



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2024-25/012

Date: 15.05.2024

To
The Environmental Engineer,
TSPCB, 8-15, I Floor,
Sri Laxmi Complex,
Sri Vinayaka Nagar, Hyderabad Road,
NALGONDA-508 001.

Dear Sir,


Sub: Submission of Environmental monitoring report - Reg.
Ref: TSPCB/220823352392/RO-NLG/HO/CFO /2023-957, dated:
09.10.2023

We are herewith submitting the in house Stack emission monitoring reports and third party AAQ monitoring, STP, WHRBPP and CPP water monitoring reports for the month of **April-2024** are enclosed.

Please acknowledge receipt of the same.

Thanking you Sir,

Yours Sincerely,
For SAGAR CEMENTS LIMITED,


M.V.Ramana Murthy
Sr. Vice President (Works)



Enclosure: Environmental Monitoring report



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

Phone : +91-40-23351571, 23356572 Fax : +91-40-23356573 E-mail : info@sagarcements.in Website : www.sagarcements.in

CIN : L26942TG1981PLC002887 GSTIN : 36AACCS8680H2ZY

Factories : Mattampally, Via Huzurnagar, Suryapet-District, Telangana - 508204. Phone : 08683 - 247039 GSTIN : 36AACCS8680H1ZZ

Bayyavaram Village, Kasimkota Mandal, Visakhapatnam District, Andhra Pradesh - 531031. Phone : 08924-244550 Fax : 08924-244570 GSTIN : 37AACCS8680H1ZX

Gudipadu Village and Post, Yadiki Mandal, Ananthapur District, Andhra Pradesh - 515408. Phone: 08558-200272 GSTIN : 37AACCS8680H1ZX



ISO 9001, 14001 & 45001
CERTIFIED COMPANY

LAWN ENVIRO ASSOCIATES

[Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi
& Laboratory Accredited by NABL

TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Location	Coal Yard (Near STP)	Lime stone crusher	LIMIT	PROTOCOL/METHOD
1. Date of sampling	: 15-4-2024	15-4-2024	--	---
2. Total time of monitoring	: 24 hr	24 hr	--	---
3. Average flow rate (cum/min)	: 1.06	1.14	--	---
4. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 76	66	<100	IS:5182 (Part-23); 2017 Gravimetric Method
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 29	25	<60	IS:5182 (Part-24); 2019 Gravimetric Method
6. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 12	09	<80	IS:5182 (Part-2); 2018 New West & Gaeke Method
7. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 23	18	<80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method


AUTHORISED-SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-DTA-2019), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2463-DTA-2019), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

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TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Location	:	Near	Plant	VRM Area	LIMIT	PROTOCOL/METHOD
		Guest House-1	Main Gate			
1. Date of sampling	:	15-4-2024	15-4-2024	15-4-2024	--	---
2. Total time of monitoring	:	24 hr	24 hr	24 hr	--	---
3. Average flow rate (cum/min)	:	1.10	1.07	1.13	--	---
4. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) --PM ₁₀	:	58	62	72	<100	IS:5182 (Part-23); 2017 Gravimetric Method
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) --PM _{2.5}	:	18	21	27	<60	IS:5182 (Part-24); 2019 Gravimetric Method
6. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	06	08	11	<80	IS:5182 (Part-2); 2018 New West & Gaeke Method
7. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	17	19	22	<80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APS 113 BL; (SL. NO. 105-C-2017), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2161-DTH-2011), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2465-DTA-2019), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

1. FINE PARTICULATE SAMPLER MODEL / APM 550; (SL.NO. 912-DTH-2011), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER MODEL / APM 550; (SL.NO. 931-DTH-2011), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

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TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Location	: Near 18 MW CPP Near Coal Shed	18 MW CPP Entrance	LIMIT	PROTOCOL/METHOD
1. Date of sampling	: 16-4-2024	16-4-2024	--	---
2. Total time of monitoring	: 24 hr	24 hr	--	---
3. Average flow rate (cum/min)	: 1.06	1.16	--	---
4. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 78	72	<100	IS:5182 (Part-23); 2017 Gravimetric Method
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 31	26	<60	IS:5182 (Part-24); 2019 Gravimetric Method
6. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 11	08	<80	IS:5182 (Part-2); 2018 New West & Gaeke Method
7. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 24	18	<80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method


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TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

STACK MONITORING DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Stack attached to the Captive Power Plant 18 MW

1. Date of sampling	:	15-4-2024	PROTOCOL	
2. Location	:	Chimney	--	
3. Stack diameter (m)	:	3.50	--	
4. Stack cross sectional area (sq m)	:	9.62	--	
5. Flue gas temperature ($^{\circ}$ C)	:	135	IS:11255 (Part-3); 2018	
6. Exit velocity of flue gases (m/sec)	:	5.72	IS:11255 (Part-3); 2018	
7. Flow rate (cum/hr)	:	1,98,095	IS:11255 (Part-3); 2018	
		EMISSION DATA	LIMIT	
8. Suspended particulate matter Concentration (mg/Nm ³)	:	21.10	<30	IS:11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/Nm ³)	:	60.30	<100	IS:11255 (Part-2); 2019
10. Oxides of nitrogen Concentration (mg/Nm ³)	:	74.40	<100	IS:11255 (Part-7); 2017
11. Oxygen (%)	:	1.56	---	--
12. Carbon monoxide (%)	:	0.27	---	--
13. Carbon dioxide (%)	:	1.60	---	USEPA

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 30-12-2023, Due On 29-12-2024
M/s. LATA ENVIROTECH SERVICES.


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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Date: 23-4-2024

WASTE WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 15-4-2024
Date of Analysis : 16-4-2024
PROTOCOL : A.P.H.A 23rd Edition

	*I	*II	LIMITS
1. pH	: 7.56	7.85	6.50 - 8.50
2. Total Dissolved Solids	: 1,576	1,402	2,100
3. Total Suspended Solids	: 70	11	100
4. Chemical oxygen demand	: 102	07	250
5. Biochemical oxygen demand (3 days at 27 °C)	: 12	3.60	100
6. Chlorides as Cl	: 179	26	600
7. Sulphates as SO ₄	: 76	04	1000
8. Oil & Grease	: 0.27	<1.0	10

Note: All the values except pH are expressed in mg/L.

*I S.T.P Inlet

*II S.T.P Outlet


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TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

WASTE WATER QUALITY ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Sample Particulars : Captive Power Plant - 18 MW Discharge Water
Date of Collection : 17-4-2024
Date of Analysis : 18-4-2024
PROTOCOL : A.P.H.A. 23rd Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.60	6.50-8.50
2. Total dissolved solids	:	1,478	2100
3. Total Suspended solids (at 103-105 °C)	:	26	100
4. Chemical oxygen demand	:	61.70	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	7.50	30
6. Chlorides as Cl	:	244.30	600
7. Sulphates as SO ₄	:	45.70	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.50	NS
10. Free available chlorine as Cl ₂	:	<0.50	0.50
11. Copper as Cu	:	0.12	1.0
12. Iron as Fe	:	0.16	1.0
13. Phosphate as P	:	0.26	5.0
14. Zinc as Zn	:	0.10	1.0
15. Chromium as Cr ⁺⁶	:	0.23	0.20

Note: 1. All the values except pH are expressed in mg/L.

2. NS – Not Specified.


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TEST REPORT

REF.NO: LAWN/SAGAR-P/2024

Date: 23-4-2024

WASTE WATER QUALITY ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Sample Particulars : WHR Discharge water
Date of Collection : 17-4-2024
Date of Analysis : 18-4-2024
PROTOCOL : A.P.H.A. 23rd Edition, 2017 & IS 3025

Limits as per GSR 422E

1. pH	:	7.32	6.50-8.50
2. Total dissolved solids	:	1,340	2100
3. Total Suspended solids (at 103-105 °C)	:	11	100
4. Chemical oxygen demand	:	34.20	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	4.60	30
6. Chlorides as Cl	:	218.50	600
7. Sulphates as SO ₄	:	25.70	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.19	NS
10. Free available chlorine as Cl ₂	:	<0.50	0.50
11. Copper as Cu	:	0.05	1.0
12. Iron as Fe	:	0.11	1.0
13. Phosphate as P	:	0.13	5.0
14. Zinc as Zn	:	0.012	1.0
15. Chromium as Cr ⁺⁶	:	0.15	0.20

Note: 1. All the values except pH are expressed in mg/L

2. NS – Not Specified.

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ISSUED TO:

**M/s. SAGAR CEMENTS LIMITED,
MATTAMPALLY VILLAGE,
DIST: SURYAPET,
TELANGANA STATE-508204
INDIA**

Report Number : VLL/VLS/23/21861/001
Issued Date : 2024-03-21
P.O. Number : MCW02300175
P.O Date : 27/12/2023

Page 01 of 01

Sample Particulars : Source Emission Monitoring at Raw Mill & Kiln Bag House stack
AFR Details : Organic Liquid, Organic Solvent, Organic Sludge, Plastic Waste, Spent Carbon & Wood Chips.
Mode of Operation : Compound Mode (Raw Mill & Coal Mill On Condition)

Sample Collection Date	: 2024-02-26	Sample Registration Date	: 2024-02-28
Analysis Starting Date	: 2024-02-28	Analysis Completion Date	: 2024-03-21
Test Required	: PM, SO ₂ , NO ₂ , HCl, HF, CO, CO ₂ , O ₂ , TOC, Hg, Cd+Ti and Heavy Metals.		
Sample collected by Vimta labs ltd.			

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoEF&CC Notification GSR 497(E)
1	Diameter of stack	m	-	5.0	--
2	Area of Stack	m ²	-	19.625	--
3	Flue gas temperature	°C	-	128	--
4	Oxygen as O ₂	%	Flue Gas Analyzer	9.2	10%
5	Velocity	m/sec	USEPA method-2	11.37	--
6	Volumetric flow rate	Nm ³ /Sec		163.07	--
7	Particulate Matter as PM	mg/Nm ³	USEPA method-5	15.13	<30
8	Sulphur Dioxide as SO ₂	mg/Nm ³	USEPA method -06	<3.0	<100
9	Oxides of Nitrogen NO _x as NO ₂	mg/Nm ³	USEPA method -07	395.1	<800
10	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	5.4	<10
11	Hydrogen Fluoride as HF	mg/Nm ³	USEPA method -13	0.29	<1.0
12	Carbon Monoxide as CO	mg/Nm ³	Flue Gas Analyzer	23.95	<100
13	Total Organic Compounds as TOC	mg/Nm ³	USEPA method -40 & MM5(10)	4.1	<10
14	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.05
15	Cadmium + Thallium their Compound	mg/Nm ³		<0.001	<0.05
16	Total Metals: Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds	mg/Nm ³		0.172	<0.5

All the Values are represented at 10% O₂



Dr. Subba Reddy Mallampati
Manager-Environment

ISSUED TO:

**M/s. SAGAR CEMENTS LIMITED,
MATTAMPALLY VILLAGE,
DIST: SURYAPET,
TELANGANA STATE-508204
INDIA**

Report Number : VLL/VLS/23/21861/002
Issued Date : 2024-03-21
P.O. Number : MCW02300175
P.O Date : 27/12/2023

Page 01 of 01

Sample Particulars : Source Emission Monitoring at Raw Mill & Kiln Bag House stack
AFR Details : Organic Liquid, Organic Solvent, Organic Sludge, Plastic Waste, Spent Carbon & Wood Chips.
Mode of Operation : Compound Mode (Raw Mill & Coal Mill On Condition)

Sample Collection Date : 2024-02-26 Sample Registration Date : 2024-02-28
Analysis Starting Date : 2024-02-28 Analysis Completion Date : 2024-03-21
Test Required : PCDD & PCDF

Sample collected by Vimta labs Ltd. Outsourcing Registration Number EKA2-24-03-00321, ALS Czech Republic.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results
1	Diameter of stack	m	-	5.0
2	Area of Stack	m ²	-	19.625
3	Flue gas temperature	°C	-	128
4	Oxygen as O ₂	%	Flue Gas Analyzer	9.2
5	Velocity	m/sec	USEPA method-2	11.37
6	Volumetric flow rate	Nm ³ /Sec		163.07
Congeners of PCDD & PCDF		Concentration		
		Concentration (ng)	TEF	TEQ (ng)
1	2378-TCDD	0.0044	1	0.0007
2	12378-PeCDD	0.0047	0.5	0.0004
3	123478-HxCDD	0.0130	0.1	0.0006
4	123678-HxCDD	0.0220	0.1	0.0015
5	123789-HxCDD	0.0066	0.1	0.0001
6	1234678-HpCDD	0.0860	0.01	0.0008
7	OCDD	0.0900	0.001	0.0001
8	2378-TCDF	0.1000	0.1	0.0097
9	12378-PeCDF	0.0370	0.05	0.0016
10	23478-PeCDF	0.0350	0.5	0.0151
11	123478-HxCDF	0.0370	0.1	0.0032
12	123678-HxCDF	0.0190	0.1	0.0014
13	123789-HxCDF	0.0064	0.1	0.0001
14	234678-HxCDF	0.0220	0.1	0.0017
15	1234678-HpCDF	0.0360	0.01	0.0003
16	1234789-HpCDF	0.0120	0.01	0.0001
17	OCDF	0.0310	0.001	0.0000
Total Furans & Dioxins (ng/Nm³, TEQ)				0.0072
Total Furans & Dioxins (ng/Nm³, TEQ Corrected to 10% O₂ Concentration)				0.0067
Limits as per MoEF&CC Notification GSR 497(E):				<0.1

Method of Testing: As per USEPA 23 A & 8290


Dr. Subba Reddy Mallampati
Manager-Environment