Ref: SJCPL /ENV /2024-25 Dates: 06.09.2024

To,
The Environmental Engineer,
AP Pollution Control Board, Regional Office,
3rd Floor, Dr. YSR Paryavaran Bhavan,
Venkata Ramana colony,
Road No.2, Labour Colony,
Kurnool – 518 002.

Sub: - Submission of Environmental Statement Report in Form-V for Waste Heat Recovery Power Plant for the Financial Year 2023-2024 - reg

Dear Sir,

With reference to the above subject, please find enclosed herewith the Waste Heat Recovery Power Plant of Sree Jayajothi Cements Private Limited Environmental Statement in Form-V for the financial year ending 31st March 2024 as required under the Environment Protection Rules 1986.

This is for your kind information and records please.

Thanking you,

Yours faithfully,
For **Sree Jayajothi Cements Private Limited**

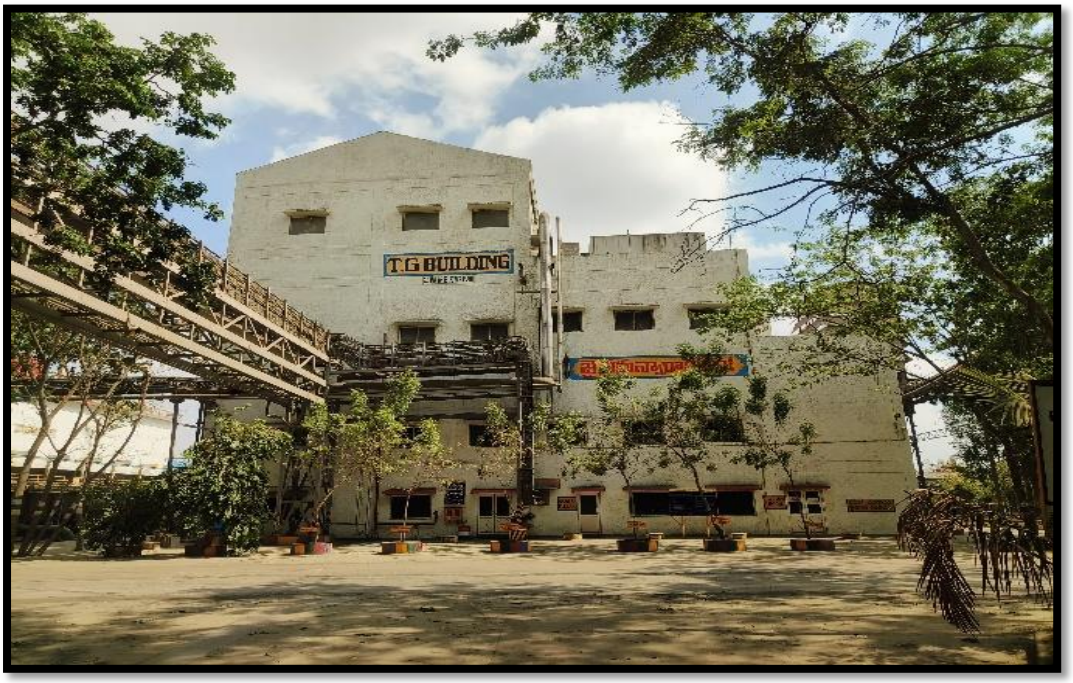
B. C. Gurivi Reddy
Sr. Vice President (Works)

CC To: **The Member Secretary,**
Andhra Pradesh Pollution Control Board,
Dr. YSR Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada-520007.

WASTE HEAT RECOVERY POWER PLANT

(7.5 MW)

ENVIRONMENTAL STATEMENT (FORM-V)
FINANCIAL YEAR 2023-2024



M/s. SREE JAYAJOTHI CEMENTS PRIVATE LIMITED

(AN ISO 9001:2015, 14001:2015, 50001:2018 & OHSAS 45001:2018 Certified Company)

Sri Nagar, Yanakandla Village, Banaganapalle (Mandal),

Nandyal (District), Andhra Pradesh – 518124

ENVIRONMENTAL STATEMENT FORM – V

(See rule 14)

Environmental Statement for the financial year ending 31st March 2024

PART – A

i) Name and address of the owner/
Occupier of the industry operation: **Sri. Chandra Shekhar Pandey**
Director - Operations
M/s. SREE JAYAJOTHI CEMENTS PRIVATE LIMITED
(WASTE HEAT RECOVER POWER PLANT)
Sri Nagar, Yanakandla Village,
Banaganapalle Mandal, Nandyal District,
Andhra Pradesh – 518 124.

Operation or Process

ii) Industry Category : Green Category

iii) Production capacity of units : 7.5 MW

iv) Date of last Environment statement submitted: 08.09.2023
(For the year 2022-2023)

PART B
WATER AND RAW MATERIAL CONSUMPTION

Water consumption (m^3/day) as per CFO

Process /Cooling : 1500 m^3/day

Domestic : -m^3/day

Total water Consumption for 2023-24: 2, 33,970 KL

Name of the products	Process water consumption per unit of products (KL/MWH)	
	During the current financial year (2022-2023)	During the current financial year (2023-2024)
Power Generation from waste heat recovery	5.29 KL/MWH	5.63 KL/MWH

2. Raw Material Consumption

Total generation for 2023-24: **4,15,63,100** Kwh

S.NO	Name of the Raw Material	Name of the Product	Consumption of Raw Material per unit of out put	
			During the current financial year (2022-2023)	**During the current financial year (2023-2024)**
1	Waste heat from exhaust gases	Electricity generation	Not applicable	Not applicable

PART C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged	Concentration of pollutants in discharge	Percentage of variation from prescribed standards with reasons
a)Water	Total waste water Generation for 2023-24 : **30679 KL** Treat water is used for Cement process	Attached as **Annexure -II**	
b)Air	Ambient Air quality Monitoring data attached as **Annexure-II**		

Note: No wastewater is discharged outside of factor premises. Treated wastewater is being utilized for, dust suppression and process utilization within cement plant premises.

PART - D
HAZARDOUS WASTE

(As specified under 1 [Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008)]/Management and handling Amendment Rules 2016)

No hazardous waste was generated from WHR Power plant in 2023-24

PART – E

SOLID WASTES

PART-F

PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF CONCENTRATION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATES DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES

PART-G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION.

PART-H

ADDITIONAL INVESTMENT FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION.

PART – I

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION

1. Continuous emission monitoring system (CEMS) connected to APPCB and CPCB servers.
2. We have installed Hazardous waste Liquid feeding Alternative feeding system.
3. We have installed Hazardous, Nonhazardous and other Solid waste feeding system.
4. CC roads have been laid to control fugitive dust emission. Photo attached as
5. Every Saturday we are conducting water savings and energy savings awareness Programme at our main gate
6. Weather protection covering sheds were provided at all raw materials conveying transfer points to control fugitive dust.
7. Wind shelter fencing of 8 m (24 fts) height is constructed all around the raw materials storage yards.
8. We have provided atomized water sprinklers in coal yard, slag yard for dust suppression
9. Road sweepers & vacuum cleaner is deployed and good housekeeping is being maintained for controlling secondary fugitive dust emissions
10. Concreted in different areas for controlling fugitive dust.
11. Hood coverings provided for all conveyor belts.
12. No effluent is generated and discharged from our cement plant. Generated domestic wastewater is being treated in 300 KLD Sewage Treatment Plant. Treated water is being used for Green Belt Development in and around the plant
13. Maintaining speed-limit of vehicle @20 Km/Hr for controlling fugitive dust.
14. Success in efforts of ensuring accident free working conditions for workers.
15. Rain water harvesting structures are developed in around the plant. All the storm water connected to RWH structures.
16. Power generation of 7.0 MW with Waste Heat Recovery Power plant as part of sustainable development & for reducing carbon emissions.
17. Solar Power Plant was installed with a capacity of 11.2 MW
18. Sree Jayajothi Cements Private Limited has spent about Rs. **97,87,500** towards welfare & community development activities (CSR) in the nearby villages during the financial year 2023 -24

Environmental Campaign & Awareness:

Every year World Environment day is being celebrated in the year 2023 we have celebrated in Plant premises. On the occasion of world environment day, all employees and workers gathered in Plant. The environment pledge was being taken by all for environment conservation and continuous efforts to make a green and healthy environment.

Plantation was done during world environment day program 5th June 2023

Glimpses of World Environment Day – 2023 Celebration


SAVE
Save money
BRING YOUR OWN BAGS


WORLD ENVIRONMENT DAY
5th JUNE 2023
LIFE
LIFE

Annexure-II

AMBIENT AIR QUALITY MONITORING DATA (2023-24):

PM10 (μg/m3)	Apr'23	May'23	June'23	July'23	Aug'23	Sep-23
Cement Plant Main Gate	64.6	61.9	65.4	63.1	66.9	62.4
Near Colony	55.8	58.2	60.1	56.9	58.4	54.3
Near RO Plant	62.5	56.4	58.2	60.7	63.4	60.3
Near Packing Plant	68.4	71.2	68.3	66.8	69.5	66.8
PM10 (μg/m3)	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
Cement Plant Main Gate	64.1	66.3	62.94	64.3	60.4	62.8
Near Colony	51.7	55.4	53.71	57.12	54.6	52.8
Near RO Plant	62.4	60.4	58.32	61.7	63.2	68.3
Near Packing Plant	68.1	71.4	66.72	69.2	67.3	70.4
PM2.5 (μg/m3)	Apr'23	May'23	June'23	July'23	Aug'23	Sep-23
Cement Plant Main Gate	23.2	22.4	25.5	23.7	25.7	22.8
Near Colony	19.7	21.5	22.9	18.4	21.5	17.4
Near RO Plant	22.4	19.4	21.5	22.5	23.8	24.8
Near Packing Plant	25.7	28.4	26.9	25.6	27.6	26.7

PM2.5 (μg/m3)	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
Cement Plant Main Gate	23.9	25.7	23.53	24.1	22.9	23.7
Near Colony	19.5	21.9	19.82	22.16	20.2	18.5
Near RO Plant	22.9	23.7	21.7	23.5	25.4	26.2
Near Packing Plant	28.6	30.3	27.56	29.3	28.1	30.5

SO2 (μg/m3)	Apr'23	May'23	June'23	July'23	Aug'23	Sep-23
Cement Plant Main Gate	11.4	10.2	9.5	10.9	12.3	11.4
Near Colony	8.1	6.4	7.1	6.7	8.4	7.6
Near RO Plant	10.2	8.6	6.4	7.8	10.4	9.6
Near Packing Plant	13.2	12.5	11.7	12.3	13.2	10.4
SO2 (μg/m3)	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
Cement Plant Main Gate	10.7	12.4	10.63	8.4	9.3	11.3
Near Colony	6.2	5.8	6.4	7.25	5.8	6.4
Near RO Plant	8.3	10.6	9.43	11.3	8.4	9.2
Near Packing Plant	12.3	13.7	11.93	12.4	10.9	12.3

Nox (μg/m3)	Apr'23	May'23	June'23	July'23	Aug'23	Sep-23
Cement Plant Main Gate	23.1	21.8	19.3	22.8	24.8	25.6
Near Colony	19.2	16.3	18.5	16.2	18.7	19.2
Near RO Plant	20.8	18.3	16.3	17.4	22.5	20.7
Near Packing Plant	25.6	23.9	22.6	24.7	26.7	22.6

Nox (μg/m3)	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
Cement Plant Main Gate	21.5	23.8	21.95	19.29	20.6	22.6
Near Colony	16.8	15.5	16.96	17.64	15.2	16.8
Near RO Plant	17.2	20.4	18.84	22.4	19.6	21.5
Near Packing Plant	24.5	25.8	23.95	25.6	23.7	25.8

Stack Emission Monitoring Report: (2023-24)

Stack Name	Parameter	Apr'23	May'23	June'23	July'23	Aug'23	Sept'23
Kiln Stack	SPM	16.2	14.8	15.9	17.2	14.4	16.2
	SO2	2.7	2.2	2.3	2.1	1.9	1.6
	NOx	224.6	232.4	225.1	221.6	216.5	208.3
Coal Mill Stack	SPM	12.4	11.5	13.4	10.5	12.8	13.9
Cooler Stack	SPM	18.5	17.4	16.8	18.3	17.2	15.5
Cement Mill Stack	SPM	14.3	13.5	12.3	14.7	16.4	14
Lime Stone Crusher Stack	SPM	21.9	19.4	20.5	22.4	23.8	21.7

Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Average
15.4	17.1	19.25	16.59	18.12	15.25	**16.37**
1.2	1.4	1.1	1.2	1.05	1.1	**1.65**
202.5	211.7	225.7	218.4	223.1	226.9	**219.73**
11.5	15.6	13.76	14.7	12.4	11.8	**12.86**
18.1	14.9	16.7	18.9	19.3	21.5	**17.76**
15.4	12.8	14.25	15.8	13.47	20.75	**14.81**
18.9	20.4	22.7	24.35	22.81	16.25	**21.26**

Greenbelt Development Photos

Greenbelt Development at Colony