



# SAGAR CEMENTS (R) LIMITED

(A wholly owned subsidiary of SAGAR CEMENTS LIMITED)  
(formerly known as BMM CEMENTS LIMITED)

SCL/IMS/ENV/07

21.06.2023

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

**Sub:** Environment Statement of M/s Sagar Cements R Ltd for the period April 2022 to March 2023 under Environment Protection rules, 1986.

**Ref:** Consent Order No. APPCB/KNL/ATP/17731/HO/CFO/2020 dated 14.12.2020 & Expansion order dated 02.01.2023.

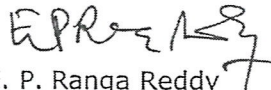
**Dear Sir,**

We are submitting herewith Environment Statement for the period April 2022 to March 2023 for Cement plant unit of M/s Sagar Cements (R) Limited located at Gudipadu village, Yadiki Mandal, Anantapuramu district in Andhra Pradesh.

This is for your kind information and office records please.

Thanking you

Yours faithfully,  
For Sagar Cements (R) Limited,

  
E. P. Ranga Reddy  
(Assist. Vice President - Works)

CC to:

1. The Deputy Director, Ministry of Environment Forest and Climate Change, Regional Office, Vijayawada.
2. The Member Secretary, Andhra Pradesh Pollution Control Board, D no 33-26-14 D/2, Near Sunrise hospital, Pushpa Hotel Centre, Chalamavari Street, Kasturibaipet, Vijayawada-520010



Registered Office: Plot No. 111, Road No.10, Jubilee Hills, Hyderabad - 500033.

Phone : +91-40-23351571, 23356572 Fax : +91-40-23356573 info-r@sagarcements.in www.sagarcements-r.in CIN: U40300TG2007PLC134320

Factory: Gudipadu Village and Post, Yadiki Mandal, Ananthapur District, Andhra Pradesh-515408, Phone: 08558-200272

## ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31<sup>st</sup> March

### PART-A

(i)	Name and address of the owner/occupier of the industry operation or process	Mr E Pandu Ranga Reddy M/s. Sagar Cements R Limited, Gudipadu (V) , Yadiki (M), Ananthapuramu (Dist) Andhra Pradesh - -515408
(ii)	Industry category- Primary- Secondary-	Red category Cement Clinker
(iii)	Production capacity Units	Cement – 1.35 Million TPA Clinker - 1.00 Million TPA
(iv)	Year of establishment	2008
(v)	Date of the last Environmental Statement submitted	26.09.2022

### PART-B

#### Water and Raw Material Consumption

##### (i) Water Consumption in m<sup>3</sup>/d

Process: Not Applicable (As plant is based on Dry Process technology)

Cooling: 204.67m<sup>3</sup>/day

Domestic (Industrial) : 21.96m<sup>3</sup>/day

Domestic (Colony): 105.89m<sup>3</sup>/day

Name of Products	Process water consumption per unit of product output	
	During the previous Financial Year (April 2021 – March 2022)	During the current Financial year (April 2022 – March 2023)
Cement	0.0358m <sup>3</sup> /Ton	0.0654m <sup>3</sup> /Ton

##### (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 2021 – March 2022)	During the current financial year (April 2022 – March 2023)
Lime Stone	Clinker	1.375	1.386
Bauxite		0	0
Total Laterite		0.073	0.085
Iron ore		0.026	0.031
Total Coal*		0.117	0.131
Red mud		0.009	0.000
Bed Ash		0.0002	0.0017

Dolomite	Clinker	0.003	0.001
Chrome Sludge		0.000	0.008
Blast Furnace Slag for PSC Cement	PSC Cement	0.521	0.489
Limestone (P.I) in OPC	OPC Cement	0.038	0.0418
Total Gypsum (received basis) for OPC		0.0481	0.0563
Fly Ash for PPC	PPC Cement	0.3365	0.3070

\*Includes Petcoke, Dolochar, Woodchips/powder and Hazardous waste

### 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.
<b>(a) Water</b>			
Effluent Water: There is no effluent generation from Cement Manufacturing Process			
Domestic Sewage Treated Water: Details are mentioned as under			
pH	NA	7.73	Within the limit
Oil & Grease	0.064	2.0	-80.00%
Total suspended solids	1.56	24.25	-98.84%
BOD	1.032	16.0	-46.66%
Fecal coliform	-NA-	261.25	Within the limit

Pollutants	Quantity of pollutants discharged in (Tons/day)	Concentration of pollutants discharged (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed standard with reasons.
<b>(b) Air point Source emission</b>			
<b>Raw mill &amp; Kiln</b>			
PM	0.134	17.59	-41.35%
SO <sub>2</sub>	0.0004	0.05	-99.94%
NO <sub>x</sub>	2.475	309.26	-61.34%
<b>Cooler</b>			
PM	0.098	19.82	-33.92%
<b>Coal Mill</b>			
PM	0.0064	17.52	-41.61%
<b>Cement Mill</b>			
PM	0.0111	15.85	-41.17%

\*Note: The kiln & cooler is operated for 322.23 days, coal mill is 284.15 days & Cement mill 301.68 days.



### PART-D

#### Hazardous Wastes

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

Hazardous Waste	Total Quantity (Its)	
	During the Previous financial year (April 2021 – March 2022)	During the current financial year (April 2022 – March 2023)
Used Oil	6358 litres	3390 litres
Waste containing residue (Grease)	2300 kgs	2880 kg

### PART-E

#### Solid Wastes

Solid Waste	Total Quantity	
	During the Previous financial year (April 2021 – March 2022)	During the Previous financial year (April 2022 – March 2023)
(a) From Process	Nil	Nil
(b) From Pollution control Facility	Dust collected in ESPs, Baghouses and DE systems are recycled back to the system	
(c) Quantity recycled or reused within the unit	Dust collected in ESPs, Baghouses and DE systems are recycled back to the system	

### 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:

- Cement Plant manufacturing is based on Dry Process technology. No Hazardous waste is generated from the process except used oil & waste grease which is generated from machineries and it is sent to authorize recycler/used in-house.
- The gross calorific value of used oil / grease is in range of 6000-7000 Kcal/kg and it consists of mainly Hydrocarbons.

Solid Waste:

The various wastes are generated from packaging, rejection of old, during replacement activities etc are given below:

S No	Name of the waste*	Qty sold to recycler / reuse / buy back
1	Plastic Bags & Plastic Wrappers	15.36 MT
2.	Lead Acid Batteries	1.09 MT
3.	Waste Tyre	4.59 MT
4.	Conveyor belt Scrap	36.09 MT
5.	Waste Refractory bricks	52.06 MT
6.	Metal Scrap	166.26 MT
7	Waste Bags from DE system	2.014 MT

\*The Solid waste details are generated from Cement Plant, CPP & Captive Mines.

## PART-G

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

M/s Sagar Cements (R) Ltd is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy.

- To emphasis on conservation of natural resources and to reduce the disposal problems of the waste from other units like Pharmaceuticals etc., a total 10254.16tons of hazardous waste is utilized in the year 2022-2023.
- Used Oil of quantity 3390 litres & waste grease of quantity 2340kgs consumed within the industry premise as lubricants to chains/coprocessing .
- The Colony domestic waste water is treated in a sewage treatment plant and treated used for green belt thus reducing the fresh water consumption required for green belt at colony.
- All pollution control equipment's are working with higher efficiency, the maximum portion of materials collected in APCD's are recycled and used in process, thus conserving raw material and reducing dust emission.
- Utilization of low grade limestone from mine is used for cement manufacturing process and thereby conserving the mineral and increasing the mine life.

## PART-H

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

- All main & internal roads are concreted to avoid fugitive emissions.
- Water sprinkling system provided at road side at both cement & power plant to reduce fugitive emissions.
- Green development is our ongoing process within our plant area. In the year 2022-2023 a total of 583 including Cement plant & colony area.
- During the financial year 2022-23, total cost of Rs.12552204/- spent for environment monitoring & protection measures for cement plant.

## PART-I

### **Any other particulars for improving the quality of the environment.**

- Periodic Monitoring of Stack emissions, Air and Water parameters
- Celebration of Environment Day for environment awareness among employees and contract workman within the plant premises.
- The company obtained IMS Certification (ISO 9001:2015, ISO14001:2015 & ISO 45001:2018, ISO 50001:2018)



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

Date: 21/6/23