pollution Control measure and after bag filters flue gas is vented through a stack. Dust collected from the bag filters is used in the Sinter Plant. Dedicated secondary dedusting systems are installed and in operations for EOF & LRF and fugitive emissions are significantly reduced. Dedicated dust monitoring systems are installed in the respective stacks and the real time parameters are connected with CAC,TNPCB
3	**Blast Furnace** - Direct inject of reducing agents in blast furnace	Pulverized Coal injection system installed and in operations and bag filters are installed as an air pollution control measures (bag filter with stack). The rate of pulverized coal injection is increased (upto approx. 137 kg/THM) and the implementation resulted in reduction of coke consumption in BF which leads to energy and GHG emission reduction.
4	**Solid Waste/Hazardous Waste Management** Utilization of Steel Melting Shop (SMS) / Blast Furnace (BF) slag as per the following. · By 2004 – 70% · By 2006 – 80% and · By 2007 – 100% **Hazardous Waste:**	The entire Blast Furnace Slag is converted to Granulated slag and used in slag grinding unit for GGBFS production. SMS slag is sent for metal recovery system and after crushing into various size. Based on the applications crushed slag is used internal applications including paver making facility & sent cement industries. At present the utilization level varying from 90 -95 %, to meet 100 % utilization we approached CSIR-CRRI for slag product modification and scheduled use for road making application with state government approval.

	- Charge of tar sludge/ETP sludge to coke oven by June 2003. - - Inventorization of Hazardous waste as per Hazardous waste (M & H) Rules, 1989 as amended in 2000 and implementation of the rules by December 2003. (Tar sludge, acid sludge, waste lubricating oil and type fuel fall in the category of HZ).	Our coke oven plant is non-recovery type and hence Tar sludge & ETP sludge generation is not applicable. The waste oil and other hazardous wastes generated is being disposed to authorized vendors as per the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 as amended.
5	**Water Conservation / Water Pollution** - To reduce specific water consumption to 5 m3/ t for long products and 8 m^3/ t for flat products by December 2005.	We are presently manufacturing only long products and our specific water consumption is well within the prescribed limit. Specific water consumption is varying between 2.2 to 2.3 m3/tcs and PM Trophy methodology is adopted for calculating specific water consumption.
6	Installation of continuous stack monitoring	There are 28 nos. of Process stacks. Dust & Gaseous emission monitoring systems are installed as per the MoEF&CC 2012 notifications and the real time emission data of SPM, SO2 & NOx and CO (BF) are transmitted to the Care Air Centre of TNPCB and CPCB servers. There are 34 nos. of Non-process stacks. Dust emission monitoring systems are installed as per the MoEF&CC 2012 notifications and the real time emission data of SPM, SO2 & NOx and CO (BF) are transmitted to the Care Air Centre of TNPCB and CPCB servers Apart from the above, TNPCB is conducting bi-annual survey and Manual monitoring is being conducted by a NABL accredited external laboratory on monthly basis. The monitoring results are well within the permissible limits.
7	The unit shall operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to TNPCB every three months.	The pollution control equipment are being operated efficiently and effectively, proper records are being maintained for running hours, failure time and efficiency. Any failure leads to APC is resulted exceedance alarm from TNPCB server and appropriate correction and corrective action reports are being submitted to TNPCB on monthly basis.
8	To implement the recommendations of Life Cycle Assessment (LCA) Study sponsored by MoEF by December 2003.	Being Complied. LCA study and EPD process is being done to the final products with defined frequency.
9	The industry will initiate the steps to adopt the following clean technologies/measures to improve the	a. We are operating mini Blast Furnaces and BF gas top gas pressure (1.2 – 1.5

	performance of industry towards production, energy and environment. a Energy recovery of top blast furnace (BF) gas. a Use of tar-free runner linings. a De-dusting of cast house at tap holes, runners, skimmers ladle and charging points. a Suppression of fugitive emissions using nitrogen gas or other inert gas. a To study the possibility of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation. a Processing of the waste containing flux & ferrous wastes through waste recycling plant. a To implement rainwater harvesting. a Reduction of green house gases by, • Reduction in power consumption. • Use of by-products gases for power generation. • Promotion of energy optimization technology including energy audit. • To set targets for resource conservation such as raw material, energy and water consumption to match International	bar) is not adequate to install TRT. b. Our coke oven plant is non-recovery type and hence not applicable. c. De-dusting systems are installed in operations at BF-I & II cast house covering tap holes, runners, at SMS skimmers ladles and charging points. d. Water sprinkling system, Dry & Wet fog systems and compressed air are used for suppression of fugitive emissions. e. As explained BF granulated slag is used 100 % and SMS slag utilization is 95 %. Fly ash generated is being 100 % disposed to fly ash brick manufactures. f. Waste containing flux & ferrous waste is 100 % utilized in the sinter plant, which functions as waste to wealth plant. g. We have established four rainwater-harvesting ponds with various capacity and 2 Nos are inside the plant and another 2 Nos are outside the plant. The total capacity of the rain water harvesting system is 146000 m^3 From FY25 onwards use of rainwater in secondary applications is being practiced. h. Various initiatives and measures are being taken to reduce the GHG emissions and present level of GHG emission is 2.70 tCO2/TCS (as per WSA methodology, Scope1 and Scope2). Major focus are being given to maximize the waste heat utilization, Renewable energy, use of biomass, bio char, bio gas and resource conservation. i. To reduce power consumption actions are being implemented procurement high efficiency drivers with lower power consumption and where ever applicable VFDs are installed. LED lights are installed in plant and township premises to replace sodium vapor lamps. To reduce power consumption various Environment

	Standards. • Up-gradation in the monitoring and analysis facilities for air and water pollutants. Also to impact elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories. • To improve over all house keeping.	Management and Energy Management programs and Kaizens are implemented to conserve power. j. Since our plant installed with Non recovery type coke oven 45 – 50 % captive power generated through WHRBs and by product BF gas is also used for power generation and steam generation. 65- 70 % captive power requirement met through WHRS only. k. All the projects are wetted to the best energy consumption through selection of equipment. Energy audit is being carried out and implementations are done in phased manner to minimize the energy consumption.The plant also have Energy Managers and Energy Auditor for internal audits. l. JSW Steel established Climate Action Group (CAG) and KPI with respect to Raw material, Energy and water consumption are being fixed as a key performance indicator and Chairman of the CAG on monthly basis is reviewing it and the respective plant heads will present the target compliance status including deviation analysis along with mitigation plan for continual improvement. Also bench marking practice is in place for JSW steel other plants level, National and International level. m. A separate Environment cell is available and with lab set up and trainings are being imparted to the monitoring personnel on defined frequency. Presently the environmental monitoring and analysis being done through M/s Nawal Analytical Labs India Pvt Ltd. n. TQM and 5S systems are special focused concept at our works and the system supports to maintain, improve and ensure housekeeping throughout the plant. Due to the implementation, saving in area, inventory control, retrieval time period and standardization practices are well improved.

ANNEXURE 8

ONLINE EFFLUENT MONITORING REPORT AND EFFLUENT & GROUND WATER QUALITY MANUAL MONITORING REPORT OF TNPCB & NABL ACCREDITED LABORATORY

Online effluent monitoring report and effluent & ground water quality manual monitoring report of NABL accredited laboratory

I.Online effluent monitoring report

S.No	Description	UoM	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	Effluent Inlet flow	m^3	85693	77281	81458	87339	88622	85664
2	Treated effluent water reuse in process	m^3	87428	77007	77566	94483	95245	78936
3	ETP outlet discharge flow	m^3	0	0	0	0	0	0

Note; Consented Trade efflunet generation 2935 KLD

II. Treated trade effluent of CPPII-Cooling tower water by NABL accredited laboratory

S. No	PARAMETER	UNITS	TNPCB Tolerance Limit	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
				TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW	TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW	TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW	TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW	TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW	TRADE EFLUENT CPP-II 2 x 30 MW & 1x 30 MW
1	Temperature	°C	40	27	27	27	27	25.3	25.4
2	pH @ 250C	-	5.5 to 9.0	7.39	7.09	7.51	7.42	6.97	6.92
3	Particles size	-	Shall Pass 850 µ IS Sieve	Test Pass	Test Pass	Test Pass	Test Pass	Test Pass	Test Pass
4	Total Suspended Solids	mg/L	100	6	7	8	7	8	7
5	Total Dissolved Solids	mg/L	2100	1986	1904	1658	1599	1608	1602
6	Free Residual Chlorine	mg/L	1	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
7	Sulphate as SO4	mg/L	1000	214.21	206.62	168.13	158.12	141.21	138
8	Sulphide as S	mg/L	2	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
9	Chloride as Cl	mg/L	1000	635.65	620.87	486.37	473.04	428.7	424
10	Fluoride as F	mg/L	2	0.51	0.49	0.48	0.43	0.41	0.37
11	Chemical Oxygen Demand	mg/L	250	30.75	33.86	32.47	34.82	49.1	47
12	BOD, 3 days @27°C	mg/L	30	7.02	8.06	7.96	8.92	9.07	8.04
13	Oil & Grease	mg/L	10	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]
14	Ammoniacal Nitrogen as N	mg/L	50	0.73	0.71	0.78	0.71	0.61	0.58
15	Free Ammonia as NH3	mg/L	30	0.89	0.87	0.96	0.87	0.75	0.73
16	Total Kjeldahl Nitrogen	mg/L	100	6.83	6.54	8.87	6.65	8.04	7.84
17	Dissolved Phosphate as PO4	mg/L	5	0.1	0.11	0.13	0.18	0.17	0.14
18	Phenolic Compound as C6H5OH	mg/L	1	BLQ[LOQ-0.0001]	BLQ[LOQ-0.0001]	BLQ[LOQ-0.0001]	BLQ[LOQ-0.0001]	BLQ[LOQ-0.0001]	BLQ[LOQ-0.0001]
19	Cyanide as CN	mg/L	0.2	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
20	Residual Sodium Carbonate	mg/L	-	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]
21	Copper as Cu	mg/L	3	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
22	Nickel as Ni	mg/L	3	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
23	T. Chromium as Cr	mg/L	2	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
24	Zinc as Zn	mg/L	1	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
25	Arsenic as As	mg/L	0.2	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
26	Lead as Pb	mg/L	0.1	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
27	Cadmium as Cd	mg/L	2	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
28	Selenium as Se	mg/L	0.05	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
29	Boron as B	mg/L	2	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
30	Mercury as Hg	mg/L	0.01	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
31	Hex. Chromium as Cr6+	mg/L	0.1	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]

III. Treated trade effluent of Steel Guard bond water by NABL accredited laboratory									
S.No	**Parameter**	**Unit**	**TNPCB Tolerance Limit**	**Apr-25**	**May-25**	**Jun-25**	**Jul-25**	**Aug-25**	**Sep-25**
1	Temperature	°C	40	27	27	27	27	26.8	26.3
2	pH @ 250C	-	5.5 to 9.0	7.32	7.24	7.29	7.34	7.25	7.29
3	Particles size	-	Shall Pass 850 µ IS Sieve	Test Pass	Test Pass	Test Pass	Test Pass	Test Pass	Test Pass
4	Total Suspended Solids	mg/L	100	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]
5	Total Dissolved Solids	mg/L	2100	1698	1524	1098	1068	1008	1014
6	Free Residual Chlorine	mg/L	1	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
7	Sulphate as SO4	mg/L	1000	192.15	174.11	101.2	106.07	98.12	94.25
8	Sulphide as S	mg/L	2	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]
9	Chloride as Cl	mg/L	1000	571.6	522.32	312.67	325.22	310.44	304.06
10	Fluoride as F	mg/L	2	0.37	0.34	0.37	0.35	0.29	0.25
11	Chemical Oxygen Demand	mg/L	250	34.72	37.85	31.49	35.14	31.12	32.28
12	BOD, 3 days @27°C	mg/L	30	9.18	8.06	8.96	9.92	8.92	7.14
13	Oil & Grease	mg/L	10	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]
14	Ammoniacal Nitrogen as N	mg/L	50	0.68	0.71	0.63	0.7	0.62	0.66
15	Free Ammonia as NH3	mg/L	30	0.83	0.87	0.77	0.85	0.76	0.8
16	Total Kjeldahl Nitrogen	mg/L	100	16.11	14.78	9.42	8.59	6.65	6.81
17	Dissolved Phosphate as PO4	mg/L	5	0.18	0.18	0.09	0.11	0.13	0.11
18	Phenolic Compound as C6H5OH	mg/L	1	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
19	Cyanide as CN	mg/L	0.2	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
20	Residual Sodium Carbonate	mg/L	-	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]
21	Copper as Cu	mg/L	3	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
22	Nickel as Ni	mg/L	3	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
23	T. Chromium as Cr	mg/L	2	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
24	Zinc as Zn	mg/L	1	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
25	Arsenic as As	mg/L	0.2	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
26	Lead as Pb	mg/L	0.1	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
27	Cadmium as Cd	mg/L	2	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
28	Selenium as Se	mg/L	0.05	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
29	Boron as B	mg/L	2	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
30	Mercury as Hg	mg/L	0.01	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
31	Hex. Chromium as Cr6+	mg/L	0.1	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]

IV. Result of analysis of steel treated trade effluent by TNPCB									
S.No	Parameter	Unit	TNPCB Tolerance Limit	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	pH at 25OC	Number	5.5 to 9.0	7.46	6.9	7.04	7.22	8.27	7.27
2	TSS at 103OC - at 105OC	mg/L	100	28	48	32	13.6	13	96
3	Total Dissolved Solids at 180OC	mg/L	2100	1172	1680	1756	1412	1113	1164
4	Chloride as Cl	mg/L	1000	420	575	485	405	413	310
5	Sulphate as SO4	mg/L	1000	265	372	439	436	261	217
6	Oil & Grease	mg/L	10	<3	<3	6	5	5	<3
7	BOD (at 27OC for 3 days)	mg/L	30	8	5	4	6	3	14
8	COD	mg/L	250	40	32	64	48	56	56
9	Dissolved Phosphate	mg/L	5	0.046	0.248	0.014	0.16	0.03	0.264
10	Phenolic Compounds	mg/L	1	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
11	Ammonical nitrogen as NH3- N	mg/L	50	3.36	1.68	2.24	1.12	2.24	***
12	Total Kjeldhal Nitrogen	mg/L	100	5.6	2.24	4.48	3.36	4.48	***
13	Sulphide	mg/L	2	<1	<1	<1	<1	<2	<1
14	Total Chromium	mg/L	2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	Hexavalent Chromium	mg/L	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Fluoride as F	mg/L	2	0.15	1.411	1.372	0.739	0.349	1.234
17	Cyanide	mg/L	0.2	<0.001	<0.001	<0.001	<0.001	NP	<0.001
18	Free Ammonia	mg/L	30	-	-	-	1.366	1.36	***
19	Boron	mg/L	2	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02
20	Total Residual Chlorine	mg/L	1	<1	<1	< 0.9	<1	<1	<1
21	Lead	mg/L	0.1	<0.05	<0.05	<0.05	<0.05	<0.016	<0.05
22	Zinc	mg/L	1	<0.01	<0.01	<0.01	<0.01	0.105	<0.01
23	Nickel	mg/L	3	<0.02	0.034	0.03	<0.02	0.04	<0.02
24	Cadmium	mg/L	2	<0.01	<0.01	<0.01	<0.01	<0.0028	<0.01
25	Mercury	mg/L	0.01	-	-	-	-	NP	-
26	Arsenic	mg/L	0.2	-	-	-	-	NP	-
27	Copper as Cu	mg/L	3	-	<0.03	-	-	-	-
28	Manganese	mg/L	-	-	-	0.341	-	-	-

IV. Result of analysis of CPPII- treated trade effluent by TNPCB									
S.No	**Parameter**	**Unit**	**TNPCB Tolerance Limit**	**Apr-25**	**May-25**	**Jun-25**	**Jul-25**	**Aug-25**	**Sep-25**
1	pH at 25OC	Number	5.5 to 9.0	7.05	6.57	7.27	7.29	7.12	7.17
2	TSS at 103OC - at 105OC	mg/L	100	8.00	6	8.00	36.00	28.00	24
3	Total Dissolved Solids at 180OC	mg/L	2100	1396.00	1420	1132.00	1792.00	1709.00	1524
4	Chloride as Cl	mg/L	1000	290.00	345	280.00	305.00	510.00	290
5	Sulphate as SO4	mg/L	1000	490.00	450	140.00	80.00	578.00	468
6	Oil & Grease	mg/L	10	4.00	<3	4.00	3.00	<4	<3
7	BOD (at 27OC for 3 days)	mg/L	30	3.60	3	2.80	8.00	7.00	12
8	COD	mg/L	250	32.00	56	48.00	88.00	80.00	48
9	Dissolved Phosphate	mg/L	5	0.99	0.248	0.05	0.20	0.06	0.264
10	Phenolic Compounds	mg/L	1	<0.01	<0.01	<0.01	<0.01	0.04	<0.01
11	Ammonical nitrogen as NH3- N	mg/L	50	1.68	2.24	3.36	4.42	3.36	***
12	Total Kjeldhal Nitrogen	mg/L	100	6.72	2.8	5.60	7.28	5.60	***
13	Sulphide	mg/L	2	<1	<1	<1	<1	<2	<1
14	Total Chromium	mg/L	2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	Hexavalent Chromium	mg/L	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Fluoride as F	mg/L	2	0.22	1.716	1.53	1.29	1.63	0.917
17	Cyanide	mg/L	0.2	<0.001	<0.001	<0.001	<0.001	NP	<0.001
18	Free Ammonia	mg/L	30	-	-	-	5.47	2.46	***
19	Boron	mg/L	2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
20	Total Residual Chlorine	mg/L	1	<1	<1	<1	<1	<1	<1
21	Lead as pb	mg/L	0.1	<0.05	0.071	<0.05	<0.05	<0.016	<0.05
22	Zinc as Zn	mg/L	1	<0.01	0.052	<0.01	<0.01	0.45	<0.01
23	Nickel as Ni	mg/L	3	<0.02	0.059	0.02	<0.02	0.04	<0.02
24	Cadmium as Cd	mg/L	2	<0.05	<0.01	<0.01	<0.01	<0.0028	<0.01
25	Mercury	mg/L	0.01	***	-	-	-	NP	-
26	Arsenic	mg/L	0.2	***	-	-	-	NP	-
27	Copper as us	mg/L	3	-	<0.003	<0.05	-	-	-
28	Manganese	mg/L	-	-	<0.02	-	-	-	-

V.Result of analysis of ground water by NABL accredited laboratory

S.No	PARAMETERS	UNIT	Apr-25				May-25				Jun-25			
			Govt Borewell Water - Moorthipatti	Open Well Water - mr. Balan, Pudur Panankadu	Mr. Selvam - Borewell Karapatti Pallam	Govt Borewell Water - Kavundanoor	Govt Borewell Water - Parry Nagar	Open Well Water - Mrs. Kaliyammal Teacher House	Open Well Water - Mr. Rajamani, Kuttapatti Pudur	Govt Borewell Water - Kuttapatti Pudur	Ground Water - Govt Borewell Water Kuttapatti Pudur	Ground Water - Open Well Water - Vallayen House Moorthipatti	Ground Water - Govt Borewell Water - Ervadi Village	Govt Borewell Water - Kavundanoor
1	Temperature	°C	27	27	27	27	27	27	27	27	27	27	27	27
2	pH @25°C	-	7.21	6.65	7.76	7.87	7.16	6.74	7.62	6.81	7.33	7.24	6.93	6.86
3	Particles size	-	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass
4	Total Suspended Solid	mg/L	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	10
5	Total Dissolved Solids	mg/L	1277	2222	2306	1659	1289	2126	2238	1411	1323	2186	2361	2734
6	Free Residual Chlorine	mg/L	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]
7	Sulphate as SO4	mg/L	128.42	213.25	233.71	179.41	124.08	211.51	247.28	149.08	132.06	243.15	251.08	294.15
8	Sulphide as S	mg/L	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]
9	Chloride as Cl	mg/L	348.35	704.64	680	507.54	369.57	719.42	729.28	404.06	406.97	734.52	719.64	893.34
10	Fluoride as F	mg/L	0.29	0.58	BLQ[LOQ-0.02]	0.48	0.31	0.61	BLQ[LOQ-0.02]	0.36	0.42	0.38	0.52	0.28
11	Chemical Oxygen Demand	mg/L	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	39.36
12	BOD, 3 days @27°C	mg/L	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	8.06
13	Oil & Grease	mg/L	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]
14	Ammoniacal Nitrogen as N	mg/L	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	0.71
15	Free Ammonia as NH3	mg/L	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	0.87
16	Total Kjeldahl Nitrogen	mg/L	6.83	8.46	BLQ[LOQ-1.0]	4.91	6.54	11.94	9.09	5.68	5.68	14.69	4.71	24.95
17	Dissolved Phosphate as PO4	mg/L	BLQ[LOQ-0.05]	0.15	BLQ[LOQ-0.05]	0.14	BLQ[LOQ-0.05]	0.18	0.21	0.08	BLQ[LOQ-0.05]	0.25	BLQ[LOQ-0.05]	0.15
18	Phenolic Compound as C6H5OH	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
19	Cyanide as CN	mg/L	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
20	Residual Sodium Carbonate	mg/L	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]
21	Copper as Cu	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
22	Nickel as Ni	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
23	T. Chromium as Cr	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
24	Zinc as Zn	mg/L	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
25	Arsenic as As	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
26	Lead as Pb	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
27	Cadmium as Cd	mg/L	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
28	Selenium as Se	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
29	Boron as B	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
30	Mercury as Hg	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
31	Hex. Chromium as Cr6+	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]

V.Result of analysis of ground water by NABL accredited laboratory

S.No	PARAMETERS	UNIT	Jul-25				Aug-25				Sep-25			
			Govt Borewell Water - Moorthipatti	Open Well Water - mr. Balan, Pudur Panankadu	Mr. Selvam - Borewell Karapatti Pallam	Govt Borewell Water - Kavundanoor	Open Well Water - Mrs. Kaliyammal Teacher House	Ground Water - Open Well Water - Vallayen House Moorthipatti	Ground Water - Govt Borewell Water - Ervadi Village	Govt Borewell Water - Parry Nagar	Mr. Selvam - Borewell Karapatti Pallam	Govt Borewell Water - Moorthipatti	Open Well Water - mr. Balan, Pudur Panankadu	Open Well Water - Venkatesan Pottaneri House
1	Temperature	°C	27	27	27	27	25.3	25.6	26.5	26.4	25.4	26.4	25.2	26.3
2	pH @25°C	-	7.41	6.83	7.04	6.83	6.84	7.29	7.56	6.54	7.74	7.59	6.81	7.21
3	Particles size	-	Test Pass	Test pass	Test Pass	Test pass	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass	Test pass	Test Pass
4	Total Suspended Solid	mg/L	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]	BLQ[LOQ-5.0]
5	Total Dissolved Solids	mg/L	1914	2239	2304	2745	2135	2194	2484	2046	2306	2462	2336	2046
6	Free Residual Chlorine	mg/L	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.5]	BLQ[LOQ-0.1]
7	Sulphate as SO4	mg/L	173.07	233.15	226.14	297.14	218.41	245.12	166.07	126.7	228	159.12	231	236.81
8	Sulphide as S	mg/L	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]
9	Chloride as Cl	mg/L	546.96	719.42	684.93	891.89	689.86	739.13	512.47	372	686	501.24	714	704.28
10	Fluoride as F	mg/L	0.52	0.63	0.49	0.29	0.49	0.41	0.49	0.33	0.52	0.46	0.6	0.39
11	Chemical Oxygen Demand	mg/L	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	40.16	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]	BLQ[LOQ-4.0]
12	BOD, 3 days @27°C	mg/L	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	8.92	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]	BLQ[LOQ-2.5]
13	Oil & Grease	mg/L	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]	BLQ[LOQ-2.0]
14	Ammoniacal Nitrogen as N	mg/L	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	0.72	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]
15	Free Ammonia as NH3	mg/L	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	0.88	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]	BLQ[LOQ-0.25]
16	Total Kjeldahl Nitrogen	mg/L	4.99	9.98	5.27	25.23	7.3	13.86	5.82	6.78	5.29	5.27	9.95	12.56
17	Dissolved Phosphate as PO4	mg/L	BLQ[LOQ-0.05]	0.19	BLQ[LOQ-0.05]	0.16	0.35	0.28	0.19	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	0.18	0.17	0.26
18	Phenolic Compound as C6H5OH	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
19	Cyanide as CN	mg/L	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]	BLQ[LOQ-0.1]
20	Residual Sodium Carbonate	mg/L	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]
21	Copper as Cu	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
22	Nickel as Ni	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
23	T. Chromium as Cr	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
24	Zinc as Zn	mg/L	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
25	Arsenic as As	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
26	Lead as Pb	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
27	Cadmium as Cd	mg/L	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]	BLQ[LOQ-0.01]
28	Selenium as Se	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
29	Boron as B	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
30	Mercury as Hg	mg/L	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]	BLQ[LOQ-0.001]
31	Hex. Chromium as Cr6+	mg/L	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]

VI. Result of analysis of ground water by TNPCB

S.No	Parameter	Unit	OPEN WELL - Tmt.Kaliammal teacher , Pottaneri	GOVT. Bore well , Kavundanoor	Selvam Bore Well Karapattipallam	BORE WELL Thiru Velliyan , Moorthipatti	GOVT BORE WELL - Moorthipatti	OPEN WELL - Thiru .Venkatesan, Pottaneri	OPEN WELL - Thiru .Rajamani, Kuttapatti Pudur	GOVT. BORE WELL Kuttapatti Pudur	OPEN WELL - Thiru .Balan, Pudur Panankadu	GOVT BORE WELL, ERVADI	GOVT BORE WELL, PARYNAGAR
			Jul-25										
1	Conductivity at 25o C	µmhos/cm	3420	2230	3650	1671	1725	4010	3350	3430	4690	2080	2300
2	Turbidity	NTU	0.22	0.16	0.40	0.30	0.23	1.11	0.31	0.18	0.54	0.25	0.86
3	pH at 25o C	Number	7.36	7.03	7.17	6.96	7.27	7.8	7.23	7.19	7.24	7.90	7.51
4	TSS at 25o C	mg/L	4	4	4	4	4	4	4	4	4	4	4
5	Total Dissolved Solids at 180o C	mg/L	2532	1556	2680	1096	1192	2648	2184	2384	3208	1416	1588
6	Chloride as Cl	mg/L	450	300	400	220	260	460	360	400	460	260	290
7	Sulphate as SO4	mg/L	560	400	520	171	173	420	473	480	600	280	260
8	O&G	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
9	BOD (at 27o C for 3 days	mg/L	2.2	3	2	2.4	<2	2.8	3	2.7	2.2	<2	2
10	COD	mg/L	32	40	40	64	32	80	72	80	64	48	32
11	Dissolved Oxygen	mg/L	5.8	5.2	6	5.7	6.2	5	5	5.2	5.2	6.1	6.1
12	Total Phosphate as PO4	mg/L	0.044	0.056	0.086	0.048	0.068	0.108	0.1	0.082	0.084	0.062	0.07
13	Dissolved Phosphate	mg/L	0.024	0.022	0.012	0.014	0.022	0.012	0.014	0.034	0.022	0.028	0.026
14	Phenolic Compounds	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
15	Ammonical Nitrogen as NH3 -N	mg/L	0.056	0.056	0.056	0.56	0.56	1.12	0.56	0.56	0.56	0.56	0.56
16	Total Kjeldhal Nitrogen	mg/L	1.12	1.12	1.12	1.12	1.12	1.68	1.12	1.12	1.68	1.12	1.12
17	Total Nitrogen	mg/L	4.336	5.14	6.072	4.635	4.511	7.648	6.434	2.644	6.733	4.242	5.696
18	Nitrate Nitrogen as NO3	mg/L	3.102	4.01	4.94	3.513	3.383	5.772	5.308	1.513	4.875	3.102	4.464
19	Nitrite Nitrogen as NO2	mg/L	0.114	0.005	0.012	0.002	0.008	0.196	0.006	0.011	0.178	0.02	0.112
20	Sulphide	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	% Sodium	%	25	33	31	37	33	26	34	30	27	25	27
22	Total Hardness as CaCO3	mg/L	710	330	540	280	360	750	440	590	730	680	700
23	Calcium as Ca	mg/L	184	80	88	60	76	148	72	100	136	112	120
24	Magnesium as Mg	mg/L	61	32	78	32	41	92	63	83	95	97	97
25	Sodium as Na	mg/L	196	130	170	124	138	200	156	174	200	158	182
26	Potassium as K	mg/L	14	13	11	7	10	18	9	6	22	35	11
27	SAR	mg/L	4.55	4.43	4.52	4.58	4.49	4.51	4.59	4.42	4.57	3.74	4.25
28	Residule Sodium Carbonate	-	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve
29	Total Chromium	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
30	Hexavalent Chromium	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
31	Fluoride as F	mg/L	0.772	1.239	1.15	1	1.083	1.333	1.017	1.15	1.094	1.008	0.733
32	Ph. Alkalinity	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
33	Alkalinity CaCO3	mg/L	276	184	560	272	360	500	5.8	524	320	212	332
34	Cyanide	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
35	Iron Total as Fe	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
36	Free Ammonia	mg/L	0.683	0.683	0.683	0.683	0.683	1.366	0.683	0.683	0.683	0.683	0.683
37	Boron	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
38	Total Residule Chlorine	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
39	Total Volatile solids at 550	mg/L	12	8	8	12	12	16	8	16	20	20	8
40	Copper	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
41	Lead	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
42	Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
43	Nickel	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
44	Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
45	Magnesium as Mn	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
46	Feacal Coliform	MPN/100ml	96	74	101	86	75	98	98	98	101	-	-
47	Total Coliform	MPN/100ml	225	194	233	208	195	240	231	236	261	-	-

ANNEXURE 9

TREATED SEWAGE QUALITY MONITORING REPORT OF TNPCB & NABL ACCREDITED LABORATORY

Treated sewage quality monitoring report of TNPCB & NABL accredited laboratory for the period of Apr'25 to Sep '25								
Result of analysis of treated sewage by TNPCB (Plant STP)								
S.No	**Parameter**	**Unit**	**Apr-25**	**May-25**	**Jun-25**	**Jul-25**	**Aug-25**	**Sep-25**
1	$_{P}$H @ 25^{o}C	Number	7.51	7.34	7.41	7.54	7.38	7.76
2	TSS at 103°C - 105°C	mg/l	4	4	4	4	2	4.8
3	BOD (at 27°C for 3 days)	mg/l	3.6	<2	2	6	<2	8

Result of analysis of treated sewage by TNPCB (Township STP)

S.No	Parameter	Unit	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	$_{P}$H @ 25^{o}C	Number	7.63	7.18	7.42	7.39	7.47	7.67
2	TSS at 103°C - 105°C	mg/l	4	4	4	8	6	24
3	BOD (at 27°C for 3 days)	mg/l	5	2	<2	4	3	4

Result of analysis of treated sewage by NABL accredited laboratory (Plant STP)								
S.No	**Parameter**	**Unit**	**Apr-25**	**May-25**	**Jun-25**	**Jul-25**	**Aug-25**	**Sep-25**
1	PH 25 C	--	7.41	7.54	7.9	7.86	7.2	7.75
2	Total Suspended Solids	mg/l	9	12	11	9	14	16
3	BOD,3days@27°C	mg/l	8.03	9.07	8.96	7.93	14.88	8.12

Result of analysis of treated sewage by NABL accredited laboratory (Township STP)								
S.No	**Parameter**	**Unit**	**Apr-25**	**May-25**	**Jun-25**	**Jul-25**	**Aug-25**	**Sep-25**
1	PH 25 C	--	6.93	7.51	6.84	6.92	7.42	7.29
2	Total Suspended Solids	mg/l	7	7	17	13	8	9
3	BOD,3days@27°C	mg/l	10.04	8.06	8.33	9.92	9.07	8.64

ANNEXURE 10

AMBIENT NOISE LEVEL MONITORING REPORT OF NABL ACCREDITED LABORATORY

FY 26 1st BI ANNUAL SURVEY REPORT - Ambient Noise							
S.No	Location	Sep-25					
		L_{eq}	L_{max}	L_{min}	L10	L50	L90
1	New Land area JSW Boundary	52.8	68.2	49	59.9	51.3	46.7
2	Open field – Near thangamapuri stores, Malamanoor.	55.2	62	52.3	59.8	51.5	46.8
3	Nearby Mr.Chinnamuthu House, Malamanoor.	55.5	61.3	49.6	60.7	51.9	46.9
4	Near Madhayen Temple at Coconut Farm.	51.6	60.9	49.2	60.2	51.5	46.7
5	Eastern Gate of JSW.	53.6	68.8	46.4	76.5	55.8	51.5
6	In front of Occupational in Health Centre.	55.7	72	46.3	61	52.2	47.4
7	Near Pickling Plant ETP	56	67.5	48	76	55.5	41.7
8	Reservoir Premises.	54.2	67.2	51.8	74.7	54	51.1
9	Near Bhavani Guest House	51.9	67.4	49.3	68	53.3	50.7
10	Near Executive Staff Quarters, JSW.	49	61.6	44.6	64.2	53.7	49.8
11	Nearby Railway Crossing kuttappatti village.	53.7	73.8	46.1	58.9	53.1	48.9
12	At Coconut Farm, Nearby Railway crossing.	53.1	62.3	50.3	59.5	52.9	48.7
13	Near Thiru. Sandhanam House, Ervadi Village.	54.1	75.5	40.6	55.7	49.7	45.1
14	At Parrynagar Residential Area.	51.4	67.9	45.7	57.5	51.6	46.5
15	Near by Over Head Tank	50.7	59.4	48.7	57	51.3	46.4
16	Opp. To Old Main Gate, Open Agricultural field.	54.8	71.6	49	57.2	51.6	46.7
17	Kaveri Guest House Premises.	52.9	63.7	46.6	60.2	51.2	46.3
18	Open Field, Pottaneri Village.	50.8	67.7	45.9	59.3	50.7	46.1
19	Raw Material Storage Yard (Iron Ore).	50.6	67.3	46.1	60.3	51.4	46.6

Ambient Noise level monitoring report of NABL accredited laboratory for the period of Apr'25 to Sep '25

I. Ambient Noise Monitoring results (Apr'25 to Sep '25)

S.No	Location	Day Time Noise Level in dB(A)									
		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Maximum	Minimum	Average	STD Deviation
1	New Land area JSW Boundary	67.2	68.3	69.7	65.7	63.1	60.3	69.7	60.3	65.7	3.5
2	Open field – Near thangamapuri stores, Malamanoor.	58.6	56.1	61.5	58.9	60.1	56.2	61.5	56.1	58.6	2.1
3	Nearby Mr.Chinnamuthu House, Malamanoor.	68.9	69.6	65.7	63.8	59.7	55.9	69.6	55.9	63.9	5.3
4	NearMadhayen Temple at Coconut Farm.	65.4	66.1	69.4	67.6	64.2	61.5	69.4	61.5	65.7	2.7
5	Eastern Gate of JSW.	69.7	68.5	66.3	65.8	63.9	60.4	69.7	60.4	65.8	3.3
6	In front of Occupational in Health Centre.	59.1	60.7	58.5	60.1	56.4	58.1	60.7	56.4	58.8	1.5
7	Near Pickling & Phosphating Plant 2 KLD ETP	60.5	59.3	60.4	63.8	61.1	63.6	63.8	59.3	61.5	1.8
8	Reservoir Premises.	61.8	62.5	61.9	65.1	62.6	64.2	65.1	61.8	63.0	1.3
9	Near Bhavani Guest House.	60.2	61.9	59.3	51.6	50.9	54.8	61.9	50.9	56.5	4.7
10	Executive Staff Quarters, JSW.	46.9	45.3	42.4	42.4	46.5	48.5	48.5	42.4	45.3	2.5
11	Nearby Railway Crossing kuttappatti village.	55.6	54.7	49.5	54.1	57.6	55.1	57.6	49.5	54.4	2.7
12	Near Thiru. Santhanam House, Earvadi Village.	46.3	45.9	41.8	46.7	43.8	46.7	46.7	41.8	45.2	2.0
13	At Coconut Farm, Nearby Railway crossing.	52.9	51.5	49.7	50.6	55.3	58.7	58.7	49.7	53.1	3.4
14	At Parrynagar JSW Boundary	55.7	54.7	51.7	55.3	52.8	55.6	55.7	51.7	54.3	1.7
15	Nearby Over Head Tank JSW Boundary	45.3	46.2	40.5	45.7	47.1	45.6	47.1	40.5	45.1	2.3
16	Open Agricultural field. West Compound Wall	52.6	53	50.1	59.7	54.1	56.4	59.7	50.1	54.3	3.3
17	Nearby Compound Wall opposite to Kaveri Guest House Premises	44	43.7	49.1	50.7	53.6	55.8	55.8	43.7	49.5	4.9
18	Open Field, Pottaneri Village.	56.8	55.2	50.3	56.2	56.3	53.7	56.8	50.3	54.8	2.4
19	Nearby Compound Wall opposite to Raw Material Storage Yard (Iron Ore).	53.5	52.9	49.1	53.6	56.2	54.2	56.2	49.1	53.3	2.3

Ambient Noise level monitoring report of NABL accredited laboratory for the period of Apr'25 to Sep '25

I. Ambient Noise Monitoring results (Apr'25 to Sep '25)

S.No	Location	Night Time Noise Level in dB(A)									
		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Maximum	Minimum	Average	STD Deviation
1	New Land area JSW Boundary	53.6	52.1	56.2	51.8	49.9	51.3	56.2	49.9	52.5	2.2
2	Open field – Near thangamapuri stores, Malamanoor.	42.8	41.9	49.3	45.6	48.3	47.6	49.3	41.9	45.9	3.0
3	Nearby Mr.Chinnamuthu House, Malamanoor.	41.2	40.2	46.6	40.3	42.5	45.5	46.6	40.2	42.7	2.7
4	NearMadhayen Temple at Coconut Farm.	44.5	43.6	49.8	45.1	48.2	45.8	49.8	43.6	46.2	2.4
5	Eastern Gate of JSW.	56.1	55.4	50.7	51.7	55.8	53.4	56.1	50.7	53.9	2.3
6	In front of Occupational in Health Centre.	42.9	43.9	49.7	51.4	47.3	45.1	51.4	42.9	46.7	3.4
7	Near Pickling & Phosphating Plant 2 KLD ETP	43.3	44.7	46.3	48.7	44.7	47.9	48.7	43.3	45.9	2.1
8	Reservoir Premises.	40.8	41.6	45.7	46.2	43.8	46.4	46.4	40.8	44.1	2.4
9	Near Bhavani Guest House.	40.1	39.2	41.8	39.8	35.9	39.4	41.8	35.9	39.4	1.9
10	Executive Staff Quarters, JSW.	41.9	40.7	35.2	37.9	33.7	38.5	41.9	33.7	38.0	3.1
11	Nearby Railway Crossing kuttappatti village.	44.6	43.9	40.6	48.1	44.6	45.3	48.1	40.6	44.5	2.4
12	Near Thiru. Santhanam House, Earvadi Village.	46.2	45.2	37.3	38.6	35.4	33.9	46.2	33.9	39.4	5.1
13	At Coconut Farm, Nearby Railway crossing.	45.5	43.7	40.8	44.8	47.5	49.4	49.4	40.8	45.3	3.0
14	At Parrynagar JSW Boundary	56.7	55.3	45.7	46.4	43.2	46.7	56.7	43.2	49.0	5.6
15	Nearby Over Head Tank JSW Boundary	45.8	44.1	38.4	39.9	40.1	42.2	45.8	38.4	41.8	2.8
16	Open Agricultural field. West Compound Wall	46.1	45.9	42.6	48.3	47.4	45.5	48.3	42.6	46.0	2.0
17	Nearby Compound Wall opposite to Kaveri Guest House Premises	41	40.5	42.7	46.1	43.8	45.1	46.1	40.5	43.2	2.2
18	Open Field, Pottaneri Village.	41.7	40.8	39.4	40.7	41.3	43.9	43.9	39.4	41.3	1.5
19	Nearby Compound Wall opposite to Raw Material Storage Yard (Iron Ore).	44.5	43.2	40.7	46.4	43.8	46.7	46.7	40.7	44.2	2.2

Standard limit for Ambient noise level at Daytime is 75 dB (A), Standard limit for Ambient noise level at Nighttime is 70 dB (A).
The ambient noise level monitoring results are within the CPCB norms.

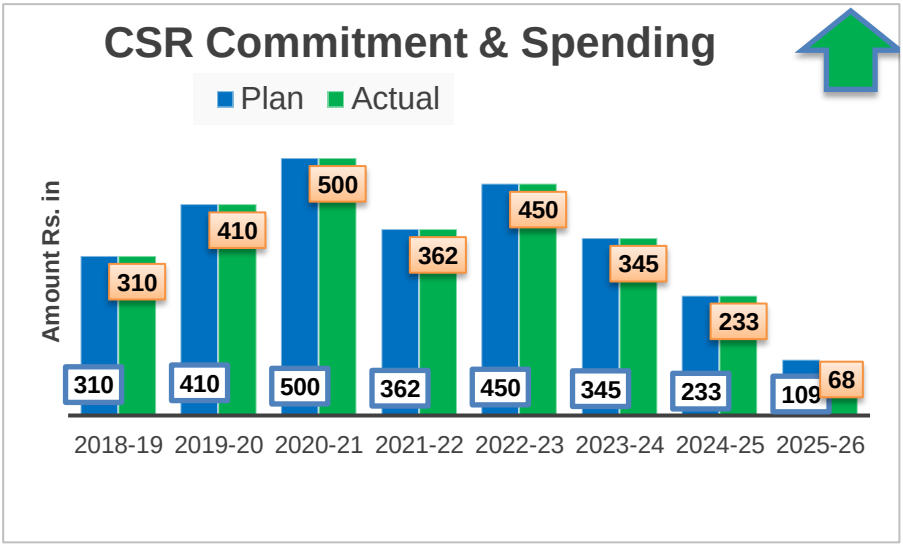
ANNEXURE 11

REPORT ON CSR &CER ACTIVITIES

CSR REPORT FOR THE PERIOD OF APRIL 2025 TO SEPTEMBER 2025

JSW is deeply conscious of its vision and responsibilities to the communities around the plant. Empowering citizen with better health, education and employment opportunities is JSW's mission. JSW is committed to improve the quality of life of surrounding communities through Corporate Social Responsibility (CSR) programs. We have well-laid community development programs under CSR. Our focus is on,

- Health
- Education
- Environment
- Women Empowerment
- Agri Livelihood
- Rural Infrastructure Development



During the FY-2025-26, our CSR initiatives extended their reach across the following areas Pottaneri, M.Kalipatti, Kuttapatti, Viruthasampatti, Gonur Panchayats and Mecheri Town. For FY 2025–26, we have committed a total CSR expenditure of ₹1.09 crore towards initiatives focused on community welfare, sustainable development, and local infrastructure improvement. During H1 of FY 2025–26, an amount of ₹0.68 crore has been utilized toward these projects

INAUGURATED SANITATION BLOCK AT MECHERI PHC:

JSW -CSR constructed sanitation block to enhance hygienic standards at Mecheri PHC and to provide clean and safe sanitation facilities for all patients. Mecheri PHC caters to an average of approximately 200 outpatients on a daily basis, making it one of the more frequently, visited primary health centers in the region. Given this high patient turnout, the provision of clean and accessible sanitation facilities is not only essential but also critical in maintaining public health and ensuring the comfort and dignity of the patients. Our interventions would influence outpatients (OP) Many patients spend long hours at the PHC awaiting consultations and treatments. The sanitation block provides essential facilities, ensuring comfort and hygiene during their visits. Weekly check-ups are held at the PHC for expectant mothers. The availability of clean toilets and washing facilities supports maternal health and reduces the risk of infection for both mothers and newborn children. In addition,

children, the elderly, and individuals with special needs will benefit significantly from improved hygiene, contributing to better overall health outcomes.

PLANTATION DRIVE ON THE OCCASION OF WORLD ENVIRONMENT DAY:

On World Environment Day 2025, we organized a plantation drive with the enthusiastic participation of nearly 150 volunteers. As part of this initiative, 300 saplings were planted along the roadside from Mecheri to our temple gate. The objective was to enhance greenery in the area and raise awareness about the importance of tree plantation for environmental sustainability.

JSW ASPIRE INITIATIVES - SUMMER INITATIVE:

During the summer vacation, community level Bal Panchayat meetings were conducted in four of our Aspire communities to actively engage children in meaningful activities. A total of 91 Bal Panchayat members participated enthusiastically in these sessions. These gatherings provided a platform for children to express their views, learn about their rights, and take part in community-related discussions. The initiative helped keep the children constructively occupied during the vacation, fostering leadership skills, teamwork, and social awareness. By involving young members of the community, the Bal Panchayats also aimed to build a sense of responsibility and encourage their participation in local development and decision-making processes.

VISION SCREENING CAMPS AT DIZ:

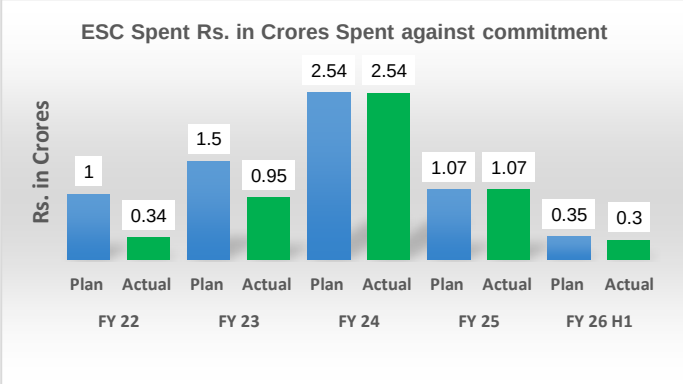
Eye camps have initiated in surrounding villages with the goal of reaching 3,333 beneficiaries. These camps focus on enhancing vision health by providing professional eye screenings conducted by trained specialists. Through this intervention, community members receive free eye examinations and, when necessary, provided with free spectacles to correct their vision. This initiative ensures improved access to essential eye care services, helping to prevent vision-related issues and significantly improving the overall quality of life for the beneficiaries.

S.No	Activitiy	Committed in Crs (INR) for FY 25-26	Spent in Crs (INR) From April 25 to Sep 25	Remarks
1	Climate resilient Agri - HIHI	0.40	0.40	Ongoing
2	Community Health Camps	0.20	0.118	Ongoing
3	Integrated Water Resource Management	0.10	0.1043	Yet to start
5	JSW Green Schools	0.465	0.0116	Ongoing
6	Programmer Support – Community Development	0.3	-	Yet to start
7	JSW Aspire Project	0.47	0.05	Ongoing
Total		**1.09**	**0.6841**	

ESC REPORT FOR THE PERIOD OF APRIL 2025 SEPTEMBER 2025

JSW Steel Ltd., Salem works is the only Integrated Steel plant in Tamil Nadu and presently operating with production capacity of 1.15 MTPA. JSW Steel Limited, Salem works is highly committed to protect the environment with distinctive focus on Triple bottom growth for sustainable development. The organization has always maintained Statutory and Regulatory compliances and believes in maintaining harmony with all the stake holders and contributes to societal support activities like:

- Supplying drinking water
- Sanitation facilities
- Road repair/constructions
- Health camps
- Education activities, etc.



INAUGURATED LAYING PAVER BLOCK:

The Laying of Paver Block Project at the Vanavasi Primary Health Centre (PHC) was recently inaugurated, marking a significant improvement in infrastructure for the local community. This initiative was undertaken to provide a safe and accessible pathway for patients and visitors, especially during the rainy season. Previously, the area would become muddy and slippery, making it difficult for people—particularly the elderly, pregnant women, and children—to walk without difficulty. With the installation of durable paver blocks, movement around the PHC has become much easier and safer. This thoughtful intervention greatly enhances public access to essential healthcare services in all weather conditions.

SUPPLYING DRINKING WATER:

To address the drinking water needs in rural areas, a focused initiative undertaken to ensure the availability of clean drinking water at the doorstep of every panchayat. The drinking water supplied through tankers directly to households in key panchayats including Pottaneri, M. Kalipatti, Virudasampatti, and Kuttapatti. This doorstep delivery system was implemented to overcome water scarcity issues, especially during peak summer months when water sources are limited. As a result, over 4,000 households are now benefiting from regular and reliable access to drinking water. Furthermore, the initiative has positively influenced 46 villages, improving public health, reducing the burden on women and children to fetch water, and promoting better hygiene practices. This project has not only addressed an immediate need but also laid the foundation for equitable water distribution and community well-being, demonstrating a strong model of responsive and inclusive local governance in water management.

INTERNATIONAL YOGA DAY CELEBRATED:

On International Yoga Day, we organized a yoga session for the community members at Virudhasampatti village, which attended by 50 participants. The event provided an opportunity for individuals to experience the benefits of yoga and promote physical and mental well-being. Many community members expressed their gratitude and appreciation for organizing this meaningful event, highlighting the positive impact it had on their health.

YOGA WELLNESS PROJECT INAUGURATION:

A Yoga wellness program inaugurated in Ervadi village, with over 200 community members participating in the inaugural session. The event warmly received, as residents expressed their happiness and enthusiasm for bringing such a beneficial program to their village. Many community members appreciated the opportunity to improve their physical and mental well-being through yoga, hoping it would promote a healthier lifestyle and strengthen community bonds in the end.

CCTV CAMERA HANDED OVER TO DISTRICT COLLECTOR:

A Closed Circuit Television (CCTV) camera was handed over to the District Collector on 8th July for use in All Women Police Stations (AWPS) across Salem District, specifically for handling cases under the POCSO Act. These cameras will be used to record statements of victims, particularly in cases involving crimes against women and children, ensuring proper documentation and enhancing the safety and integrity of the process.

Enterprise Social Commitment (ESC) commitment submitted during Environment Impact Assessment (EIA) Study 2017 to MoEFCC in the Table - 2

Table 2: Fund Allocation for Enterprise Social Commitment (ESC) as per EC dated 07.07.2017 (Rs. In Crs)

Sl.No	Description of activities	No's of facility	Amount committed in five years (Rs. In Crs)					Total Rs in Crs
			Year I	Year II	Year III	Year IV	Year V	
1	Toilets	2000	0.5	0.75	0.75	0.5	0.5	**3**
2	Health center	1	0.25	0.25	0.25	0.25	0	**1**
3	Community hall	2	0	0.5	0.5	0	0	**1**
4	Hospital	1	0.5	0.5	0.5	0.25	0.25	**2**
5	Modern school New with GYM and Play ground	1	0	0	1	0.5	0.5	**2**
6	Watershed program	1	0	0.25	0.25	0.25	0.25	**1**
7	Water body strengthening/ Drinking water bore well drilling		0	0.25	0.25	0.25	0.25	**1**
8	Drainage		0.25	0.25	0.25	0.25	0	**1**
9	Government school improvement	1	0	0.25	0.25	0.25	0.25	**1**
Total			**1.5**	**3**	**4**	**2.5**	**2**	**13**

The actual amount spent on ESC until June 2020 is given in Table 3

Table 3: The actual amount spent on ESC until June 2020 (Rs. In Crs)

Sl. No	Description of activities	No's	Year I (Jul'17 to Dec'17)		Year II (Jan'18 to Dec'18)		Year III (Jan'19 to Dec'19)		Year IV (Jan'20 to Jun'20)		Total Rs . (in Crs)	
			Committed	Spent	Committed	Spent	Committed	Spent	Committed	Spent	Committed	Spent
1	Toilets	2000	0.5	0.32	0.75	0.19	0.75	0.04	0.5	0	3	0.55
2	Health center	1	0.25	0	0.25	0	0.25	0.22	0.25	0.21	1	0.43
3	Community hall	2	0	0	0.5	0	0.5	0	0	0	1	0
4	Hospital	1	0.5	0	0.5	0	0.5	0	0.25	0.25	2	0.25
5	Modern school New with GYM and Play ground	1	0	0	0	0	1	0	0.5	0	2	0
6	Watershed program	1	0	0.24	0.25	0	0.25	0.21	0.25	0	1	0.45
7	Water body strengthening/ Drinking water bore well drilling		0	0	0.25	0.2	0.25	0.2	0.25	0.11	1	0.51
8	Drainage		0.25	0	0.25	0.39	0.25	0.1	0.25	0	1	0.49
9	Government school improvement	1	0	0.47	0.25	0.34	0.25	0.17	0.25	0.02	1	1
Total			**1.5**	**1.03**	**3.0**	**1.12**	**4.0**	**0.94**	**2.5**	**0.593**	**13.0**	**3.68**

Enterprise Social Commitment (ESC) revised commitment submitted to MoEF&CC dated 26.09.2020 is given in Table 4

Table 4 : Revised Fund Allocation for ESC as per letter submitted to MoEFCC (Rs. In Crs)

Sl.No	Sectors	Details	Total Rs in Cr
			Commitment
1	Health	Health & Eye Camps to public and school students , Hospital improvement	1.22
2	Education	School library support , career guidance , sports support , Anganwadi support , class toppers prize to school students, School Technology improvement	1.22
3	Infrastructure Development	School and Educational institution infrastructure improvement , village infrastructure improvement , toilet construction in schools and villages , village library support , Drainage improvement , road improvement , water body improvement , desilting of channels, pond and reservoir	4.7
4	Livelihood support	Need based training (Eg Tailoring , ARI , Zardoshi) to women , Spoken English training to unemployed youth to increase their employability level, organic training to farmers , agricultural inputs to Farmers , exposures trips to farmers , sponsorship to farmers for various training	1.18
5	Others	Waste Management support , sports related support in schools and Villages, awareness creation programs in schools and villages and other need based activities	1
Total in Rs. Crs (shall be spent)			**9.32**
Total spent Crs. Till June 2020			**3.68**
Total in Rs. Crs (as the commitment made)			**13.00**

Total Amount spent on Enterprise Social Commitment (ESC) from July 2020 to March 2022 is given in Table 5

Table 5 ESC spent from July 2020 to March 2022

Sl. No.	Description of activities	ESC fund Rs. in Crs	
		Committed	Spent
1	Health	0.13	0.14
2	Education	0.23	0.01
3	Infrastructure Development	0.63	0.19
4	Livelihood support	0.00	0.00
5	Others	0.00	0.00
	Total in Crs.	**0.99**	**0.34**

Total Amount spent on Enterprise Social Commitment (ESC) from April 2022 to September 2024 is given in Table 6

Table 6: ESC spent details from April 22 to March 25

Sl. No.	Description of activities	April – September 22		October – March 23		April – March 24		April – September 24		October 24 to March 25		Total spent in Crs from July 2017 onwards to till March 25
		Committed (Rs in Crs)	Spent (Rs in Crs)	Committed (Rs in Crs)	Spent (Rs in Crs)	Committed (Rs in Crs)	Spent (Rs in Crs)	Committed (Rs in Crs)	Spent (Rs in Crs)	Committed (Rs in Crs)	Spent (Rs in Crs	(Rs. in Crs)
1	Health	0	0	0.25	0.08	0.43	0.43	0.125	0.125	0.009	0.009	0.644
2	Education	0.5	0.5	0.15	0.01	0.48	0.48	0.0083	0.0083	0.076	0.076	1.0743
3	Infrastructure Development	0	0	0.15	0.08	1.13	1.13	0.1122	0.1122	0.56	0.56	1.8822
4	Livelihood support	0	0	0.2	0	0.00	0.00	0.00	0.00	0	0	0
5	Others	0	0	0.25	0.28	0.5	0.5	0.658	0.0658	0.122	0.122	0.9678
	Total in Crs	**0.5**	**0.5**	**1**	**0.45**	**2.54**	**2.54**	**0.31**	**31.15**	**0.76**	**0.76**	**4.56**
	ESC spent from 2017 onwards to till March 25	**Total ESC spent Rs. in Crs till Sept 24 (3.68+0.34+3.49)**										**8.58**

Total Amount spent on Enterprise Social Commitment (ESC) from April 2022 to March 2025 is given in Table 6

Table 7 ESC spent from April 2025 to September 2025

Sl. No.	Description of activities	ESC fund Rs. in Crs	
		Committed	Spent
1	Health	0.15	0.15
2	Education	0.05	0.00
3	Others	0.15	0.15
	Total in Crs.	**0.35**	**0.30**

ESC spent from 2017 onwards to till September 2025	**8.88**

Village Adoption Program April 2025 to September 2025

JSW Steel Limited

JSW Steel

JSWSL/STTEL/ENVT/ECCC/LA/2025-26/53
08rd July 2025

To:

Block Development Officer,
Mecheri, Salem Dt.-636453.

Dear Sir,

Sub: JSW Steel Ltd., Salem Works – Village Adoption plan submitted to MoEF&CC and action plan - reg

Ref: EC issued to our Steel Plant vide file no. J-11011/281/2006-IA. II(I) dated 20.05.2025

JSW Salem cherishes people and believes in inclusive growth to facilitate creation of a value-based and empowered society through continuous and purposeful engagement of society around.
We support sustainable rural development through lake desilting, greenery, and eco-friendly farming. Our initiatives include building toilets, installing RO water systems, and promoting hygiene. We enhance education with life skills, environmental learning, and student aid. These efforts improve livelihoods, health, and learning in surrounding villages for lasting impact.

As part of the Village Adoption Project, we have proposed to adopt three villages: M. Kalipatti, Amarathanoor and Pottaneri. The planned areas of intervention include Health & Nutrition, Education, Agriculture, Water Management, and Environmental Management. Preliminary activities have already commenced.

At Kuttapati, a rainwater harvesting pond has been developed, enhancing irrigation capacity for approximately 193 hectares of agricultural land. Furthermore, 350 saplings have been planted to promote greenery, improve air quality, and raise environmental awareness through active community participation.

This is for your kind information and records. Kindly acknowledge the receipt of this letter.

Thanking you,

For JSW Steel Limited
A R Aricai
Associate Vice President (HR &ADMIN)

Yours faithfully,
For JSW Steel Limited, Salem works

Encl.: Copy of the Environmental Clearance

Copy Received
Block Development Officer (I/C)
MECHERI.

Salem Works
P.O. Pottaneri, Mecheri,
Mettur-Tk, Salem-Dt. Pin :636 453
Tamilnadu, India.
CIN No L27102MH1994PLC152925
www.jsw.in

Registered Office
JSW Centre
Badra Kurla Complex
Bandra East, Mumbai 400 051
T + 91 22 4286 1000
T + 91 22 4286 3000

JINDAL
O.P. Jindal Group

Table 1: Three years plan for Village Adoption program (VAP)

JSW Steel Limited - Village Adoption program								
No. of villages to be adopted by each Company:								
1) JSW Steel: 4 nos of village Panchayat.								
Particulars	**Proposed Activity**	**Year Wise Expenditure**						**Tentative Budget (Rs. in lacs)**
		1st Year		**2nd Year**		**3rd Year**		
		Proposed Villages	**Budget in Lakhs**	**Proposed Villages**	**Budget in Lakhs**	**Proposed Villages**	**Budget in Lakhs**	
Health & Nutrition	Upgradation of Primary Health Centre	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15
Education	Lifeskill Development for government school students	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15
	UDAAN Scholarships Program for students persuing higher studies	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15

Agriculture	Development of Agriculture in the area through Organic cultivation promotion, Package of Practices, Awareness on better farming practices.	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15
	Developing FPOs of local farmers with microenterprise development	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15
Water Management	Desilting lakh and ponds in and around villages to improve the ground water facilities	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	15
Environment Management	Increasing green cover in the Mecheri Diz Villages	4 Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	7	4Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	5	4Villages of DIZ - M. Kalipatti, Amarathanoor,Pottaneri and Parinagar.	8	20
		Total	**37**	**0**	**35**		**38**	**110**
		Grand Total						**1.10 Cr**

***NOTE**: Nature of the activities can be interchanged from village to village based on the outcome of need base analysis during the execution phase in coordination with local Gram Panchayat within the overall budget proposed here for Socio- Economic Development Plan.*
2)Zero date for the proposed activity will be considered from the date of approval of respective Gram Panchayat's.

Table 2: Spent from April 2025 to September 2025

S.No	Name of the Villages	Intervention	Committed in Crs (INR) for April 25 to Sep 25	Spent in Crs (INR) From April 25 to Sep 25	Remarks
1	M. Kalipatty	Agriculture	0.05	0.05	Ongoing
2	Pottaneri				
3	Amarathanoor	Education	0.0465	0.116	Ongoing
4	Mecheri	Environment Management	0.05	-	Ongoing
Total			0.1465	0.0616	

The allocated funds recorded under the Corporate Social Responsibility (CSR) budget are utilized to support and implemented various development initiatives carried out through designated adoption village projects.

AGRI-LIVELIHOOD DRIP IRRIGATION:

In M. Kalipatty Panchayat, innovative crop diversification initiative introduced to encourage farmers to cultivate high-value flowering crops such as jasmine and dragon fruit. Under this project, around 50 cents of land in each field have been allocated specifically for these crops. To support this transition and enhance productivity, drip irrigation systems installed, enabling efficient water usage and improved crop health. As a result, daily jasmine flower harvests have significantly increased—from just1 kg to an impressive 3–4 kg per farmer. Given that jasmine sells at approximately Rs.1000 per kg, this has opened up a lucrative income source for the participating farmers. Currently, the project is active across four villages, directly benefiting 15 farmers by increasing their earnings and promoting sustainable agriculture. This initiative not only boosts local livelihoods but also sets an example for modern, resource-efficient farming practices in rural areas.

AGRI-LIVELIHOOD INTERVENTIONS – EFFICIENT IRRIGATION SYSTEM:

To address water scarcity, enhance crop yields, and reduce cultivation costs, a micro-irrigation system introduced to farmers in DIZ village. This efficient irrigation method transformed 25 acres of farmland from traditional flood irrigation to drip irrigation, specifically for vegetable crops like tomatoes, bhendi, brinjal, and others. The drip system delivers water directly to plant roots, conserving water and improving crop productivity, ultimately supporting sustainable farming practices and boosting farmers' income in the region.

STRENGTHENING ENVIRONMENT EDUCATION (EE) IN SCHOOL SYSTEMS:

A group of 45 students from Amarathanoor Government Middle School conducted an activity focused on the importance of biodiversity. During the session, they explored the fascinating ways in which all living things on Earth are interconnected. The students learned about the food chain, gaining a clear understanding of how energy flows from one organism to another. They discussed real-life examples from their local environment, which helped make the topic more relatable and meaningful. Through interactive lessons and hands-on activities, the children realized how delicate and balanced ecosystems are, and how human actions can either protect or harm nature. Most importantly, the students discovered their personal role in preserving biodiversity and caring for the planet. This experience not only deepened their knowledge of the natural world but also inspired a sense of environmental responsibility that they can carry forward into the future.

GREEN MECHERI PROJECT:

In Mecheri, 3,600 saplings planted to enhance greenery and support environmental conservation. Six varieties of saplings introduced, including Pungam, Vagai, Neermaruthu, Magilam, Neem, and Manila Tamarind. These diverse tree species carefully selected for their ecological benefits, such as improving soil quality, providing shade, and supporting local biodiversity. This largescale plantation effort aims to promote sustainable development and contribute to a healthier, greener community in Mecheri