



SAGAR CEMENTS (R) LIMITED

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

SCRL/IMS/ENV/07



26.09.2020

To
The Environment Engineer
AP Pollution Control Board,
Regional Office, Plot no-15
Door No 4-2-740-15
BLT Rajahamsa Villas, Tirumala Nagar,
Tapovanam, apt - 515004

Sub: Environment Statement of M/s Sagar Cements R Ltd for the period April 2019 to March 2020 under Environment Protection rules, 1986.

Ref: Consent Order No: APPCB/KNL/ATP/17731/CFO&HWM/HO/2015-913 dated 21.05.2015 and auto renewal dated 22.03.2016

Dear Sir,

We are submitting herewith Environment Statement for the period April 2019 to March 2020 for Captive Power plant unit of M/s Sagar Cements R Ltd 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
(AVP Works)

CC to:

1. The Additional Principal Chief Conservator of Forest (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), 1st and 2nd floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34
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

Ch. K. Sankar



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



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ENVIRONMENTAL 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 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 Captive Power Generation --
(iii)	Production capacity Units	25 MW Captive Power Plant
(iv)	Year of establishment	2008
(v)	Date of the last Environmental Statement submitted	27.09.2019

PART-B

Water and Raw Material Consumption

(i) Water Consumption in m³/d

Process: 64.65 m³/day

Cooling: 60.04 m³/day

Captive Power Plant	Process water consumption per unit of product output	
	During the previous Financial Year (April 2018 – March 2019)	During the current Financial year (April 2019 – March 2020)
Industrial (Process)	0.136m ³ /MWH	0.230m ³ /MWH
Industrial (Cooling)	0.175m ³ /MWH	0.214m ³ /MWH

(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 2018 – March 2019)	During the current financial year (April 2019 – March 2020)
Coal	Power Generation, MWH	0.69T/MWH	0.652T/MWH

PART-C

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

Pollutants	Quantity of pollutants discharged (mass/ day)	Concentration of pollutants discharged (mass/volume)	Percentage of variation from prescribed standard with reasons.
(a) Water	Zero Discharge	Waste water generated from RO Plant, Cooling tower blow down are collected in common pond, where neutralization takes place. The Treated water used for Dust Suppression / Green Belt. Domestic waste water generated from colony is treated in STP, treated water and sludge generated is used for greenbelt development. Quarterly analysis report of STP treated water is enclosed in annexure I	Nil
(b) Air	Reports are enclosed in annexure II.		Nil

PART-D

Hazardous Wastes

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

Hazardous Waste	Total Quantity (Its)	
	During the Previous financial year (April 2018 - March 2019)	During the current financial year (April 2019 - March 2020)
Waste Oil	300	300

PART-E

Solid Wastes

Solid Waste	Total Quantity	
	During the Previous financial year (April 2018 - March 2019)	During the Previous financial year (April 2019 - March 2020)
(a) From Process	Nil	Nil
(b) From Pollution control Facility	Dust collected in ESP is sent to existing cement plant	
(c) Quantity recycled or reused within the unit	Dust collected in ESP is sent to existing cement plant(captive)	

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 is generated from the process except used oil which is generated from machineries and it is sent to authorize recycler/used in-house.

Solid Waste:

- Battery wastes are sold to dealers on buy back basis.

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 captive power plant on environment friendly technology i.e. installed Air cool condenser instead of water cooled condenser and provided dry ash handling system. The stack emission is controlled by ESP. Bag filters installed at various points to mitigate the fugitive emissions generated from transfer points. The ash collected from the pollution control facility is used in the process of existing cement plant, thus 100% ash utilization is being taken place.

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.
- Green development is our ongoing process within our plant area and also plant boundary. In the year 2019-2020 a total of 122717 including Mines, Cement, Captive power plant and colony areas.
- A total of 8070 saplings planted under Miyawaki programme in an area of 0.5acre.

PART-I

Any other particulars for improving the quality of the environment.

- Monitoring of Stack emissions, Air and Water quality is being done regularly
- Celebration of Environment Day for environment awareness among employees and contract workman within the plant premises.
- To reduce the road dust emissions further, we have mobile water tanker and sweeping machine for regular cleaning of roads.
- The company obtained IMS Certification (ISO 9001:2015, ISO 14001:2015 & OSHAS 18001) effectively from 24.05.2016



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

Date: 26/09/2020



B.S. ENVI - TECH PVT. LTD.
ENVIRONMENTAL CONSULTANTS & ANALYTICAL LABORATORY

4th Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road,
 Tarnaka, Secunderabad - 500 017, Telangana, INDIA
 Ph. : +91 40 49723062 / 27016806 Fax : +91 40 49783063
 Email : info@bsenvitech.com Website : www.bsenvitech.com

TEST REPORT

WATER QUALITY DATA

Client : Sagar Cements (R) Limited
 (Formerly known as BMM Cements Limited),
Location : Gudlpadu(V), Yadiki(M), Anantapur(D), A.P.,
Season : Monsoon Season - 2019
Location Name : STP Water
Date of Sampling : 30.07.2019

S.No	Parameters	Results		GSR 422 (E) General Standards for Discharge of Effluents Inland Surface Water
		STP INLET	STP OUTLET	
1	Colour (Hazen Units)	Greyish	10	See Note-1
2	Odour	Dis-Agreeable	Agreeable	See Note-1
3	pH	6.82	7.48	5.5- 9.0
4	Oil & Grease, mg/l	8	2	10
5	Total Suspended Solids, mg/l	118	40	100
6	Total Dissolved Solids, mg/l	1005	965	2100
7	BOD for 3days at 270c, mg/l	110	15	30
8	COD mg/l	244	60	250
9	Chloride as Cl, mg/l	214	214	1000
10	Fluoride as F, mg/l	1.15	1.10	2.0
11	Dissolved Phosphate, mg/l	1.12	1.10	5.0
12	Percent Sodium,	56.9	55.6	---
13	Sulphide as S, mg/l	1.3	0.3	2.0
14	Boron as B, mg/l	0.24	0.20	2.0
15	Residual Sodium Carbonate	Nil	Nil	---
16	Sulphates as So4, mg/l	121	121	1000
17	Iron as Fe, mg/l	0.80	0.32	3.0

Note 1: All efforts should be made to remove colour and unpleasant odour as far as practicable

Authorized Signatory





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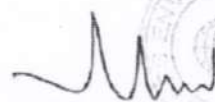

TEST REPORT

WATER QUALITY DATA

Client : Gudipadu Limestone Mine of BMM Cements Limited
Location : Gudipadu(V), Yadiki(M), Anantapur(D), A.P.,
Season : Post Monsoon Season - 2019
Location Name : STP Water
Date of Sampling : 22.11.2019

S.No	Parameters	Results		GSR 422 (E) General Standards for Discharge of Effluents Inland Surface Water
		STP INLET	STP OUTLET	
1	Colour (Hazen Units)	Greyish	10	See Note-1
2	Odour	Dis-Agreeable	Agreeable	See Note-1
3	pH	6.93	7.23	5.5- 9.0
4	Oil & Grease, mg/l	6	2	10
5	Total Suspended Solids, mg/l	250	75	100
6	Total Dissolved Solids, mg/l	1022	970	2100
7	BOD for 3days at 270c, mg/l	108	12	30
8	COD mg/l	240	40	250
9	Chloride as Cl, mg/l	220	205	1000
10	Fluoride as F, mg/l	1.18	1.02	2.0
11	Dissolved Phosphate, mg/l	2.5	1.10	5.0
12	Percent Sodium,	57.5	56.8	---
13	Sulphide as S, mg/l	1.2	0.2	2.0
14	Boron as B, mg/l	0.28	0.12	2.0
15	Residual Sodium Carbonate	Nil	Nil	---
16	Sulphates as So ₄ , mg/l	126	119	1000
17	Iron as Fe, mg/l	0.88	0.25	3.0

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TEST REPORT

WATER QUALITY DATA

Client : Gudipadu Limestone Mine of BMM Cements Limited,
Location : Gudipadu(V), Yadiki(M), Anantapur(D), A.P.,
Season : Winter Season - 2019-20
Location Name : STP Water
Date of Sampling : 28.02.2020

S.No	Parameters	Results		GSR 422 (E) General Standards for Discharge of Effluents Inland Surface Water
		STP INLET	STP OUTLET	
1	Colour (Hazen Units)	Greyish	10	See Note-1
2	Odour	Dis-Agreeable	Agreeable	See Note-1
3	pH	6.92	7.25	5.5- 9.0
4	Oil & Grease, mg/l	7	2	10
5	Total Suspended Solids, mg/l	200	50	100
6	Total Dissolved Solids, mg/l	1180	1140	2100
7	BOD for 3days at 270c, mg/l	124	14	30
8	COD mg/l	288	48	250
9	Chloride as Cl, mg/l	278	261	1000
10	Fluoride as F, mg/l	1.28	1.1	2.0
11	Dissolved Phosphate, mg/l	2.1	1.2	5.0
12	Percent Sodium,	59.1	57.0	---
13	Sulphide as S, mg/l	1.2	0.2	2.0
14	Boron as B, mg/l	0.32	0.28	2.0
15	Residual Sodium Carbonate	Nil	Nil	---
16	Sulphates as So4, mg/l	142	134	1000
17	Iron as Fe, mg/l	0.99	0.30	3.0

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AMBIENT AIR QUALITY REPORT

Parameter	UOM	April 19	May 19	June 19	July 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
Near Pump House													
PM ₁₀	µg/m ³	72	75	62	65	54	62	68	72	76	71	66	64
PM _{2.5}		38	42	32	36	28	34	37	38	40	38	34	32
SO ₂		10.8	10.6	10.2	11.8	11.2	11.8	12.8	11.4	12.4	13.4	14.8	13.4
NO ₂		11.8	11.5	11.4	11.5	12.5	12.6	15.9	12.6	14.6	15.8	16.2	15.6
Opposite to ESP													
PM ₁₀	µg/m ³	76	72	68	76	60	68	76	78	84	80	78	76
PM _{2.5}		44	46	34	32	30	37	48	46	44	42	38	36
SO ₂		10.5	10.4	10.4	10.3	10.5	11.2	13.5	12.6	15.8	16.8	18.2	16.2
NO ₂		12.4	12.6	12.6	11.2	11.7	13.5	16.6	14.8	18.2	18.6	21.6	18.4

cf. 14/1/20

Sagar Cement (R) Ltd
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STACK EMISSION REPORT

Location	Parameter	UOM	April 19	May 19	June 19	July 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
CPP	PM	mg/Nm ³	15.47	14.15	15.93	15.18	14.52	13.03	15.23	14.26	16.51	17.91	15.76	16.73
Stack	SO ₂		465	475	485	475	385	442	484	437	568	584	628	593.3
	NO _x		85	92	95	90.67	62	92	75	76.33	52	42	36	43.33

Standard: - PM: 50mg/Nm³; SO₂: 600mg/Nm³; NO_x: 300mg/Nm³

ch. k. sharma