ANDHRA CEMENTS LIMITED
Subsidiary of SAGAR CEMENTS LIMITED

ACL/Correspondence/24-25 **26.09.2024**

To,
The Environmental Engineer,
AP Pollution Control Board,
Regional Office,
Guntur.

Sub: Submission of Environment Statement of Andhra Cements Limited for the period April 2023 to March 2024 under Environment Protection rules, 1986.

Ref: Consent Order No. APPCB/VJA/GTR/10023/ HO/CTO/1984 dated 31.03.2023.

Dear Sir,

We are submitting herewith Cement plant Environment Statement for the period April 2023 to March 2024 of Andhra Cements Limited located at Srinagar Post, Dachepalli Mandal, Palnadu District, Andhra Pradesh.

This is for your kind information and office records please.

Thanking you

Yours faithfully,
For Andhra Cements Limited,

Ch Subba Rao
(Vice President - Works)

CC to:
1. The Joint Director, Ministry of Environment Forest and Climate Change, Regional Office, Vijayawada.
2. The Member Secretary, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520010.

ENIVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

(i)	Name and address of the owner/occupier of the industry operation or process	Mr Ch Subba Rao M/s. Andhra Cements Limited, Srinagar Post, Dachepalli Mandal, Palnadu District, A.P. 522414.
(ii)	Industry category- Primary (STC Code) Secondary (SIC Code)	Red category (Cement Manufacturing)
(iii)	Production capacity Units	Cement – 2.0 Million TPA Clinker – 2.31 Million TPA
(iv)	Year of establishment	1983
(v)	Date of the last Environmental Statement submitted	26.09.2023

PART-B

Water and Raw Material Consumption

(i) Water Consumption in m^3/d

Process: 169.49 m^3/d
Domestic:190 m^3/d

Name of Products	Process water consumption per unit of product output	
	During the previous Financial Year (April 2022 – March 2023)	During the current Financial year (April 2023 – March 2024)
Clinker	Plant is not in operation	0.029 m^3/MT
Cement	Plant is not in operation	0.0095 m^3/MT

(ii) Raw Material Consumption :

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (April 2022 – March 2023)	During the current financial year (April 2023 – March 2024)
Lime Stone	Clinker	Nil	1.422
Total Laterite		Nil	0.109
Total Coal*		Nil	0.134
Feldspar		Nil	0.002
Red mud		Nil	0.003
Limestone (P.I) in OPC	Cement	Nil	-
Total Gypsum		Nil	0.037
Fly Ash for PPC	PPC Cement	Nil	0.318

*Includes Pet coke & Coal

PART-C

Pollution discharged to environment /unit of output (Parameter as specified in the Consent issued) :

Pollutants	Quantity of pollutants discharged in kg/day*	Concentration of pollutants discharged (mg/l)	Percentage of variation from prescribed standard with reasons.
(a) Water Effluent Water: There is no effluent generation from Cement Manufacturing Process			
Domestic Sewage Treated Water: Details are mentioned as under			
pH	NA	8.11	Within the Std. limit
Oil & Grease	0.156	4	Within the Std. limit
Total suspended solids	0.975	25	Within the Std. limit
BOD	0.488	12.5	Within the Std. limit
Fecal coliform	NA	40	Within the Std. limit

Pollutants	Quantity of pollutants discharged in (Tons/day)	Concentration of pollutants discharged (mg/Nm^3)	Percentage of variation from prescribed standard with reasons.
(b) Air point Source emission			
Raw mill & Kiln			
PM	0.169	16.72	Within the Std. limit
SO_2	0.029	3.33	Within the Std. limit
NO_X	4.642	441	Within the Std. limit
Cooler			
PM	0.182	21.12	Within the Std. limit
Coal Mill			
PM	0.0334	16.37	Within the Std. limit
Cement Mill –I			
PM	0.0065	12.098	Within the Std. limit
Cement Mill –II			
PM	0.0046	10.885	Within the Std. limit

PART-D

Hazardous Wastes

[as specified under hazardous wastes (Management & Handling rules,1989)].

Hazardous Waste	Total Quantity (lts)	
	During the Previous financial year (April 2022 – March 2023)	During the current financial year (April 2023 – March 2024)
Used Oil	Plant is not in operation	Nil

PART-E
Solid Wastes

Solid Waste	Total Quantity	
	During the Previous financial year (April 2022 – March 2023)	During the Previous financial year (April 2023 – March 2024)
(a) From Process	Nil	Nil
(b) From Pollution control Facility	Dust collected in ESP; Baghouses & DE system is recycled back to the process	
(c) Quantity recycled or reused within the unit	Dust collected in ESP; Baghouses & DE system is recycled back to the process	

PART-F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous waste:

- No hazardous waste generated.

Solid Waste:

S No	Name of the waste	Waste Sold for recycle/reuse
1	Metal Scrap	1132.41 MT
2	PP scrap	4.90 MT
3	Refractory Bricks	1278.31 MT
4	General Scrap	4.74 MT

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- Stack Emissions were controlled by installation of Pollution control equipment's of ESP's and Baghouses, thus the materials collected in APCD's are recycled and used in process, thus conserving raw material, and reducing dust emissions.
- Utilization of low-grade limestone from mine is used for cement manufacturing process and thereby conserving the mineral and increasing the mine life.
- Fly ash will be used for manufacturing of Portland Pozzolona Cement. By using fly ash, limestone consumption per ton of cement manufacturing is reduced.
- Domestic effluent is being treated in sewage treatment plant and 100% re-used for greenbelt etc.
- Roof top rainwater recharge measures and rainwater harvesting pits have been constructed for collection and utilization of rainwater.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution/prevention of pollution.

- In the year 2023-2024, 538 native saplings as be planted as green belt development incurred an amount of Rs.319205/-.
- A STP of 30KLD established in cement plant.
- Installed VFD for cement mills cooling tower pump with CO_2 reduction of 255MT/year.
- Installed VFD for cement mill-2 vent separate fan with CO_2 reduction of 200MT/year.
- 11 rainwater harvesting pits were provided in Colony & Plant premises.
- Installed VFD for cement mill-1 vent fan with CO_2 reduction of 160MT/year.
- Installed VFD for cement mill-1 vent fan with CO_2 reduction of 160MT/year.
- Installed VFD for coal mill-1 fan with CO_2 reduction of 155MT/year.
- Replaced 2 no's of diesel loaders are with 2 no's of EV Loaders for unloading the raw materials.
- Provision of 2nd fly ash unloading point to avoid idle running hours of the compressor.
- Installation of dust settling chamber for reduction of thermal energy consumption and to reduce dust nuisance at PC bend area.
- Operation of VRPM in finished mode reduced power consumption.

PART-I

Any other particulars for improving the quality of the environment.

- Water tankers are in place to reduce dust emissions from roads.
- All the Raw materials are being stored in cover sheds & Silo. Belt conveyors are fully covered.

(Signature of a person carrying out an industry – operation or process)

Date: 26.09.2023