JSW Steel Limited

JSWSL/ENVT/MoEF&CC/HYR2/2025-26/31
28th May 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 October - March 2025 - Reg.

Ref: 1. Environmental Clearance F. No. J-11011/281/2006-IA. II(I) EC dated 10.02.2020
2. EC amendment F. No. J-11011/281/2006-IA. II(I) dated 07.08.2019
3.Environmental Clearance F. No. J-11011/281/2006-IA. II(I) dated 07.07.2017

With reference to the above, please find enclosed the six-monthly compliance status report for the period October 2024 to March 2025 pertaining to the Environmental Clearances granted to JSW Steel Ltd., Salem Works.

We request you to kindly acknowledge the receipt of this submission for our records.
Thanking you,

Yours faithfully,

For JSW Steel Limited., Salem Works

B N S Prakash Rao
EVP- Plant Head

Encl: Condition Compliance status report for the period October - March 2025

Cc:

Regional Directorate, Central Pollution Control Board,
77-A, Padi, Ambattur Industrial Estate Road, Mogappair, Chennai, Tamil Nadu -58

The Member Secretary, Tamil Nadu Pollution Control Board,
100, Anna Salai, Guindy, Chennai – 600 032.

The Joint Chief Environmental Engineer (M), TNPCB, Salem Region, No # 9, 4th Cross Street, Brindhavan road, Fairlands, Salem -636016.

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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)1.3 MTPA

TAMIL NADU, INDIA, 636453

Reporting Period: October 2024 to March 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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Compliance Status report to the EC (Value Addition) dated.10.02.2020 as on 31.03.2025

The approved projects in the EC dated 10.02.2020 and the present status is given below

Sl. No	Facilities	Project status	CTO-EXP-II	CTO-EXP-III
1	COP #1 stack replacement by 2 number of stacks	Completed		√
	COP #2 stack replacement by 2 number of stacks	Yet to start		
2	Sinter plant sinter cooler waste heat diversion to GGBFS	Completed		√
3	Emission reduction project in SP#2-WGF	Completed		
4	GGBFS (0.8 MTPA)	Completed		√
5	LRF#1 stack modification	Completed		√
6	Additional one LRF with VD system (BF gas fired boilers 2 Nos)	Under progress		
7	Fume exhaust system in CCM#1 & 3	Yet to start		
8	ABGM in CCM#1 & 2	Completed		√
9	Pickling & Annealing Steel	Completed	√	
10	Emission reduction project in CPP#2 coal based boiler	completed	√	
11	DG set - 8 No's (6 Nos for Steel and 2 Nos for CPII)	Completed		√ (6 No.)
12	Paver block making facility	Completed		√
13	Acid fumes extraction system in Etching lab	Completed		√
14	Slag crushing unit	Completed		√
15	Batching plant	Completed		√
16	Coke cutter dedusting system in COP	Completed		√
17	COP #3 stack modification	Completed		√
18	WHRB#3 stack modification	Completed		√
19	Steam exhaust system#2 in CCM#3	Completed		√
20	Thermic fluid heater for ATFD in pickling plant ETP	Yet to start		

*** Part of EC expansion dated 07.07.2017 LRF 5 Installation started at November 2024.

Compliance to EC Conditions of 0.8 MTPA Slag grinding unit, new facilities related to value addition and technological upgradation within the existing 1.3 MTPA integrated steel plant premises. The manufacturing facilities details as per EC dated 10.02.2020 is given below

Sl. No	Manufacturing Units	Existing Capacity (MTPA)	Proposed Expansion (MTPA)	Total Capacity after Expansion (MTPA)	Project execution phase and current status
1	Coke Oven Plant -1 (Non – Recovery Type)	0.50	-	0.5	Nil
2	Sinter Plant – 1 (20 Square Meter)	0.175	-	0	Nil
3	Sinter Plant – 2 (90 Square Meter)	1.06	-	1.06	Nil
4	Sinter Plant – 3 (90 Square Meter)	-	1.06	1.06	Yet to start (Phase #2)
5	Blast Furnace – 1 (402 to 650Cubic Meter)	0.367	0.316	0.683	Yet to start (Phase #2).
6	Blast Furnace – 2 (550 to 650Cubic Meter)	0.578	0.105	0.683	Completed in Phase#1
7	Energy Optimizing Furnace – 1 (65T)	0.41	0.23	0.64	Completed in Phase#1
8	Energy Optimizing Furnace – 2 (65T)	0.62	-	0.62	Nil
9	Ladle Furnace - 1 with Common VD (45 T to 65 T)	45 T/heat	20 T/heat	65 T/heat	Completed in Phase#1
10	`	65 T/heat	-	65 T/heat	Nil
11	Ladle Furnace - 3 common VD (65T)	65 T/heat	-	65 T/heat	Nil
12	Ladle Furnace - 4 (65 T)	65 T/heat	-	65 T/heat	Nil
13	Continuous Casting Machine - 1	0.35	-	0.35	Nil
14	Continuous Casting Machine - 2	0.50	-	0.50	Nil
15	Continuous Casting Machine - 3	-	0.45	0.45	Completed in phase#1
16	Bar & Rod Mill Augmentation	0.4	0.08	0.48	Completed in phase#1
17	Blooming Mill Augmentation	0.36	0.12	0.48	Completed in phase#1
18	Pickling and Annealing Steel unit	-	0.06	0.06	Completed in phase#1

19	Peeled and ground	-	0.04	0.04	0.01 MTPA completed in phase #1. Balance yet to start (phase#2)
20	Air Separation Plant 1	150 T/day	-	150 T/day	Nil
21	Air Separation Plant 2	390 T/day	-	390 T/day	Nil
22	Air Separation Plant 3	-	250 T/day	250 T/day	Yet to start (Phase #2)
23	Captive Power Plant -1	7 MW	-	7 MW	Power generation has been stopped from 01.10.2021 and the product withdrawn from the CTO
24	Captive Power Plant -2	2 x 30 MW		2 x30 MW	In operations
25	Captive Power Plant -3 (Unit 3 of CPP#2)	-	1 x 30 MW	1 x 30 MW	Completed in phase#1

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.	Complied, the GGBFS, 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 9 mg/Nm^3, meeting regulatory standard. Please refer **Annexure 1** 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. SW 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 experts from Periyar University is 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 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 water.
iii.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have obtained authorization from TNPCB under Hazardous and other Waste Management Rules, 2016 and the authorization is valid till 31.03.2026.

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 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. 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 1 & 2**
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.	As per the Environment (Protection) Rules 1986 vide G.S.R. 277(E) dated 31st March 2012 (Integrated iron & Steel); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plant) the unit is monitoring the fugitive emissions in the plant on monthly basis by a NABL accredited external laboratory and TNPCB by Biannually. The fugitive emission results are well within the standards.
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.	Being 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 PM_{10}, $PM_{2.5}$, SO_2, 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 battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings.	Complied, there are 3 no. of coke oven batteries installed adjacent to each other in the Coke Oven Plant. An IP camera has been installed in 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 1 & 2** The last six - monthly compliance report submitted to MoEF&CC on 28.11.2024.
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 4**
viii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	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, dedicated secondary de-dusting systems at Energy Optimizing Furnace (EOF) & Ladle Refining Furnace (LRF) are installed to control the secondary emission. However, JSW Salem Works not installed Converters.
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 5**
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 (SOP) 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 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 conduct 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.
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 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 conduct 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.
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 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.

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 conduct 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 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 conduct 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.
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 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 conduct 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.

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 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 SPCB along with six-monthly monitoring report.	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-monthly monitoring report. Please refer **Annexure 6**
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 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 conduct 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.

iv.	Adhere to 'Zero Liquid Discharge'	Being Complied, we have established Zero Effluent Discharge system and wastewater generated from the various process 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 process 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 7**
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.	Being complied, Tyre washing unit is provided at the entrance of the plant gate to control the fugitive emission from vehicular movement. For images refer **Annexure 4**
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 where the pH is about 6.5 -7.0 and hence alkalinity of existing circulating water is under control. Hence addition of CO_2 injection is not anticipated.
ix.	The project proponent shall practice rainwater harvesting to maximum possible extent.	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.

		In FY 2024–25, approximately 60000 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 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 conduct 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.
xi.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Being 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 refe**r Annexure 8**
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 8**
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 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 conduct 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.
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 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 conduct 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.
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 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 conduct 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.
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 type 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 with grid support.
viii.	Restrict Gas flaring to < 1%	Being complied, BF waste gas is maximum used in all the shop floors as gaseous fuel where by usage of fossil fuel is optimized. To the effective utilization online monitoring system(SCADA) is installed to 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 operations to produce ground granulated BF slag which is directly sold to cement industries and open market as a value addition byproduct.
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, we have installed non-recovery type coke oven and hence the general condition not applicable. Now, the condition also will be taken to the EC amendment for exemption for which study is undertaken by M/s. CIMFR
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, the unit is treating the GCP slurry 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 slag crushing facility to handle SMS slag to segregate iron bearing materials as scrap which is reused in SMS process where by certain level of GHG emission is reduced. SMS slag is crushed in to various sizes and used for various processes/application and sold to local vendors.
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	Being Complied, we have installed a slag crushing facility to handle SMS slag to segregate iron bearing materials as scrap

	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.	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 100% 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 boilers is 100% sent to local fly ash brick manufacturers. Sale order (MoU) has been issued all the fly ash brick manufactures through Sale 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 Waste 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.	Being Complied, a Biogas plant is installed at the canteen area and kitchen waste is converted into biogas and the same is used in Canteen as alternative 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. As of March 2025, 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 reduction of the same including carbon sequestration including plantation.	Being Complied, the GHG emissions inventory for the plant is compiled and submitted annually, incorporating carbon sequestration data derived from tree plantation efforts. For the 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 July 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 analyses 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, 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.	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, with respect to the Corporate Environmental Responsibility all the actions are being implemented and progress report is being submitted **Annexure 9** regularly along with the six monthly compliance reports. The changes with respect to the needs of surrounding villages are reviewed and accordingly the ESC revised action plan status was communicated through to the MoEF&CC vide their letter dated 26.09.2020
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 and it goals and Environmental and other polices are duly approved by the Board of Directors is in place. Systems for reporting deviation/violation of environmental norms/conditions exists and are being followed and incase of any deviation is reported along with the six monthly compliance report.
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.	Complied. A dedicated Environmental cell is in place with qualified personnel under the control of Senior Executive, 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.

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 monthly/annually. Environment Audit is being carried out by external agencies once in year and confirming with the standard of ISO 14001:2015. Now, Actions are taken to conduct third party environmental audit.
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented.	Being Complied, all the recommendations of the Charter on the Corporate Responsibility for the Environmental Protection (CREP) issued for the steel plants are implemented and the compliance status report **Annexure 5** is being submitted along with six monthly compliance reports.
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 on 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 30.11.2024
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 concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being Complied, The Environmental Statement as prescribed under the Environment (Protection) Rules, 1986, for each financial year ending 31st March in Form-V is being submitted every year and displayed on the website of the company. For FY 2024 the report has been submitted on 25.09.2024.
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.	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 months' compliance report.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	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.	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).	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.	Abide by the order
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Abide by the order
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary.	Abide by the order

	The Company in a time bound manner shall implement these conditions.	
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	Abide by the order
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules 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.	Abide by the order
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	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.	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, Occupational Health Survey (OHS) of the active workmen involved is being carried out as per the ILO guidelines and all the employees are being covered to the health survey @ 100% every year.
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. As of March 2025, ₹8.58 Crores has been utilized from the ESC allocation. Detail report is given as **Annexure 9**
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, 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.
iv.	The project proponent shall provide for LED lights in their offices 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.
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 process 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 process 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 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 Applicable. As per EPA notification 2012 which is applicable to the Integrated Iron & Steel refer the visible emissions to by-product type coke oven. The Coke Oven Plant installed at our site is non recovery type which operated 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 1 & 2** and Effluent quality monitoring results are given in **Annexure 6**
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 1 & 2**
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, SO_2 & 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.
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 be prepared every year by the project	Being Complied, The GHG emissions inventory for the plant is compiled and submitted annually, incorporating carbon sequestration data derived from tree plantation efforts. For the 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,

	proponent. The first such budget shall be prepared within a period of 6 months and subsequently it should be prepared every year.	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 July 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 alternated to other jobs and ensured that no employee is subjected to work in high temperature area (greater than 50°C) for more than 1 hr continuously. Enough ventilation is provided in the hot zone areas and the maximum time exposed (up to 45°C) is about 10-15 minutes only during handling of hot metal/Crude steel as informed. Further, the workmen are provided with proper personnel protective equipment's, Aluminium coat, garments & gears such as head gear, clothing, gloves, eye protection, etc. and arrangements are made for sufficient drinking water, butter milk and lime juice to prevent dehydration.
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.	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. In FY 2024–25, approximately 60000 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.
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	Complied. All the Blast Furnace Slag is converted to Granulated slag and now sending to GGBFS unit for value added product.

	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 off in environment-friendly manner.	Flue dust from blast furnace, sludge from BF & EOF, Coke breeze from coke oven plant are re-used in sinter plant. Pellet plant is not installed in our process. 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. 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. Coal and coke fines are recycled and reused in the Sinter plant and Blast Furnace. Coke breeze and dust from the air pollution control systems are collected and reused in the Sinter Plant. 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.	Being 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 the recommendations of the Charter on the Corporate Responsibility for the Environmental Protection (CREP) issued for the steel plants are implemented. Updated Compliance status report of CREP is enclosed vide **Annexure 5**
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	Being Complied. An allocation of ₹13 Crores has been earmarked under CAPEX for Enterprise Social Commitment (ESC), with implementation of the associated action

	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.	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, ₹8.58 Crores has been utilized from the ESC allocation. Detail report is given as **Annexure 9**
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 (as group company) by the Corporate Team. The updated report of CSR for FY 2025 is attached as **Annexure 9**

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.	Being 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	Being Complied. Industrial wastewater is being collected, treated and reused 100% for secondary applications such as cooling, dust suppression and

	1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	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 6**
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. Source and 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 noise levels of source and ambient 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 8**
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. In FY 2024–25, approximately 60000 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 organization, etc. The details are given **Annexure 9** 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 H2 of FY 2024-25 (October- March 2025), approximately Rs. 0.81 crores have been spent as capital costs on environmental pollution control measures. Additionally, around Rs. 8.82 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. The copy of clearance letter is uploaded to our website.
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including	Being Complied. The compliance of the stipulated environment clearance conditions including results of monitored

	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.	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; PM_{10}, SO_2, NO_X 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.	Complied, Environmental conditions and compliance status report including results of monitored data (both in hard copies as well as by e-mail) 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 2024, the report was submitted on 25.09.2024. 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	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

	concerned and a copy of the same should be forwarded to the Regional office at Chennai.	
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
EMISSION MONITORING REPORT OF TNPCB & NABL ACCREDITED LABORATORY

Stack emission monitoring report of TNPCB & NABL accredited laboratory for the period Oct 24 to Mar '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	78150	99	-	-
2	Sinter Plant – I - Cooling System	86814	57	-	-
3	Sinter Plant – I Dedusting System	134713	18		-
4	Sinter Plant – I RMHS	19432	9	-	-
5	Sinter Plant - II - Sinter Machine	428992	70	-	-
6	Sinter Plant - II - Cooling & De-dusting System	364795	22	-	-
7	Sinter Plant - II - RMHS	83404	36	-	-
8	COP - Coke cutter	34132	42	-	-
9	Coke Oven - WHRB -II	51423	21	363	207
10	Coke Oven - WHRB -III	84696	27	341	242
11	Coke Oven - WHRB -V	45085	24	320	217
12	BF Gas Fired Boiler	40676	26	213	174
13	Blast Furnace - I - Hot stove	48496	33	149	77
14	Blast Furnace - I - Stock House & RMHS	92484	45	-	-
15	Blast Furnace - I - Cast House	259846	28	-	-
16	Blast Furnace - II - Hot stove	65151	39	56	36
17	Blast Furnace - II - Stock House & RMHS	205490	38	-	-
18	Blast Furnace - II - Cast House	455469	46	-	-
19	Blast Furnace - II - PCI	41881	47	-	-
20	Process Boiler	46530	36	64	30
21	Energy Optimizing Furnace -I	65817	11	-	-
22	Energy Optimizing Furnace -II	66811	15	-	-
23	EOF Secondary dedusting system I & II	305087	22	-	-
24	Ladle Refining Furnace - 1 & 4 primary & LRF 1 to 4 Secondary dedusting	305558	33	-	-
25	Ladle Refining Furnace - 2 & 3	64414	55	-	-
26	VD boiler	13751	26	53	42.2
27	CCM-I ABGM - 1	28219	22	-	-
28	CCM-II ABGM - 2	35475	43	-	-
29	CCM-III Steam Exhaust 1	22673	8	-	-
30	CCM-III ABGM - 3	18234	45	-	-
31	BLM – Re Heating Furnace -I	27637	39	-	-
32	BLM – Re Heating Furnace -II	32676	46	-	-
33	BRM – Re Heating Furnace	72280	43	-	-
34	Pickling Plant - Acid Fumes Exhaust System Stack	22438	35	2.13	4.2
35	Pickling Plant - Acid - Hot Water Generator Stack	3029	45	1.07	5.6
36	Pickling Plant - MEE Thermic Fluid Stack	5792	16	14	21
37	GGBFS Grinding Mill Stack	134605	9	-	-
38	Batching Plant I Cement Silo vent stack	304	10	-	-
39	DG Set I (625 KVA) COP	934	48	53.3	34.2
40	DG Set (1250 KVA) CCM 3	1269	50	85	50
41	DG Set (650 KVA) BRM	1965	42	64	36
42	AFBC - Boiler	225228	21	424	220
43	COAL CRUSHER CPP 2	4894	52	-	-
44	CPP II COAL SCREENING SECTION	10845	31	-	-
45	DG Set (500 KVA) CPP 2	1228	27	13	21

II. Stack emission monitoring report of NABL accredited Laboratory					
Stack No.	Source name	Stack emission Average (mg/Nm^3)			Discharge (Nm^3/hr)
		PM	SO_2	NO_x	
1	Sinter Machine (Sinter Plant I)	116.0	57.6	51.8	84971
2	Cooling System (Sinter Plant I)	26.8	-	-	94544
3	Dedusting System (Sinter Plant I)	26.1	-	-	139134
4	Dust Extraction System For RMHS (Sinter Plant I)	25.4	-	-	24667
5	Sinter Machine (Sinter Plant II)	62.6	58.7	52.7	500330
6	Plant Dedusting and Cooling (Sinter Plant II)	53.1	-	-	461766
7	Crushing of Fuel & Raw Materials (Sinter Plant II)	46.0	-	-	124054
8	Coke Oven Chimney 1A & 1B (Coke Oven) -Emergency stack	-	-	-	-
9	Coke Oven Chimney II (Coke Oven) -Emergency stack	-	-	-	-
10	Coke Oven Chimney III (Coke Oven) -Emergency stack	-	-	-	-
11	Coke cutter dedusting system stack (Coke Oven)	31.3	-	-	40082
12	Coke Dryer dedusting system stack (Coke Oven)	26.3	-	-	119227
13	Waste Heat Recovery Boiler I (Coke Oven)	27.8	346.1	280.5	56323
14	Waste Heat Recovery Boiler II (Coke Oven)	30.0	342.4	281.5	56223
15	Waste Heat Recovery Boiler III (Coke Oven)	33.9	341.9	277.8	55501
16	Waste Heat Recovery Boiler IV (Coke Oven)	29.7	342.9	277.2	48239
17	Waste Heat Recovery Boiler V (Coke Oven)	24.1	337.1	273.1	55213
18	Hot Stove (Blast Furnace I)	23.7	55.5	47.8	48246
19	Stock House Dedusting System (Blast Furnace I)	46.9	-	-	84431
20	Cast House Dedusting System (Blast Furnace I)	31.4	-	-	322735
21	GCP Flare (Blast Furnace I) -Emergency stack	-	-	-	-
22	Hot Stove (Blast Furnace II)	22.3	57.1	49.0	64165
23	Stock House Dedusting & RMHS (Blast Furnace II)	29	-	-	319085
24	Cast House Dedusting System (Blast Furnace II)	35	-	-	541950
25	GCP Flare (Blast Furnace II) -Emergency stack	-	-	-	-
26	Pulverized Coal Injection (Blast Furnace)	43.2	-	-	55291
27	Process Boiler (1*25 TPH) and (1*8 TPH) (Common Stack)	29.0	52.8	46.4	19196
28	Energy Optimizing Furnace (Steel Melting Shop I)	51.6	56.0	47.5	44834
29	Energy Optimizing Furnace (Steel Melting Shop II)	49.5	59.2	48.3	46361
30	Secondary Dedusting System EOF I&II (Combined SMS II)	48.4	-	-	438481
31	Ladle Furnaces (Steel Melting Shop I)	40.5	52.3	45.7	21326
32	Ladle Furnaces(Common Stack) (Steel Melting Shop II)	31.4	44.3	40.2	49910
33	Ladle Furnaces -1 & 4(65 T/Heat Each) Primary & 1 to 4 Secondary Dedusting (Steel Melting Shop)	41.2	-	-	421147
34	Vacuum Degasing Unit (Boiler) (Steel Melting Shop II)	30.5	54.9	47.7	19889
35	Continuous Casting Machine (Steel Melting Shop I)	10.0	-	-	28406
36	Billet grinding machine stack - ABGM -1	49.1	-	-	28771
37	CCM#II Steam exhaust system -1	11.0	-	-	26864
38	CCM#II Steam exhaust system -2	11.7	-	-	26783
39	CCM#II Cut fumes Exhaust system	10.2	-	-	59241
40	Billet grinding machine stack -ABGM - 2	52.3	-	-	34245
41	CCM#III Steam exhaust system 1	11.2	-	-	31741
42	CCM#II Steam exhaust system stack #2	9.6	-	-	33636
43	Billet grinding machine stack -ABGM - 3	39.5	-	-	22955
44	Re-heating Furnace - Chimney- 1 (BLM	31.4	51.2	43.6	27012
45	Re-heating Furnace - Chimney- 2 (BLM)	61.7	51	44	28107
46	Reheating Furnace Chimney 1 & 2	58.8	56	43	54590
47	Pickling Plant- Acid - Hot water Generator Stack	26.2	36	44	2204
48	Picklig plant - ARP - Hot water Generator	-	-	-	-
49	Pickling plant - MEE – Thermic fluid Heater	21	29	42	7154
50	Pickling Plant- Acid Fumes exhaust system stack	8.3	-	-	23171.5
51	BF Slag Grinding mill stack	8.0	-	-	141609
52	BF Slag Grinding unit- Sinter waste Gas	-	-	-	-
53	BF Slag Grinding unit- Hot Air Generator	-	-	-	-
54	Batching plant#1 Cement silo vent stack	27.2	-	-	2531.3
55	Batching plant#2 Cement silo vent stack	-	-	-	0.0
56	BF Gas Fired Boiler	30.5	57.6	49.7	50887
57	AFBC Boiler	25.6	485	425	114026
58	Coal crusher	35.2	-	-	6387
59	Coal screening	35.7	-	-	14696
60	Raw Material Transfer and Discharge Point	35.4	-	-	1632

ANNEXURE 2

ONLINE STACK EMISSION MONITORING & AMBIENT AIR QUALITY MONITORING REPORT

Online stack emission monitoring & Ambient air quality monitoring report for the period Oct'24 to Mar'25.

I. Online stack emission monitoring summary report (Oct'24 to Mar'25.)

Stack No.	Source name	Parameter	UoM	Month					
		Month		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Sinter Machine (Sinter Plant I)	SPM	mg/Nm^3	74.4	64.5	7.61	60.36	71.17	88.89
2	Cooling System (Sinter Plant I)	SPM	mg/Nm^3	41.1	52.1	24.02	33.68	41.71	37.41
3	Dedusting System (Sinter Plant I)	SPM	mg/Nm^3	24.2	27.3	16.85	25.75	15.43	23.65
4	Dust Extraction System For RMHS (Sinter Plant I)	SPM	mg/Nm^3	31.2	23.1	3.06	12.49	6.21	18.59
5	Hot Stove (Blast Furnace I)	SPM	mg/Nm^3	17.1	20.9	13.76	20.53	13.96	11.65
6		SO_2	mg/Nm^3	53.4	70.4	71.85	135.12	94.57	82.18
7		NOx	mg/Nm^3	41.47	45.11	29.03	49.37	41.62	38.67
8		CO	ppm	1730.0	1460.3	1533.1	1973.2	1972.3	1768.4
9	Stock House Dedusting System (Blast Furnace I)	SPM	mg/Nm^3	17.17	9.45	0.28	3.68	4.11	13.79
10	Cast House Dedusting System (Blast Furnace I)	SPM	mg/Nm^3	17.19	26.70	10.06	7.67	22.02	31.59
11	Process Boiler (2 Nos of 25 TPH each (Common Stack)	SPM	mg/Nm^3	7.17	29.68	20.74	20.78	24.00	34.52
12		SO_2	mg/Nm^3	42.72	43.36	42.00	37.87	35.37	50.04
13		NOx	mg/Nm^3	79.75	87.79	86.31	77.63	72.08	103.21
14	Energy Optimizing Furnace (Steel Melting Shop I)	SPM	mg/Nm^3	42.18	58.61	26.94	14.98	45.52	17.59
15	Ladle Furnaces (Steel Melting Shop I)	SPM	mg/Nm^3	9.57	12.06	9.37	11.70	14.47	13.06
16	Energy Optimizing Furnace (Steel Melting Shop II)	SPM	mg/Nm^3	20.04	27.70	22.69	18.89	21.30	14.00
17	Secondary Dedusting System EOF I&II (Combined SMS II)	SPM	mg/Nm^3	22.30	25.61	23.76	42.73	56.41	53.05
18	Sec. Dedusting System of LRF IV (Common) (SMS II)	SPM	mg/Nm^3	31.25	20.03	16.85	16.93	38.11	41.52
19	Ladle Furnaces (Common Stack) (Steel Melting Shop II)	SPM	mg/Nm^3	19.55	31.74	18.22	36.62	15.02	10.68
20	Vacuum Degasing Unit	SPM	mg/Nm^3	27.75	46.32	39.05	34.17	23.37	27.98
21		SO_2	mg/Nm^3	36.22	34.21	30.96	29.62	30.00	29.05
22		NOx	mg/Nm^3	65.13	84.52	85.21	84.56	84.45	84.40
23	Reheating Furnace (Furnace 1 No2 Chimney) (BLM)	SPM	mg/Nm^3	21.06	55.15	56.59	36.34	40.57	46.62
24	Reheating Furnace (Furnace 1 No1 Chimney) (BLM)	SPM	mg/Nm^3	18.06	24.51	11.89	15.12	23.69	23.87

Stack No.	Source name	Parameter	UoM	Month					
		Month		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
25	Waste Heat Recovery Boiler I (Coke Oven)	SPM	mg/Nm^3	27.65	30.85	31.68	34.07	16.28	17.08
26		SO_2	mg/Nm^3	47.28	44.32	43.85	48.40	186.08	324.78
27		NOx	mg/Nm^3	135.30	130.45	124.98	118.30	161.41	208.82
28	Waste Heat Recovery Boiler II (Coke Oven)	SPM	mg/Nm^3	24.94	32.65	33.89	17.47	21.84	28.12
29		SO_2	mg/Nm^3	184.64	74.86	8.07	9.11	184.39	344.70
30		NOx	mg/Nm^3	119.00	103.52	100.99	112.24	173.78	227.31
31	Waste Heat Recovery Boiler III (Coke Oven)	SPM	mg/Nm^3	28.33	32.76	27.97	31.52	33.77	33.54
32		SO_2	mg/Nm^3	64.67	190.48	258.67	217.20	225.32	214.01
33		NOx	mg/Nm^3	113.68	186.64	182.70	165.70	194.52	209.21
34	Waste Heat Recovery Boiler IV (Coke Oven)	SPM	mg/Nm^3	23.23	29.19	29.16	29.81	30.09	30.24
35		SO_2	mg/Nm^3	202.10	29.19	229.46	224.81	225.35	227.60
36		NOx	mg/Nm^3	160.16	148.05	147.84	144.81	195.24	145.71
37	Waste Heat Recovery Boiler V (Coke Oven)	SPM	mg/Nm^3	19.18	18.09	15.83	20.47	30.09	18.30
38		SO_2	mg/Nm^3	303.78	292.13	264.08	282.94	225.25	295.09
39		NOx	mg/Nm^3	194.30	196.25	205.61	223.95	145.25	228.67
40	BF Gas Fired Boiler(BFG)	SPM	mg/Nm^3	18.74	28.72	33.21	29.75	30.48	33.14
41		SO_2	mg/Nm^3	60.89	105.08	78.61	58.77	42.60	47.18
42		NOx	mg/Nm^3	37.45	67.18	79.95	84.19	95.19	97.15
43	Reheating Furnace (Bar & Rod Mill)	SPM	mg/Nm^3	64.10	29.19	48.04	49.11	23.69	57.56
44	Sinter Machine (Sinter Plant II)	SPM	mg/Nm^3	49.29	76.01	60.27	64.08	61.41	70.07
45	Plant Dedusting and Cooling (Sinter Plant II)	SPM	mg/Nm^3	36.69	41.99	46.99	52.43	40.39	51.06
46	Crushing of Fuel & Raw Materials (Sinter Plant II)	SPM	mg/Nm^3	45.81	40.65	35.48	31.94	13.78	0.90
47	Hot Stove (Blast Furnace II)	SPM	mg/Nm^3	15.24	8.58	9.37	9.51	7.23	9.83
48		SO_2	mg/Nm^3	17.42	60.23	25.47	54.80	51.73	29.92
49		NOx	mg/Nm^3	9.83	33.99	15.11	31.09	29.90	15.12
50		CO	ppm	551.38	1044.60	455.37	515.91	1305.20	1375.98
51	Stock House Dedusting & RMHS (Blast Furnace II)	SPM	mg/Nm^3	18.47	26.64	21.33	27.30	23.66	25.66
52	Cast House Dedusting System (Blast Furnace II)	SPM	mg/Nm^3	15.90	26.12	23.36	30.96	31.15	32.41
53	Pulverized Coal Injection (Blast Furnace)	SPM	mg/Nm^3	22.92	44.66	29.47	44.68	22.04	11.95
54	CPPII-AFBC Boiler	SPM	mg/Nm^3	29.93	25.97	17.92	13.66	15.45	14.32
55		SO_2	mg/Nm^3	494.15	483.62	428.42	305.13	424.42	346.31
56		NOx	mg/Nm^3	292.77	342.72	287.47	235.42	363.76	321.27

II. Continuous Ambient Air Quality Monitoring Results (Oct 24 to Mar '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	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	mg/m^3	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	mg/m^3
Oct-24	40.00	30.00	11.00	8.00	0.20	46.00	28.00	12.00	25.00	0.25
Nov-24	62.62	37.08	10.05	10.44	0.30	61.01	31.66	17.92	20.97	0.37
Dec-24	48.10	31.80	12.60	8.00	0.40	55.90	30.50	23.70	20.50	0.30
Jan-25	66.00	39.00	15.00	9.00	0.40	68.10	37.00	20.90	28.10	0.40
Feb-25	49.65	38.20	10.90	9.61	0.18	55.60	37.50	24.50	20.50	0.50
Mar-25	43.50	32.02	7.67	7.13	0.17	48.58	35.25	15.69	13.83	0.33

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	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	mg/m^3	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	mg/m^3
Oct-24	47.00	25.00	25.00	15.00	0.20	41.00	28.00	13.00	11.00	0.20
Nov-24	64.44	35.64	25.46	25.57	0.65	63.59	38.81	11.96	8.83	0.52
Dec-24	53.10	34.40	24.80	14.40	0.40	58.40	38.60	13.20	6.90	0.40
Jan-25	67.80	38.00	12.70	16.90	0.40	67.80	42.00	13.10	9.90	0.40
Feb-25	57.70	30.40	13.10	16.42	0.39	58.10	35.70	7.45	16.00	0.45
Mar-25	62.57	25.95	20.59	6.93	0.31	48.87	31.92	15.85	18.31	0.46

Tolerance limit: PM10: 100 $\mu g/m^3$, PM2.5: 60 $\mu g/m^3$, NO2: 80 $\mu g/m^3$, SO_2: 80 $\mu g/m^3$,
CO: 1 hr avg - 4 mg/m^3 , 8 hr avg - 2 mg/m^3

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	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	42.73	22.23	9.24	13.87	43.34	21.57	9.47	14.90
Nov-24	47.55	21.33	9.67	17.75	44.36	19.54	10.20	12.80
Dec-24	48.44	21.72	9.87	18.10	47.14	19.85	10.43	13.04
Jan-25	48.60	20.61	9.24	17.38	48.17	18.83	9.76	12.52
Feb-25	52.62	22.44	9.95	15.29	52.16	20.51	10.51	11.02
Mar-25	55.18	24.07	10.59	13.39	54.70	21.96	11.13	9.65
Month	AQ-3 (Unit - µg/m3)				AQ-4 (Unit - µg/m3)			
	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	44.80	20.90	9.80	16.20	49.40	25.20	10.80	12.20
Nov-24	42.90	19.10	9.50	12.80	44.50	19.40	10.40	11.00
Dec-24	43.70	19.40	9.60	13.00	45.30	19.70	10.60	11.10
Jan-25	43.80	18.40	9.00	12.50	47.70	18.70	9.90	10.70
Feb-25	46.80	20.10	9.70	11.00	49.80	20.40	10.70	9.40
Mar-25	49.20	21.40	10.30	9.80	52.20	21.90	11.30	8.20
Month	AQ-5 (Unit - µg/m3)				AQ-6 (Unit - µg/m3)			
	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	47.10	22.70	10.90	15.50	44.40	20.80	9.30	17.10
Nov-24	45.90	20.10	10.10	11.70	47.90	23.90	11.30	13.40
Dec-24	48.30	20.40	10.30	12.00	49.00	24.30	11.60	13.60
Jan-25	52.00	21.40	10.60	12.70	53.60	25.50	12.00	14.40
Feb-25	51.00	23.30	11.40	11.10	53.00	27.70	12.90	12.70
Mar-25	53.30	24.70	12.00	10.00	54.90	29.80	13.60	11.10
Month	AQ-7 (Unit - µg/m3)				AQ-8 (Unit - µg/m3)			
	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	41.46	19.08	9.85	12.31	40.14	18.64	9.14	12.31
Nov-24	42.64	20.55	10.98	16.46	43.89	22.06	9.88	15.29
Dec-24	44.42	21.21	10.62	15.53	45.72	22.77	9.56	14.42
Jan-25	49.54	22.66	11.22	16.76	53.27	24.85	10.03	15.57
Feb-25	50.02	24.67	12.08	14.75	54.94	27.06	10.80	13.70
Mar-25	52.49	26.45	12.83	12.92	56.41	28.90	11.46	12.00
Month	AQ-9 (Unit - µg/m3)				AQ-10 (Unit - µg/m3)			
	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	41.10	19.00	10.00	10.60	42.9	19.6	9.8	11.3
Nov-24	44.50	21.40	10.10	16.40	46.50	20.80	10.50	17.90
Dec-24	46.40	22.10	9.80	15.50	48.40	21.50	10.10	16.90
Jan-25	52.82	26.21	10.14	15.68	52.49	22.90	10.51	18.12
Feb-25	55.30	26.10	11.10	14.70	55.20	24.90	11.50	16.00
Mar-25	57.70	27.60	12.10	13.00	56.20	26.60	12.20	14.10
Month	AQ-11 (Unit - µg/m3)				AQ-12 (Unit - µg/m3)			
	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Oct-24	44.8	23.3	10.9	12.9	41.50	20.70	10.30	14.90
Nov-24	49.00	25.00	11.50	13.40	48.40	22.50	11.60	17.10
Dec-24	51.00	25.80	11.10	12.70	50.40	23.30	11.20	16.10
Jan-25	48.55	24.34	10.32	12.60	47.29	22.31	10.40	15.51
Feb-25	53.60	27.10	11.40	10.90	51.50	24.80	11.60	13.80
Mar-25	55.90	28.40	12.20	9.70	54.60	26.50	12.30	12.10

Tolerance limit: PM10: 100 µg/m^3, PM2.5: 60 µg/m^3, NO_2: 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, AAQ12:Mr. Venkatesan – Pottaneri.

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	42.73	43.34	42.90	44.50	45.90	44.40	41.46	40.14	41.10	42.90	44.80	41.50
Maximum	55.18	54.70	49.20	52.20	53.30	54.90	52.49	56.41	57.70	56.20	55.90	54.60
Average	49.19	48.31	45.20	48.15	49.60	50.47	46.76	49.06	49.64	50.28	50.48	48.95
Standard deviation	4.31	4.41	2.38	2.91	2.93	4.04	4.51	6.69	6.59	5.22	3.94	4.45
98th Percentile	54.92	54.45	48.96	51.96	53.17	54.77	52.24	56.26	57.46	56.10	55.67	54.29

$PM_{2.5}$ 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	20.61	18.83	18.40	18.70	20.10	20.80	19.08	18.64	19.00	19.60	23.30	20.70
Maximum	24.07	21.96	21.40	25.20	24.70	29.80	26.45	28.90	27.60	26.60	28.40	26.50
Average	22.07	20.38	19.88	20.88	22.10	25.33	22.44	24.05	23.74	22.72	25.66	23.35
Standard deviation	1.18	1.21	1.13	2.38	1.79	3.14	2.74	3.69	3.38	2.64	1.86	2.04
98th Percentile	23.91	21.92	21.35	24.87	24.56	29.59	26.27	28.72	27.46	26.43	28.27	26.33

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	9.24	9.47	9.00	9.90	10.10	9.30	9.85	9.14	9.80	9.80	10.32	10.30
Maximum	10.59	11.13	10.30	11.30	12.00	13.60	12.83	11.46	12.10	12.20	12.20	12.30
Average	9.76	10.25	9.65	10.62	10.88	11.78	11.26	10.15	10.54	10.77	11.24	11.23
Standard deviation	0.51	0.59	0.42	0.46	0.71	1.49	1.06	0.85	0.89	0.91	0.63	0.77
98th Percentile	10.53	11.07	10.25	11.25	11.94	13.53	12.76	11.39	12.00	12.13	12.13	12.23

NO_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	13.39	9.65	9.80	8.20	10.00	11.10	12.31	12.00	10.60	11.30	9.70	12.10
Maximum	18.10	14.90	16.20	12.20	15.50	17.10	16.76	15.57	16.40	18.12	13.40	17.10
Average	15.96	12.32	12.55	10.43	12.17	13.72	14.79	13.88	14.31	15.72	12.03	14.92
Standard deviation	2.06	1.80	2.17	1.42	1.87	2.00	1.84	1.49	2.16	2.61	1.42	1.77
98th Percentile	18.07	14.71	15.88	12.09	15.22	16.83	16.73	15.54	16.33	18.10	13.35	17.00

Tolerance limit: PM10: 100 µg/m^3, PM2.5: 60 µg/m^3, NO_2: 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.

ANNEXURE 3

GREENBELT PHOTOS

Greenbelt Development within premises

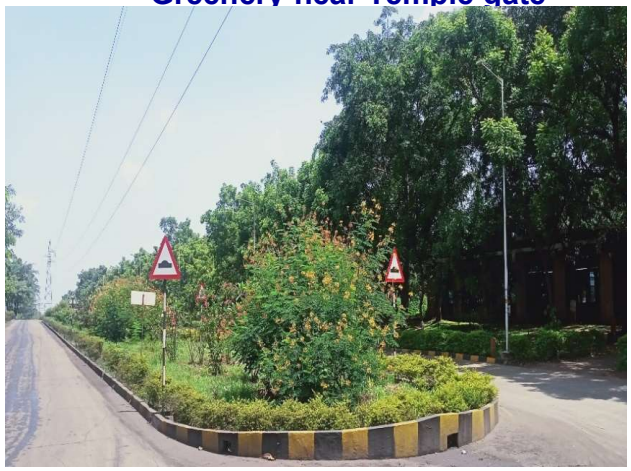
Greenery near BF#1

Greenery near Temple

Greenery near Temple gate

Greenery near Canteen

Greenery near Blooming Mill



Tree planation along the road side

Greenbelt Development within premises

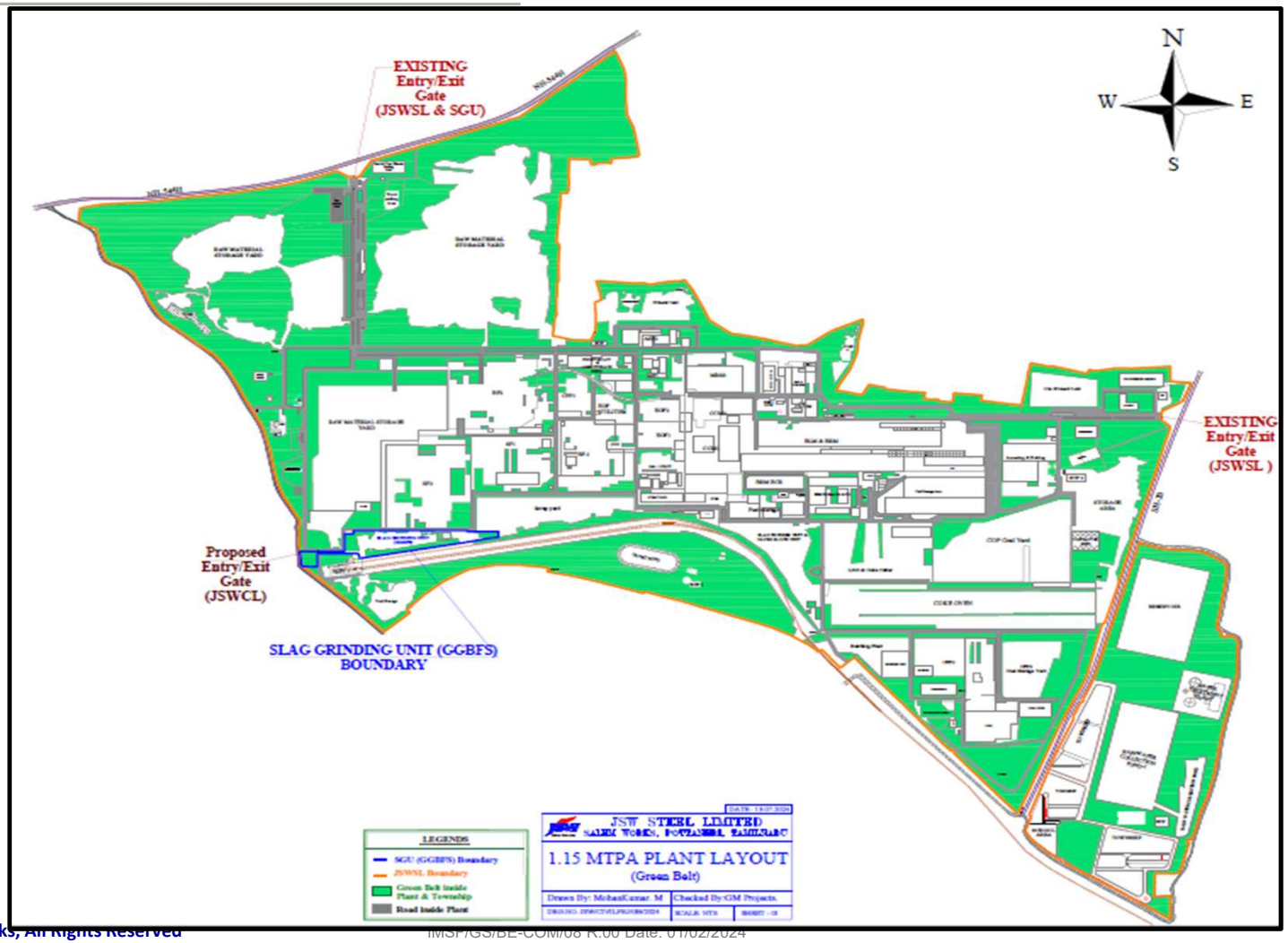
Ek Ped Maa ke Naam

Nursery

Plantation drive on WED 2024

WED celebration 2025

Greenbelt Layout



ANNEXURE 4

DETAILS OF APC MEASURES PROVIDED IN STEEL & CPPII

Annexure -4

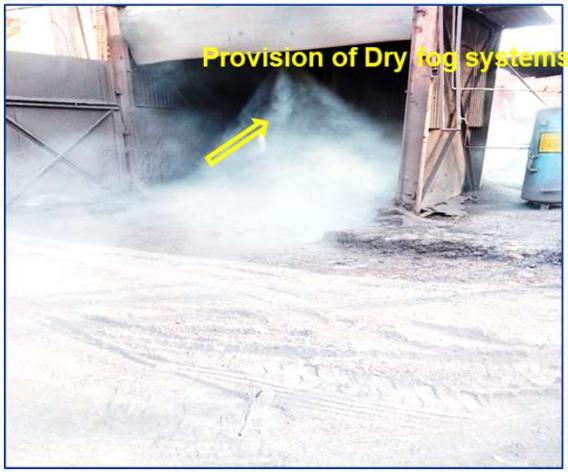
Details of Air Pollution Control measures provided in Steel & CPPII

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	BF#1 - Hot stove stack	Process	Stack
6	BF#1 - GCP flare stack (Emergency stack)	Non- Process	Venturi Scrubber with stack
7	BF#1 - Stock house dedusting	Non- Process	Bag Filters with stack
8	BF#1- Cast house dedusting system stack	Non- Process	Bag Filters with stack
9	Process Boilers (1 x 25 TPH & 1 X 8 TPH)	Process	Common Stack
10	EOF#1- Primary dedusting system stack	Process	Venturi Scrubber with stack
11	CCM#3 -Billet grinding machine stack	Non- Process	Bag Filters with stack
12	CCM#1 Steam exhaust system stack	Non- Process	Stack
13	EOF#2 - Primary dedusting system stack	Process	Venturi Scrubber with stack
14	EOF#1&2 - Secondary dedusting system stack	Non- Process	Bag Filter with stack
15	LRF#1 - Primary & LRF#1 to 4 secondary dedusting system stack	Non- Process	Bag Filter with stack
16	LRF#2,3,4 - Primary dedusting system stack	Process	Bag Filter with stack
17	Vacuum degassing boiler#1 & #2 stack	Process	Stack
18	CCM#2 Steam exhaust system stack #1 & #2	Non- Process	Stack
19	CCM#2 - Cut fumes exhaust system stack	Non- Process	Stack
20	BLM - Reheating furnace stack #1	Process	Stack
21	BLM - Reheating furnace stack #2	Process	Stack
22	Coke Quenching Tower	Non- Process	Grit Arrester stack
23	COP - Coke oven battery #1 emergency stack# 1A & 1B	Process	Stack
24	COP - Coke oven battery#2 emergency stack	Process	Stack
25	COP - Coke oven battery#3 emergency stack	Process	Stack
26	COP - Waste Heat Recovery Boiler # 1 stack	Process	Stack
27	COP - Waste Heat Recovery Boiler # 2 stack	Process	Stack
28	COP - Waste Heat Recovery Boiler # 3 stack	Process	Stack
29	COP - Waste Heat Recovery Boiler # 4 stack	Process	Stack
30	COP - Waste Heat Recovery Boiler # 5 stack	Process	Stack
31	BF Gas Fired Boiler	Process	Stack
32	Limekiln(Not in Operation)	Non- Process	Not in operation
33	BRM- Reheating furnace stack #1 & 2	Process	Stack
34	SP#2 - Sinter machine waste gas fan stack	Process	ESP with stack

Stack No	Stack attached to	Stack Type	Air Pollution Control Equipment (APC)
35	SP#2 - Dedusting and cooling system stack	Non- Process	ESP with stack
36	SP#2 - Crushing of fuel and raw materials dedusting stack	Non- Process	Bag Filters with stack
37	BF#2- Hot stove stack	Process	Stack
38	BF#2 - GCP flare stack (Emergency stack)	Non- Process	Bag Filters with stack
39	BF#2 - Stock house dedusting & RMH system stack	Non- Process	Bag Filters with stack
40	BF#2 - Cast house dedusting system stack	Non- Process	Bag Filters with stack
41	BF - Pulverised Coal Injection unit	Non- Process	Bag Filters with stack
42	COP-DG Set -625 KVA Stack	Non- Process	Acoustic enclosures with Stack
43	EOF#1 - DG Set -625 KVA stack	Non- Process	Acoustic enclosures with Stack
44	EOF#1 - DG Set -625 KVA stack	Non- Process	Acoustic enclosures with Stack
45	CCM#3 - Steam exhaust system stack #1	Non- Process	Stack
46	Process Boilers area - DG set -1250 KVA stack	Non- Process	Acoustic enclosures with 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	BF Slag Grinding mill stack	Non- Process	Bag Filters with stack
52	BF Slag Grinding unit-Sinter waste Gas- Emergency stack	Non- Process	Damper with vent stack
53	BF Slag Grinding unit- Hot Air Generator - Emergency stack	Non- Process	Damper with vent stack from HAG
54	CCM#1 -Billet grinding machine stack	Non- Process	Stack
55	CCM#2 -Billet grinding machine stack	Non- Process	Stack
56	EOF#2 - DG Set - 1250 KVA Stack	Non- Process -Emergency stack	Acoustic enclosures with stack
57	CCM#3 - DG Set - 1250 KVA stack	Non- Process -Emergency stack	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	BRM - DG set - 650 KVA - stack	Non- Process -Emergency stack	Acoustic enclosures with stack
61	Pickling plant - DG Set - 400 KVA - stack	Non- Process -Emergency stack	Acoustic enclosures with stack
62	Batching plant#1 Cement silo vent stack	Non- Process	Bag Filters with stack
63	Batching plant#2 Cement silo vent stack	Non- Process	Bag Filters with stack
64	COP - Coke cutter dedusting system stack	Non- Process	Bag Filters with stack
65	CCM#3 - Steam exhaust system stack #2	Non- Process	Stack
66	Coal fired boiler (127 T/HR)	Process	ESP with stack
67	Coal crusher house	Non- Process	Bag Filters with stack
68	Coal screening section	Non- Process	Bag Filters with stack
69	Raw material transfer and discharge point	Non- Process	Bag Filters with stack
70	Fly ash storage silo	Non- Process	Bag Filters with stack
71	Bottom ash storage silo	Non- Process	Bag Filters with stack
72	Diesel generator set – 500 KVA	Non- Process -Emergency stack	Stack
73	Diesel generator set – 275 KVA	Non- Process -Emergency stack	stack

Details of Air Pollution Control Devices (APCDs) installed

Fugitive Emission Control Measures



Fugitive Emission Control Measures in Internal Roads

Concrete road provision

Capacity: 5000 m^3/hr

Capacity: 5000 m^3/hr

Tyre Washing Unit at Main Gate

Fugitive Emission Control Measures

Water Sprinkler at BF yard

Water Sprinkler at Sinter Plant

Water Sprinkler at Coal yard

Fugitive Emission Control Measures

GI Sheets and Greenery development for dust barrier along the raw material storage yards

ANNEXURE 5

COMPLIANCE STATUS REPORT TO THE CREP CONDITIONS

Annexure 5

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

S.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 COP Non-recovery type coke oven and this requirement is not applicable.
2	**Steel Melting Shop** **Fugitive Emission Status** To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).	SMS comprises of an Energy Optimizing Furnace 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 dry scrubbing system comprising of bag filters, belt conveyors and dust silo. The dust is being collected and reused in the Sinter Plant. Dedicated secondary dedusting systems are installed in EOF & LRF and fugitive emissions are significantly reduced. Dedicated dust monitoirng 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 commissioned along with bag filter as an air pollution control measures (bag filter with stack) to reduce emission during direct injection. The rate of pulverised coal injection is increased (upto approx. 137 kg/THM) and the implementation resulted in reduction of coke consumption in BF which leads to energy saving.
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:** - 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).	All the Blast Furnace Slag is converted to Granulated slag and sold to cement industries. Flue dust from sinter plant, BF, SMS, sludge from BF & EOF and coke breeze from coke oven plant is re-used in sinter plant. Pellet plant is not installed in our operation. SMS slag is sent for metal recovery system and after crushing reused internal applications & sent cement industries. A ready mix concrete unit is installed. A unique initiative, Paver block unit by using crushed EOF slag. Refractories are selected to withstand high temperature whose shelf life is longer and generation of used refractories are lesser. The same will be recycled in downstream applications and also sold to customers involved with recycling and the disposal is in environment friendly manner. Our coke oven plant is non-recovery type and hence Tar sludge & ETP sludge 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.
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
6	Installation of continuous stack monitoring	There are 26 nos. of Process stacks. Dust & Gaseous emission monitoring systems are installed as per CTO condition and the real time data of SPM, SO2 & NOx 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 CTO condition and the real time data of SPM 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.

S.No	Condition	Compliance status/Action taken
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 equipments are being operated efficiently and proper records are maintained for running hours, failure time and efficiency. Any failure leads to APC is resulted exceedance alarm from TNPCB server and justification along with 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.
9	The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.	
	✔ Energy recovery of top blast furnace (BF) gas.	Our BF gas pressure (plant capacity is 0.683 MTPA only) is not adequate to install TRT.
	✔ Use of tar-free runner linings.	Our coke oven plant is non-recovery type and hence not applicable.
	✔ De-dusting of cast house at tap holes, runners, skimmers ladle and charging points.	The de-dusting system commissioned at BF-I & II cast house covering tap holes, runners, skimmers ladles and charging points.
	✔ Suppression of fugitive emissions using nitrogen gas or other inert gas.	Water sprinkling system, Dry & Wet fog systems and the compressed air are used for suppression of fugitive emissions.
	✔ 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.	Since we are purchasing raw materials from outside sources, it is not applicable.
	✔ Processing of the waste containing flux & ferrous wastes through waste recycling plant.	The waste containing flux & ferrous waste is utilized to the maximum extent possible in the sinter plant. 100 % of waste containing flux and ferrous is utilized in the plant.
	✔ To implement rainwater harvesting.	Four rain water harvesting ponds are provided. Two are in the plant premises and two are in township.
	✔ Reduction of green house gases by,	Various initiatives and measures are being taken to reduce the GHG emissions and present level of GHG emission is 2.73 MT of CO2/TCS. Major focus are being given to maximise the waste heat utilisation, Renewable energy and resource conservation.
	• Reduction in power consumption.	To reduce the power consumption VFDs are being installed whereever possible. LED lights are installed to replace the sodium vapor lamps and many Kaizens are implemented to conserve power.
	• Use of by-products gases for power generation.	By product BF gas is being used as fuel in Power Plant for power generation.
	• Promotion of energy optimization technology including energy audit.	All the upcoming projects are wetted to the best energy consumption through selection of equipments. Energy audit is being carried out and implementations are done in phased manner to minimize the energy consumption of GCal.
	• To set targets for resource conservation such as raw material, energy and water consumption to match International Standards.	Raw material, Energy and water consumption targets are being fixed as a key performance indicator with reference to WSA guidelines and actions are being implemented to match the international standards through Best Available Technology.
	• 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.	A separate Environment cell is already available and full-fledged lab set up and need based training is being imparted to the monitoring personnels as and when required. Presently the monitoring and analysis being done through M/s Nawal Analytal Labs India Pvt Ltd.
	• To improve over all house keeping.	5S system is being followed to maintain and improve housekeeping throughout the plant. Due to the implementation, saving in area, inventory control, retrieval time period and standardization practices are well improved.

ANNEXURE 6

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

Online effluent monitoring report

I.Online effluent monitoring report

S.No	Description	UoM	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Effluent Inlet flow	m^3	85282.75	85593.75	73435.56	86119.25	79886.19	88365.00
2	Treated effluent water reuse in process	m^3	88994.75	90448.25	66609.31	81430.81	78225.88	89219.75
3	ETP outlet discharge flow	m^3	0	0	0	0	0	0

Note; Consented Trade efflunet generation 2935 KLD

II. Result of analysis of steel treated trade effluent by TNPCB									
S.No	Parameters	Unit	TNPCB Tolerance Limit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH at 25^{O}C	Number	5.5-9.0	7.15	7.31	8.51	7.34	7.95	7.42
2	TSS at 103^{O}C - at 105^{O}C	mg/L	100	4	8	8	8	4	8
3	Total Dissolved Solids at 180^{O}C	mg/L	2100	756	548	632	1444	940	1208
4	Chloride as Cl	mg/L	1000	210	100	50	540	310	375
5	Sulphate as SO_4	mg/L	1000	203	206	210	216	348	305
6	Oil & Grease	mg/L	10	<3	<1	<2	<2	<2	<2
7	BOD (at 27^{O}C for 3 days)	mg/L	30	4	4.8	2.8	6.1	2.8	3.6
8	COD	mg/L	250	64	56	56	64	56	32
9	Phenolic Compounds	mg/L	1	0.02	0.19	0.156	0.23	0.292	0.104
10	Ammonical nitrogen as NH_3. N	mg/L	50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cyanide	mg/L	0.2	0.56	0.56	0.56	1.12	0.56	1.12
12	Total Kjeldhal Nitrogen	mg/L	100	1.7	1.68	1.12	2.24	1.12	2.24
13	Sulphide	mg/L	2	<1	<1	<1	<1	<1	<1
14	Total Residual Chlorine	mg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	Dissolved Phosphate	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Hexavalent Chromium	mg/L	0.1	0.894	0.616	0.438	1.655	0.606	0.566
17	Total Chromium	mg/L	2	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
18	Fluoride as F	mg/L	2	0.683	0.6832	0.6832	1.3664	0.6832	1.366
19	Zinc	mg/L	1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
20	Lead	mg/L	0.1	<1	<1	<1	<1	<1	<1
21	Cadmium	mg/L	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	Nickel	mg/L	3	<0.01	<0.01	<0.01	<0.01	0.664	<0.01
23	Boron	mg/L	2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
24	Free Ammonia	mg/L	30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Mercury	mg/L		***	***	-	-	***	-
27	Arsenic	mg/L		***	***	-	-	***	-

III. Result of analysis of CPPII- treated trade effluent by TNPCB									
S.No	**Parameters**	**Unit**	**TNPCB Tolerance Limit**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**
1	pH at 25^{O}C	Number	5.5-9.0	6.68	6.98	7.00	7.29	6.89	7.17
2	TSS at 103^{O}C - at 105^{O}C	mg/L	100	8	8	8	4	4	4
3	Total Dissolved Solids at 180^{O}C	mg/L	2100	1352	1460	1512	1312	1884	1360
4	Chloride as Cl	mg/L	1000	345	350	320	340	320	285
5	Sulphate as SO_4	mg/L	1000	32	40	465	345	823	435
6	Oil & Grease	mg/L	10	<3	<1	<2	<2	<2	<2
7	BOD (at 27^{O}C for 3 days)	mg/L	30	5.6	<2	40.00	3.60	2.40	3.00
8	COD	mg/L	250	64	52	<2	56.00	56.00	40.00
9	Phenolic Compounds	mg/L	1	0.116	1.442	0.328	0.32	0.32	0.86
10	Ammonical nitrogen as NH_3. N	mg/L	50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cyanide	mg/L	0.2	1.12	0.56	0.56	0.56	0.56	1.12
12	Total Kjeldhal Nitrogen	mg/L	100	1.68	1.12	1.12	1.12	1.12	2.24
13	Sulphide	mg/L	2	<1	<1	<1	<1	<1	<1
14	Total Residual Chlorine	mg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	Dissolved Phosphate	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Hexavalent Chromium	mg/L	0.1	0.955	0.227	0.472	1.177	0.57	0.65
17	Total Chromium	mg/L	2	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
18	Fluoride as F	mg/L	2	1.3664	0.683	0.683	0.6832	0.6832	1.366
19	Zinc	mg/L	1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
20	Lead	mg/L	0.1	<1	<1	<1	<1	<1	<1
21	Cadmium	mg/L	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	Nickel	mg/L	3	<0.01	<0.01	<0.01	<0.01	0.612	<0.01
23	Boron	mg/L	2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
24	Free Ammonia	mg/L	30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Mercury	mg/L		***	***	***	-	***	-
27	Arsenic	mg/L		***	***	***	-	***	-

IV. Treated trade effluent of CPPII-Cooling tower water by NABL accredited laboratory									
S. No	PARAMETER	UNITS	TNPCB Tolerance Limit	TRADE EFFULENT CPP-II 2 x 30 MW & 1x 30 MW					
				Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Temperature	°C	40	27	27	27	27	27	27
2	pH @ 250C	-	5.5 to 9.0	6.62	6.72	6.71	6.95	6.98	7.46
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	9	8	9	8	11	7
5	Total Dissolved Solids	mg/L	2100	1680	1668	1685	1592	1554	1980
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	174.12	168.24	172.6	139.07	162.15	218.11
8	Sulphide as S	mg/L	2	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.5]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]
9	Chloride as Cl	mg/L	1000	474.85	476.45	195.17	423.77	497.68	629.24
10	Fluoride as F	mg/L	2	0.41	0.38	0.41	0.39	0.39	0.52
11	Chemical Oxygen Demand	mg/L	250	59.98	51.82	49.39	44.35	43.86	31.5
12	BOD, 3 days @27°C	mg/L	30	12.09	10.95	10.2	9.07	8.89	8.16
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	0.57	0.54	0.59	0.54	0.51	0.75
15	Free Ammonia as NH3	mg/L	30	0.7	0.66	0.72	0.66	0.62	0.92
16	Total Kjeldahl Nitrogen	mg/L	100	7.39	7.18	8.04	7.75	7.64	7.14
17	Dissolved Phosphate as PO4	mg/L	5	0.12	0.14	0.16	0.15	0.15	0.11
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]
32	Alpha emitters*	µCi.ml^-1		BDL	-	-	BDL	-	-
33	Beta emitters*	µCi.ml^-1		BDL	-	-	BDL	-	-

V. Treated trade effluent of Steel Guard bond water by NABL accredited laboratory

S.No	Parameter	Unit	TNPCB Tolerance Limit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	Temperature	°C	40	27	27	27	27	27	27
2	pH @ 250C	-	5.5 to 9.0	7.37	7.29	7.16	7.25	7.14	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	1129	1142	1129	1089	1101	1696
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	112.46	117.24	108.26	98.12	104.07	187.31
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	309.9	327.56	336.92	305.51	330.15	548.7
10	Fluoride as F	mg/L	2	0.38	0.33	0.31	0.29	0.32	0.33
11	Chemical Oxygen Demand	mg/L	250	33.7	38.61	36.29	33.26	31.62	36.58
12	BOD, 3 days @27°C	mg/L	30	7.05	8.96	8.16	9.07	8.89	8.16
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	0.72	0.55	0.62	0.58	0.61	0.65
15	Free Ammonia as NH3	mg/L	30	0.88	0.67	0.75	0.71	0.75	0.79
16	Total Kjeldahl Nitrogen	mg/L	100	7.96	8.72	12.05	10.74	9.83	13.14
17	Dissolved Phosphate as PO4	mg/L	5	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	0.12	0.11	0.13	0.15
18	Phenolics 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]

VI. Result of analysis of ground water by TNPCB													
S.No.	**Parameters**	**Unit**	**OPEN WELL - Tmt.Kaliammal teacher, Pottaneri**	**GOVT. Bore well , Kavundanoor**	**Mr. 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**
1	Conductivity at 25° C	µmhos/cm	3780	2060	3530	1967	1936	4570	3510	3270	2910	3440	2240
2	pH at 25° C	Number	6.36	7.34	7.51	7.28	7.58	7.13	7.37	7.36	7.26	7.43	8
3	Total Dissolved Solids at 180° C	mg/L	2496	1400	2436	1356	1336	3152	2420	2256	2004	2372	1560
4	Chloride as Cl	mg/L	510	300	625	250	280	700	470	580	520	510	240
5	Sulphate as SO4	mg/L	410	350	530	300	320	750	560	500	400	440	380
6	BOD (at 27° C for 3 days	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
7	COD	mg/L	48	40	48	40	48	32	40	40	32	56	48
8	Fluoride as F	mg/L	0.483	0.427	0.466	0.455	0.427	0.433	0.322	0.388	0.333	0.527	0.533
9	Total Hardness as CaCO3	mg/L	1540	480	680	590	480	990	650	660	670	930	760
10	Alkalinity CaCO3	mg/L	16	16	100	68	60	100	112	80	32	84	64
11	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
12	Calcium as Ca	mg/L	305	120	104	104	104	168	100	112	132	277	120
13	Magnesium as Mg	mg/L	190	44	102	80	53	139	97	92	83	58	112
14	Sodium as Na	mg/L	281	179	386	175	192	480	320	397	276	125	156
15	Potassium as K	mg/L	16	12	12	10	12	20	11	10	25	46	36

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

S.No	PARAMETERS	UNIT	Oct-24				Nov-24				Dec-24			
			Govt Bore Well Water - Moorthipatti	Open Well Water - Mr. Balan, Pudur Panakadu	Open Well Water - Mr. Rajamani, Kuttapatti Pudur	Open Well Water - Venkatesan Pottaneri House	Open Well Water- Vallayen House Moorthipatti	Govt Borewell Water - Parry Nagar	Mr. Selvam Borewell Water - Karapaatti Pallam	Govt Borewell Water Kuttapatti Pudur	Govt Boreweel Water - Ervadi Village	Open Well Water -Mrs. Kallammal Teacher House	Open Well Water -Mr. Rajamani, Kuttapatti Pudur	Govt Borewell Water - Kavundanoor
1	Temperature	°C	27	27	27	27	27	27	27	27	27	27	27	27
2	pH @25°C	-	6.81	7.86	7.22	8.15	6.91	7.51	7.81	6.75	7.54	7.67	7.58	7.12
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]	7	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	2186.35	2216	1980	1766	2169	1692	2025	2217	2218	1884	2390	2155
6	Free Residual Chlorine	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]
7	Sulphate as SO4	mg/L	112.71	225.16	220	168.41	102.45	161	228	231.41	214.17	202.15	235.16	226.55
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	434.87	699.78	639.8	469.85	416.89	481.41	639.8	729.77	638.1	597.26	740.2	643.2
10	Fluoride as F	mg/L	0.18	0.45	0.62	BLQ[LOQ-0.02]	0.16	0.42	0.81	0.34	0.51	0.45	0.65	0.49
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]	BLQ[LOQ-4.0]
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]	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]	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]
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]	BLQ[LOQ-0.25]
16	Total Kjeldahl Nitrogen	mg/L	2.56	7.39	7.67	7.1	3.1	5.12	BLQ[LOQ-1.0]	BLQ[LOQ-1.0]	6.89	6.31	8.32	6.89
17	Dissolved Phosphate as PO4	mg/L	BLQ[LOQ-0.05]	0.12	0.12	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	0.24	BLQ[LOQ-0.05]	0.15	BLQ[LOQ-0.05]
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]

Annexure 5. Result of analysis of ground water by NABL accredited laboratory

S.No	PARAMETERS	UNIT	Jan-25				Feb-25				Mar-25			
			Govt Bore Well Water - Moorthipatti	Open Well Water - Mr. Balan, Pudur Panakadu	Mr. Selvam Bore Well Karapaatti Pallam	Open Well Water - Venkatesan Pottaneri House	Govt Borewell Water - Parry Nagar	Open Well Water -Mrs. Kaliyammal Teacher House	Open Well Water - Mr. Rajamani, Kuttapatti Pudur	Govt Borewell Water Kuttapatti Pudur	Govt Borewell Water Kuttapatti Pudur	Open Well Water- Vallayen House Moorthipatti	Govt Boreweel 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	-	7.52	6.74	7.76	7.85	7.64	6.81	7.55	6.88	8.13	7.24	6.54	6.84
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	1348	2232	2294	1650	1334	2126	2180	2350	2477	1236	2415	2702
6	Free Residual Chlorine	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]
7	Sulphate as SO4	mg/L	130.72	234.15	236.25	178.11	132.51	226.27	241.12	251.62	268.1	128.41	244.15	303.16
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	394.2	714.49	675.07	502.61	384.35	684.93	714.49	763.77	845.7	412.78	769.2	911.14
10	Fluoride as F	mg/L	0.42	0.62	0.74	0.46	0.24	0.58	0.62	0.32	0.51	0.26	0.46	0.31
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]	33.53
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]	9.18
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]	0.64
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]	0.78
16	Total Kjeldahl Nitrogen	mg/L	5.37	8.65	BLQ[LOQ-1.0]	4.77	5.73	7.1	7.92	BLQ[LOQ-1.0]	7.14	8.57	4.28	26.85
17	Dissolved Phosphate as PO4	mg/L	BLQ[LOQ-0.05]	0.18	BLQ[LOQ-0.05]	0.13	BLQ[LOQ-0.05]	0.14	0.13	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	BLQ[LOQ-0.05]	0.17
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]

ANNEXURE – 7

TREATED SEWAGE QUALITY MONITORING REPORT OF TNPCB & NABL ACCREDITED LAB

Treated sewage quality monitoring report of TNPCB & NABL accredited laboratory for the period of Oct 24 to Mar '25.)

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

S.No	Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	Number	7.44	7.67	7.31	7.86	7.3	7.44
2	TSS at 103°C - 105°C	mg/l	4	4	4	4	4	4
3	BOD (at 27°C for 3 days)	mg/l	5.4	<2	3.4	3.4	3	10

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

S.No	Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @ 25°C	Number	7.56	7.59	7.38	7.9	7.51	7.56
2	TSS at 103°C - 105°C	mg/l	4	4	4	4	8	4
3	BOD (at 27°C for 3 days)	mg/l	4.8	3	3.4	3.9	3.5	4.2

Result of analysis of treated sewage by NABL accredited laboratory (Plant STP)

S.No	Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	PH 25 C	--	7.25	7.2	7.62	7.31	7.36	7.41
2	Total Suspended Solids	mg/l	6	7	7	6	7	8
3	Total Dissolved Solids	mg/l	7.05	8.96	8.16	8.06	9.88	9.18

Result of analysis of treated sewage by NABL accredited laboratory (Township STP)

S.No	Parameter	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	PH @ 25oC	--	7.21	7.24	7.29	7.37	7.37	7.84
2	Total Suspended Solids	mg/l	11	8	7	8	8	7
3	Total Dissolved Solids	mg/l	7.05	8.96	7.14	9.07	9.07	9.18

ANNEXURE – 8
AMBIENT NOISE LEVEL MONITORING REPORT OF NABL ACCREDITED LABORATORY

Ambient Noise level monitoring report of TNPCB & NABL accredited laboratory for the period of Oct 24 to Mar ’25

I. Ambient Noise Monitoring results (Oct 24 to Mar ’25)

S.No	Location	L_{eq}	L_{max}	L_{min}	L10	L50	L90
1	New Land area JSW Boundary	54.7	61.1	50	56	53.9	50.3
2	Open field – Near thangamapuri stores, Malamanoor.	52.7	59.5	51.1	67.7	58.9	52
3	Nearby Mr.Chinnamuthu House, Malamanoor.	52.6	61.5	49.5	67	55.1	51.7
4	NearMadhayen Temple at Coconut Farm.	50.9	53.6	49.4	66.5	53.7	50.7
5	Eastern Gate of JSW.	54.6	59.8	52.1	66.1	54	50.4
6	In front of Occupational in Health Centre.	46	55.2	41.1	65.1	53	48.2
7	Near Pickling & Phosphating Plant 2 KLD ETP	52.9	60.5	47.8	65.5	53.4	50.2
8	Reservoir Premises.	51.3	52.2	50.1	51.9	51.2	50.5
9	Near Bhavani Guest House.	51.5	59.4	47.4	55	50.4	48.1
10	Executive Staff Quarters, JSW.	46.3	55.5	43.2	48.6	45.5	43.7
11	Nearby Railway Crossing kuttappatti village.	48.5	52.6	46	51.5	47.4	46.4
12	Near Thiru. Santhanam House, Earvadi Village.	54.6	64.9	47.6	56.1	52.7	52.2
13	At Coconut Farm, Nearby Railway crossing.	54.1	70.5	46.8	56.1	51	47.1
14	At Parrynagar JSW Boundary	52.3	60	48.1	55.2	50.6	49.1
15	Nearby Over Head Tank JSW Boundary	49.8	52.2	48.5	50.7	49.4	48.9
16	Open Agricultural field. West Compound Wall	52.4	61.5	50	53.6	50.9	50.3
17	Nearby Compound Wall opposite to Kaveri Guest House Premises	51.7	58.3	48.3	53.7	49.5	48.8
18	Open Field, Pottaneri Village.	54.8	63.9	45	59.2	56.2	46.3
19	Nearby Compound Wall opposite to Raw Material Storage Yard (Iron Ore).	54.8	67.1	47.1	60	50.6	47.7

Ambient Noise level monitoring report of NABL accredited laboratory for the period of Oct 24 to Mar '25

I. Ambient Noise Monitoring results (Oct 24 to Mar '25)

S.No	Location	Day Time Noise Level in dB(A)									
		Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Maximum	Minimum	Average	STD Deviation
1	New Land area JSW Boundary	58.4	59.1	58.2	66.6	67.1	65.9	67.1	58.2	62.6	4.4
2	Open field – Near thangamapuri stores, Malamanoor.	56.1	55.8	53.6	52.9	55.6	56.2	56.2	52.9	55.0	1.4
3	Nearby Mr.Chinnamuthu House, Malamanoor.	54.2	55	51.9	64.6	65.9	66.1	66.1	51.9	59.6	6.6
4	NearMadhayen Temple at Coconut Farm.	52.1	47.5	49.5	66.3	67.9	64.3	67.9	47.5	57.9	9.2
5	Eastern Gate of JSW.	55.9	56.4	51.1	61.9	63.4	68.2	68.2	51.1	59.5	6.2
6	In front of Occupational in Health Centre.	58.4	59	58.3	54.1	56.9	58.3	59.0	54.1	57.5	1.8
7	Near Pickling & Phosphating Plant 2 KLD ETP	60.1	61.2	59.8	56.7	58.2	58.6	61.2	56.7	59.1	1.6
8	Reservoir Premises.	53.6	53.9	51.9	60.8	61.6	59.7	61.6	51.9	56.9	4.2
9	Near Bhavani Guest House.	53.4	54.2	53.4	56.7	58	59.2	59.2	53.4	55.8	2.5
10	Executive Staff Quarters, JSW.	51.7	52.1	50.7	49.7	46.9	47.4	52.1	46.9	49.8	2.2
11	Nearby Railway Crossing kuttappatti village.	47.5	53.4	54.8	54.7	53.5	52.2	54.8	47.5	52.7	2.7
12	Near Thiru. Santhanam House, Earvadi Village.	50.3	51.2	49.6	48.2	46.9	47.1	51.2	46.9	48.9	1.8
13	At Coconut Farm, Nearby Railway crossing.	52.5	53	51.4	50.6	51.7	50.6	53.0	50.6	51.6	1.0
14	At Parrynagar JSW Boundary	57.2	57.9	57.3	54.7	53.1	54.4	57.9	53.1	55.8	2.0
15	Nearby Over Head Tank JSW Boundary	52.9	52.3	49.8	46.4	45.4	46.9	52.9	45.4	49.0	3.2
16	Open Agricultural field. West Compound Wall	52.9	53.3	52.5	50.2	51.2	53.2	53.3	50.2	52.2	1.2
17	Nearby Compound Wall opposite to Kaveri Guest House Premises	58.4	57.8	46.7	45.9	46.8	47.8	58.4	45.9	50.6	5.9
18	Open Field, Pottaneri Village.	55.9	42.2	54.3	53.7	55.3	54.4	55.9	42.2	52.6	5.2
19	Nearby Compound Wall opposite to Raw Material Storage Yard (Iron Ore).	58.2	58.8	56.1	55.1	51.7	52.1	58.8	51.7	55.3	3.0

S.No	Location	Night Time Noise Level in dB(A)									
		Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Maximum	Minimum	Average	STD Deviation
1	New Land area JSW Boundary	51.9	52.5	51.2	50.2	51.3	50.8	52.5	50.2	51.3	0.8
2	Open field – Near thangamapuri stores, Malamanoor.	48.5	47.9	45.5	44.9	43.6	44.1	48.5	43.6	45.8	2.0
3	Nearby Mr.Chinnamuthu House, Malamanoor.	43.4	44.1	43.1	46.7	44.2	43.6	46.7	43.1	44.2	1.3
4	NearMadhayen Temple at Coconut Farm.	41.9	41.5	42.8	49.1	47.5	46.5	49.1	41.5	44.9	3.2
5	Eastern Gate of JSW.	49.8	50.2	48	50.5	51.7	52.9	52.9	48.0	50.5	1.7
6	In front of Occupational in Health Centre.	52.4	51.8	49.5	45.3	43.9	44.5	52.4	43.9	47.9	3.8
7	Near Pickling & Phosphating Plant 2 KLD ETP	50.9	52.5	48.1	46.5	47.5	45.1	52.5	45.1	48.4	2.8
8	Reservoir Premises.	47.2	46.4	44.2	42.1	43.1	44.4	47.2	42.1	44.6	1.9
9	Near Bhavani Guest House.	41.8	42.3	41.5	40.9	41.9	40.9	42.3	40.9	41.6	0.6
10	Executive Staff Quarters, JSW.	43.8	42.5	42.5	40.5	43.5	41.2	43.8	40.5	42.3	1.3
11	Nearby Railway Crossing kuttappatti village.	42.4	43.3	42.1	43.9	44.7	43.6	44.7	42.1	43.3	1.0
12	Near Thiru. Santhanam House, Earvadi Village.	43.2	44.1	40.8	41.4	43.2	43.8	44.1	40.8	42.8	1.3
13	At Coconut Farm, Nearby Railway crossing.	42.7	41.9	42.3	43.2	45.8	44.1	45.8	41.9	43.3	1.4
14	At Parrynagar JSW Boundary	50.5	51	50.7	51.9	52.4	54.5	54.5	50.5	51.8	1.5
15	Nearby Over Head Tank JSW Boundary	44.6	43.8	41.5	42.3	44.1	43.4	44.6	41.5	43.3	1.2
16	Open Agricultural field. West Compound Wall	47	48.2	47.1	46.5	47.9	45.5	48.2	45.5	47.0	1.0
17	Nearby Compound Wall opposite to Kaveri Guest House Premises	50.1	53.7	40.2	40	40.5	42	53.7	40.0	44.4	5.9
18	Open Field, Pottaneri Village.	43.5	41.1	45.2	44.1	46.8	41.1	46.8	41.1	43.6	2.3
19	Nearby Compound Wall opposite to Raw Material Storage Yard (Iron Ore).	43.9	43.4	42.1	43.8	44.4	43.9	44.4	42.1	43.6	0.8

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.

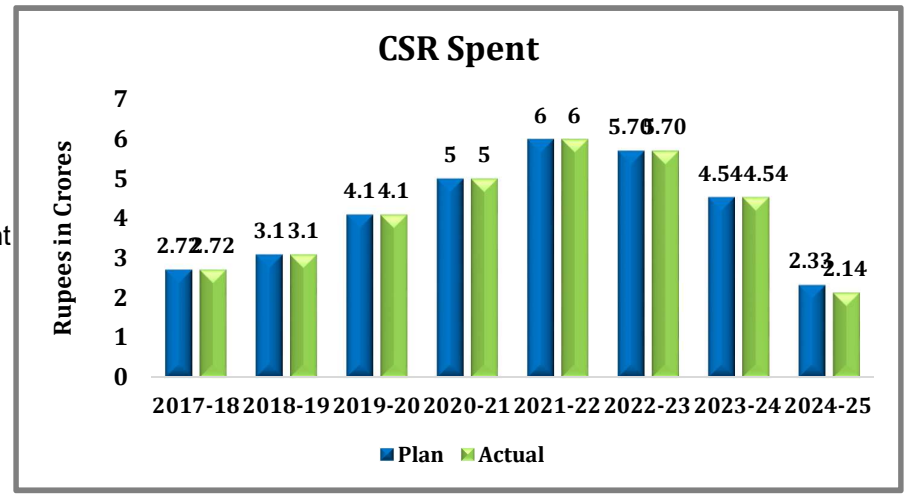
ANNEXURE 9

REPORT ON CSR & ESC ACTIVITIES

CSR REPORT FOR THE PERIOD OF OCTOBER 2024 TO MARCH 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 Livlihood
- Rural Infrastructure Development



People in Pottaneri, M.Kalipatti, Kuttapatti, Viruthasampatti, Gonur Panchayats and Mecheri Town are covered under our CSR projects. Our CSR spending for the financial year 2024-25 is Rs. 2.14 Crores.

VETERINARY CAMP:

A comprehensive veterinary camp was successfully conducted in Koppathanur village, located within the M.Kalipatti Panchayat. This initiative aimed to provide essential medical care to local livestock and pets, significantly benefiting the agricultural community in the area. During the camp, an impressive total of 354 cows, 22 calves, 126 goats, and 14 pet dogs received much-needed medical attention. This event underscores the importance of accessible veterinary services in rural areas, ultimately contributing to the economic stability and health of farming families in Koppathanur and beyond. The success of this camp serves as a model for future initiatives aimed at improving animal health and supporting local agriculture.

KITCHEN GARDEN:

The ASPIRE Team has successfully established two kitchen garden at government schools, created an engaging and educational initiative for students. These gardens focus on planting local and leafy vegetables, emphasizing the importance of organic cultivation practices. By utilizing organic methods, the initiative ensures that the students learn about healthy food production.

The students are considered the owners of the plantations. This hands-on approach encourages a sense of responsibility and pride among the students, encouraging them to take an active role in caring for the plants. Through daily maintenance activities, such as watering, weeding, and harvesting, students gain practical skills and knowledge about gardening, nutrition, and the environment. Overall, this initiative not only enhances the school environment but also empowers students with valuable life skills. And cultivated vegetables are used for Mid-Day-Meal.

TRANSFORMING THE BUS SHELTER:

The Kuttapatti bus shelter has recently undergone a remarkable transformation, the dedicated efforts of community volunteers. In a collaborative initiative, the shelter was cleaned and painted, creating a vibrant and welcoming space for local residents and travelers. This project not only enhances the aesthetic appeal of the bus shelter but also serves a greater purpose by promoting important social messages.

The volunteers took the opportunity to incorporate themes of children's rights and the importance of education into the artwork. By featuring inspiring messages through image related to education, the newly painted bus shelter becomes a visual reminder of the community's commitment to nurturing the future generation. These messages encourage passersby to reflect on the importance of providing every child with access to education, thereby fostering a culture of learning and empowerment.

AGRICULTURE – INCREASED SHAREHOLDER:

Farmer Producer Organization had shareholders of 1400 and found that there were no shareholders from Pottaneri panchayat. HIHI has conducted a general awareness meeting in communities, during the awareness session 52 members were participated in the meeting and 49 members became shareholders of our FPO.

SUCCESS STORY OF THE MONTH:

The renovation of Puthur 3 roads pond in M.Kalipatti Panchayat has renovated with a water storage capacity of 3500 m^3, the pond can now hold approximately 70 lakh liters of water annually. Due to the northeast monsoon, the pond is filled with 80% of water from its capacity. As a result, the surrounding community is reporting that one of the common wells (near the pond) has been filled with 75%. The well has been empty for the past 15 years, and it's only receives 15-20 % of its water during the rainy season. But after the pond renovation, the water level increased drastically by 75%

CHILDREN'S DAY CELEBRATION

On the occasion of Children's Day, we organized a special celebration at government schools in Mecheri to spread awareness about the rights of children. The event is aimed in educating both students and the community about the importance of safeguarding children's well-being and ensuring their access to education, safety, and protection. We took an additional step by pasting posters about the Child Helpline in various public places in Mecheri. to promote a safer environment for all children. This initiative aligns with our commitment to protecting the rights and welfare of every child in the area. Ensuring that everyone in the community knows where to turn in case of an emergency.

EYE CAMPS IN SURROUNDING VILLAGES:

We organized vision screening camps in nearby villages, aiming to help people with their eye health. In total, 20 camps were held, covering 30 different villages. During these camps, we were able to screen 2,670 people for eye problems. Through the screenings, we identified 129 people who needed single vision glasses, and 416 who required bifocal glasses. We also distributed 1,095 reading glasses directly at the camp, helping many individuals improve their vision on the spot. In addition to glasses, we found 311 people with cataracts. These individuals were referred to the local General Hospital (GH) for further treatment. The purpose of these camps was to provide essential eye care to those in need and help improve the quality of life for people in these communities. It was a successful initiative, and we are glad to have been able to support so many people.

DESILTED RAINWATER HARVESTING POND AT KUTTAPATTI:

A significant initiative has been undertaken to desilt and develop the rainwater harvesting pond at Kuttapatti, which is having transformative impact in local community. The pond, desilted to restore its capacity effectively to collect and store rainwater. This restoration has resulted in a rainwater harvesting capacity of 75,000 cubic meters of water per annum, a vital resource for the region, especially during dry periods.

The development of this pond is particularly beneficial to the surrounding agricultural land. Approximately 193 hectares of farmland in the area now receive direct benefits from the harvested rainwater. The availability of this water supports irrigation during times of water scarcity, significantly improving crop yields and helping farmers maintain their livelihoods. In a region where water resources are often limited, this pond plays a crucial role in sustaining agriculture and enhancing overall agricultural productivity. The restored pond has become a symbol of resilience and resourcefulness in Kuttapatti village, ensuring both agricultural prosperity and water security for the future.

AGRICULTURAL INITIATIVES: HAND IN HAND:

As part of our agricultural initiative to promote sustainable agriculture and environmental conservation, we distributed saplings to 58 farmers in the region, covering a total area of 9 hectares. Total of 1,320 saplings were distributed to farmers, aimed at enhancing the green cover and improving agricultural practices. The saplings distributed included a variety of species selected for their suitability to local soil and climate conditions, ensuring their successful growth and long-term benefits. This initiative not only contributes to reforestation but also supports the farmers by increasing biodiversity on their lands and improving soil health.

AGRICULTURAL INITIATIVES: KRISHI VIGYAN KENDRA (KVK):

Through our agriculture initiative, 21 country hen chicks were distributed to farmers for rearing, providing them with an opportunity to boost up their income through poultry farming. The farmers were given guidance to care for the chicks, which were raised over a period of 52 days. During this period, the farmers earned a daily income of Rs. 120, resulting in a total income of Rs. 6,240 per farmer. This intervention benefited a total of 21 farmers, helping them enhance their livelihoods and gain financial stability.

CENTER FOR ENVIRONMENT EDUCATION:

As part of CEE project, journals and badges were issued to the students of Mecheri Girls' and Boys' Schools to encourage their participation in environmental sustainability activities. One of the activity organized an energy audit conducted at the schools, where students actively participated in assessing the usage of electrical appliances within the school premises. The students were tasked with observing and recording how electricity was being used, identifying areas of wastage, and suggesting ways to improve energy efficiency. To create awareness among students about the importance of conserving energy and the impact of excessive energy consumption on the environment. A total of 150 students from three schools participated in the audit, contributing their observations and ideas.

ENVIRONMENT:

A total of 350 saplings were planted at the Sathapadi Panchayat office as part of an environmental initiative aimed at promoting green spaces and enhancing the local ecosystem. The plantation drive was organized with the active participation of community members, planted a diverse variety of saplings. The initiative not only aimed to beautify the area but also contributed to improving air quality. By involving the community, the drive raised awareness about the importance of trees and the role they play in preserving the environment for future generations.

CENTER FOR ENVIRONMENT EDUCATION:

Distributed learning materials and journals to schools and students, ensuring they had the necessary resources for their studies. Also gathered feedback and suggestions from schools about how their existing sanitation systems were being used. This helped identify areas that could be improved for a cleaner and healthier environment. In addition, Conducted awareness programs on waste segregation in six different schools. These programs aimed to teach students the importance of separating waste into recyclables, non-recyclables, and organic waste. By doing this, encourage students to be more mindful of their environmental impact and to practice proper waste management in their daily lives. Lastly, monitored students' daily food habits to ensure they were making healthier choices. This

initiative was part of a broader effort to improve the overall well-being of students by encouraging them to eat nutritious meals, stay active, and live a healthier lifestyle.

AGRI-LIVELIHOOD ACTIVITY

Integrated Pest Management (IPM) is being implemented across 200 farmers cultivating 65 acres of diverse crops, aiming to reduce the dependency on hazardous pesticides. This sustainable approach focuses on combining biological, cultural, mechanical, and chemical control methods to manage pest populations effectively while minimizing environmental impact. One of the key innovations in this program is the introduction of Insect Solar Traps. These traps utilize renewable solar energy to attract and capture harmful pests, reducing the need for chemical insecticides. By integrating these solar-powered traps, farmers can monitor pest activity in real time, allowing for targeted pest control interventions that are both effective and eco-friendly. This technology also empowers farmers to take proactive measures, minimizing crop damage and enhancing yields. Overall, the project fosters a healthier, more sustainable farming environment by promoting biodiversity and reducing the negative effects of pesticide use, benefiting both the farmers and the surrounding ecosystem.

AGRI-LIVELIHOOD ACTIVITY – WATER

In order to reduce waterlogging and salinity issues, the promotion of Rain Guns has significantly improved water use efficiency. Rain Guns distributed water more uniformly across crops, ensuring optimal coverage while minimizing wastage. This technology helps conserve water resources, crucial in areas facing water shortages, while also reducing the risk of waterlogging and salinity buildup in the soil. Additionally, the support provided to install Drip Irrigation systems has enhanced the efficiency of water usage, especially in areas with limited water supply. Drip Irrigation directly delivers water to the roots of plants, reducing evaporation and runoff, which not only improves crop productivity but also lowers production costs. As a result of these interventions, 9 acres of farmland are now benefiting from improved water management practices. A total of 25 farmers are reaping the rewards of these innovations, experiencing higher yields, reduced expenses, and more sustainable farming practices.

CENTER FOR ENVIRONMENT EDUCATION ACTIVITIES

Green Mela was conducted in 6 schools, where the students of Eco-clubs from 6 different schools showcased a variety of environmental projects they had worked on throughout the year. The event highlighted arrange of initiatives aimed at promoting environmental awareness among students. Some

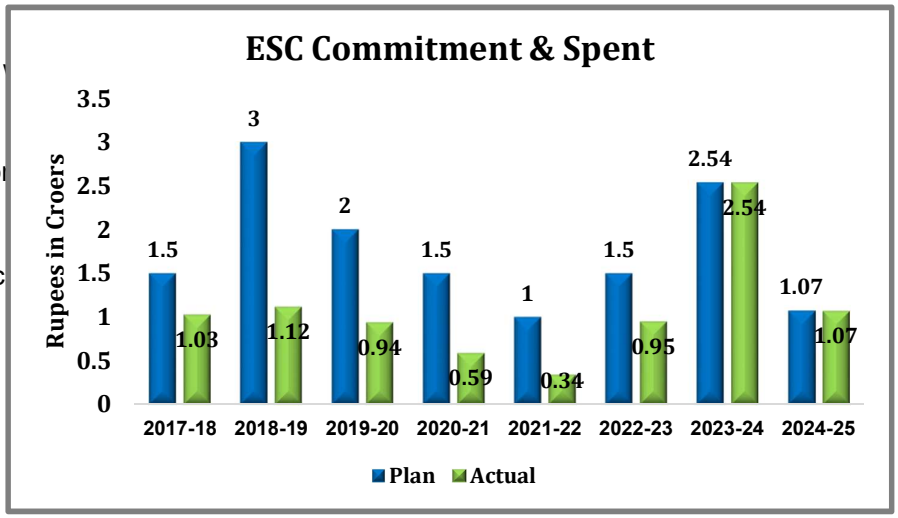
of the key projects included food diversification across three generations, which focused on incorporating diverse food practices. Additionally, students presented their work on composing and decomposing labs, where they learned about organic waste management and soil enrichment. Waste management projects were also a major focus, with students demonstrating ways to reduce, reuse, and recycle materials to minimize the environmental impact. The Green Mela also featured efforts related to school sanitation maintenance, emphasizing the importance of clean and healthy environment for both students and staff. Overall, the event served as a platform for students to share their achievements.

Sl.No	Activitiy	Committed in lakhs(INR) for FY 25	Spent in lakhs(INR) From April 24 to Sep 25	Spent in lakhs(INR) From Oct 24 to March 25	Spent in lakhs(INR) From April 24 to March 25	Remarks
1	Climate resilient Agri - KVK	19.99	19.99		19.99	Completed
2	Climate resilient Agri - FPC	50.00	37.99	12.00	49.99	Completed
3	JSW Aspire Project	47.99	24.50	23.49	48.00	Completed
4	JSW Green Schools	2.90	1.45	1.45	2.90	Completed
5	Program Support-Community Development	2.00	0.063	0	0.063	Completed
6	Increasing Green Cover	19.59	0	19.59	19.59	Completed
7	Developing Public Health Facility	29.65	0	12.82	12.82	Completed
8	Integrated Water Resource Management	27.95	0	27.61	27.61	Completed
9	Infra support to educational inst	34.33	0	32.95	32.95	Completed
Total		2.3	83.9	129.9	214	

ESC REPORT FOR THE PERIOD OF OCTOBER 2024 TO MARCH 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
- ✓ Sanitation facilities
- ✓ Road repair/constructio
- ✓ Health camps
- ✓ Education activities, etc



SAFETY AWARENESS

In an effort to promote safety and environmental awareness during the Diwali festival, pamphlets were distributed in schools and public spaces, focusing on the importance of safe firecracker use. Recognizing that Diwali is a time of celebration, it is equally crucial to ensure the safety of individuals and the surrounding community. The pamphlets provide essential information on the safe handling and bursting of crackers, emphasizing the need to follow guidelines that prevent accidents and injuries.

By distributing these materials in schools, we engage young minds and promote discussions about safety and responsibility. Students are encouraged to share this knowledge with their families, further amplifying the message. The outreach effort not only fosters a culture of safety during the festivities but also encourages a more conscious celebration that respects both personal safety and the environment. Through these pamphlets, we hope to inspire a joyful yet responsible Diwali experience for everyone.

SUPPORTED LUNCH TO SPECIAL CAMP:

Special camps were organized by the government in Mecheri Block to provide comprehensive support to differently-abled individuals in the Mecheri region. These camps aimed to cater to the diverse medical needs of the specially-abled population, with various medical services being offered. A range of medical professionals, including doctors, therapists, and specialists, were available to conduct health check-ups, provide treatments, and offer consultations on managing disabilities. In this camp 300 people participated. We have supported lunch to these participations.

SUPPORTED LUNCH TO SPECIAL CAMP

In celebration of the "International Day of Persons with Disabilities," a special sports event was organized in Salem to showcase the unique talents of physically challenged children. The event highlighted the abilities and achievements of these children, providing them with a platform to demonstrate their skills in various sports and activities. As part of this initiative, food support was provided to 1200 to ensure that the children and their families could participate without any concerns Corporate

SAFETY AWARENESS PROGRAMME

Organized road safety awareness program for both community members and school students at Viridhasampatti in observance of Safety Month. The event aimed to educate participants about the importance of following road safety rules to prevent accidents and ensure the safety of everyone on the road. We discussed key topics such as wearing seat belts, using helmets and obeying traffic signals. Interactive sessions were held to engage both adults and children, helping them understand their role in promoting road safety. The program was well-received, with participants committing to safer practices while traveling.

SOLAR STREET LIGHT INSTALLATION:

A solar street light was recently installed in Moorthipatti village, bringing significant benefits to the local community. This sustainable intervention has positively impacted around 150 families, providing much-needed lighting, especially during the night. Before the installation, the village used to face challenges due to poor visibility after sunset, making it difficult for residents to move around safely. Now, with the presence of solar-powered lighting, villagers are able to walk through the streets with greater ease and security. Children can study in a well-lit environment.

INAUGURATED SANITATION BLOCK

Inaugurated sanitation block at Government Model School, Kadayambatti. Total strength of the school is 547, the school Head Master, teachers and students were expressing their gratitude for our contribution of construction of toilet. Through our intervention promoting hygienic practices that are essential for good health and well-being of school students and addressed issues of open urination in the school. The school premises had only one toilet that too allotted for girls' by considering their safety. The establishment of a clean and accessible toilet facility encourages students to adopt responsible behaviors and reinforces the importance of maintaining cleanliness. Also contributing towards the protecting environmental pollution. Moreover, this project is aligned with broader governmental efforts to improve sanitation and public health, particularly in schools where children spend significant amounts of time. By investing in such infrastructure, the government is not only addressing immediate health concerns but also empowering future generations to prioritize hygiene and environmental stewardship.

Enterprise Social Commitment (ESC) commitment submitted during Environment Impact Assessment(EIA) Study 2017 to MoEF&CC is given in 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 till June 2020 is given in Table 3

Table 3: The actual amount spent on ESC till 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 22 – March 23		April 23 – March 24		April 24– Sep 24		Oct 24 to March 25		Total 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	0.25	0.08	0.43	0.43	0.125	0.125	0.009	0.009	0.644
2	Education	0.65	0.51	0.48	0.48	0.0083	0.0083	0.076	0.076	1.0743
3	Infrastructure Development	0.15	0.08	1.13	1.13	0.1122	0.1122	0.56	0.56	1.8822
4	Livelihood support	0.2	0	0.00	0.00	0.00	0.00	0	0	0
5	Others	0.25	0.28	0.5	0.5	0.0658	0.0658	0.122	0.122	0.9678
	Total in Crs	**1.5**	**0.95**	**2.54**	**2.54**	**0.31**	**0.31**	**0.76**	**0.76**	**4.56**
	ESC spent from 2017 onwards to till March 25: Rs. 8.58 Crores (3.68+0.34+4.56)									