



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2024-25/037

Date: 07.08.2024

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-NI.G/HO/CFO /2023-957, dated:
09.10.2023

We are herewith submitting the NABL approved third party AAQ monitoring report, Stack emission monitoring report, Noise report, fugitive emission report, STP, WHRBPP and CPP water analysis reports for the month of **July-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 State, 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 Village & Mandal, Suryapet District, Telangana State - 508204. Phone : 08683 - 247039 GSTIN : 36AACCS8680H1ZZ

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

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



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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/SCL-P/2024

Report Date: 24-7-2024

AMBIENT AIR QUALITY DATA

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

Location	Mattampally Village	Pedaveedu Village	LIMIT	PROTOCOL/METHOD
1. Date of sampling	15-7-2024	15-7-2024	--	---
2. Date of Analysis	18-7-2024	18-7-2024	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.09	1.12	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	48	52	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	21	23	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	10	07	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	21	16	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):	0.024	0.022	2	IS:5182 (Part-10); 2019 CO Analyzer 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



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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

AMBIENT AIR QUALITY DATA

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

Location	Gullapally Village	Ramachandrapuram Village	LIMIT	PROTOCOL/METHOD
1. Date of sampling	15-7-2024	15-7-2024	--	---
2. Date of Analysis	18-7-2024	18-7-2024	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.14	1.06	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	44	41	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	19	16	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	09	13	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	18	25	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):	0.015	0.013	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2161-DTH-2011), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL / APS 113 BL; (SL. NO. 105-C-2017), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 16-I-623), 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

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com



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AMBIENT AIR QUALITY DATA

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

Location	Plant Main gate	LIMIT	PROTOCOL/METHOD
1. Date of sampling	15-7-2024	--	---
2. Date of Analysis	18-7-2024	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.09	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	57	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	24	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	11	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	23	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m^3)	0.045	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

1. 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 / AAS 127 MINI; AAQM 510;(S.NO. 220828),CALIBRATED ON 29-08-2023,DUE ON 28-08-2024



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Report Date: 24-7-2024

FUGITIVE EMISSION DATA

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

PROTOCOL : IS-5182 (Part-4)

S.No.	Location	Date of Sampling	Date of Analysis	SPM ($\mu\text{g}/\text{m}^3$)	LIMIT
1	Cement Mill	16-7-2024	18-7-2024	1,125	2000 ($\mu\text{g}/\text{m}^3$)
2	VRM	16-7-2024	18-7-2024	1,341	
3	Packing Plant	16-7-2024	18-7-2024	1,490	
4	Crusher	16-7-2024	18-7-2024	1,646	
5	Lime Stone Stacker Reclaimer	17-7-2024	18-7-2024	1,397	
6	Coal Mill	17-7-2024	18-7-2024	1,075	
7	Raw Mill Area	17-7-2024	18-7-2024	967	
8	Truck Parking Area	17-7-2024	18-7-2024	1,184	
9	Coal Mill - 2	18-7-2024	18-7-2024	1,309	
10	Iron Ore Yard	18-7-2024	18-7-2024	1,438	


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



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TEST REPORT

REF.NO: LAWN/SCL-P/2024

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STACK MONITORING DATA

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

Sample Particulars : Stack attached to the RABH (Kiln – 2 VRM)
Date of Sampling : 15-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 36	--
4. Flue gas temperature (°C)	: 96	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.97	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 8,45,896	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 6,52,186	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 13.90	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m ³)	: 0.78	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No ₂) Concentration (mg/N m ³)	: 261.90	800	IS-11255 (Part-7); 2017


AUTHORISED SIGNATORY

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



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

Sample Particulars : Stack attached to the Limestone Crusher
Date of Sampling : 15-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 34	--
4. Flue gas temperature (°C)	: 42	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.97	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 60,818	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 54,979	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 19.40	30	IS-11255 (Part-1); 2019
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STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Coal Mill - 2
Date of Sampling : 15-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 37	--
4. Flue gas temperature (°C)	: 79	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.58	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 47,107	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 38,204	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 14.80 30 IS-11255
(Part-1); 2019


AUTHORISED SIGNATORY

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



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STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Coal Mill - 3
Date of Sampling : 15-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 35	--
4. Flue gas temperature (°C)	: 75	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.42	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 59,685	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 48,942	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 18.70 30 IS-11255
(Part-1); 2019


AUTHORISED SIGNATORY

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



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TEST REPORT

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Report Date: 24-7-2024

STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Klin-2 Cooler ESP
Date of Sampling : 16-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 39	--
4. Flue gas temperature (°C)	: 146	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.21	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 3,35,165	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 2,29,253	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 15.72 30 IS-11255
(Part-1); 2019


AUTHORISED SIGNATORY

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



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STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Packing Plant - 4
Date of Sampling : 16-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 38	--
4. Flue gas temperature (°C)	: 47	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.81	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 58,890	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 52,530	IS-11255 (Part-3); 2018

EMISSION DATA LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 13.10	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Packing Plant - 3
Date of Sampling : 16-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 35	--
4. Flue gas temperature (°C)	: 41	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.36	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 52,224	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 47,524	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 19.40 30 IS-11255
(Part-1); 2019


AUTHORISED SIGNATORY

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



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

Sample Particulars : Stack attached to the Cement Mill - 3
Date of Sampling : 17-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 37	--
4. Flue gas temperature (°C)	: 84	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.70	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 48,233	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 38,586	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 14.90 30 IS-11255
(Part-1); 2019

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

Sample Particulars : Stack attached to the Cement Mill-4
Date of Sampling : 16-7-2024
Date of Analysis : 18-7-2024

PROTOCOL

1. Stack diameter (m)	:	1.40	--
2. Stack cross sectional area (sq m)	:	1.54	--
3. Ambient temperature (°C)	:	35	--
4. Flue gas temperature (°C)	:	88	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	8.10	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	44,906	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	35,521	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	11.70	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

WASTE WATER ANALYSIS

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

Date of Collection : 18-7-2024
Date of Analysis : 19-7-2024
PROTOCOL : IS - 3025

	S.T.P. Inlet	S.T.P. Outlet	S.T.P Outlet LIMIT
1. Colour (Hazen)	<5.0	<5.0	--
2. Odour	Objectionable	UnObjectionable	--
3. pH	7.38	7.71	6.5 - 8.5
4. Total Dissolved Solids	2,520	1,373	2,100
5. Total Suspended Solids	166	09	100
6. Chemical oxygen demand	412	07	250
7. Biochemical oxygen demand (3 days at 27 °C)	30	2.80	100
8. Oil & Grease	1.80	<1.0	10

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

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

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com



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REF.NO: LAWN/SCL-P/2024

TEST REPORT

Report Date: 24-7-2024

WATER ANALYSIS

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

Sample Particular : Drinking Water (R.O Plant)
Date of Collection : 18-7-2024
Date of Analysis : 19-7-2024
PROTOCOL : A.P.H.A 24th Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	:	<5.0	5 max	15 max
2. Turbidity (NTU)	:	<1.0	01 max	05 max
3. pH	:	7.69	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO ₃ :	10	200 max	600 max
5. Calcium	as Ca :	3.06	75 max	200 max
6. Magnesium	as Mg :	0.52	30 max	100 max
7. Copper	as Cu :	<0.01	0.05	1.5
8. Iron	as Fe :	<0.10	0.3 max	No relaxation
9. Manganese	as Mn :	<0.01	0.1 max	0.3 max
10. Chloride	as Cl :	6.92	250 max	1000 max
11. Sulphate	as SO ₄ :	2.18	200 max	400 max
12. Nitrates	as NO ₃ :	0.74	45 max	No relaxation
13. Fluorides	as F :	0.14	1.0 max	1.5 max
14. Phenol Compunds	as C ₆ H ₅ OH :	<0.001	0.001	0.002
15. Mercury	as Hg :	<0.001	0.001	No relaxation
16. Cadmium	as Cd :	<0.003	0.003	No relaxation
17. Selenium	as Se :	<0.01	0.01	No relaxation
18. Arsenic	as As :	<0.001	0.01	0.05

Contd....

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:2:

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Cyanide	as CN	:	<0.01	0.05	No relaxation
20. Lead	as Pb	:	<0.01	0.01	No relaxation
21. Zinc	as Zn	:	<0.01	5.0	15
22. Anionic Detergents	as MBAS	:	Absent	0.2	1.0
23. Chromium	as Cr	:	<0.01	0.05	No relaxation
24. Polynuclear aromatic Hydrocarbons as PAH	:	:	Absent	NS	NS
25. Mineral Oil	:	:	<0.10	0.5	No relaxation
26. Residual Chlorine	:	:	<0.20	0.2	01
27. Pesticides	:	:	Absent	Absent	0.001
28. Radio active	:	:	<0.001	0.1	No relaxation
29. Odour	:	:	Agreeable	Agreeable	Agreeable
30. Taste	:	:	Agreeable	Agreeable	Agreeable
31. Dissolved Solids	:	:	50	500	2000
32. Total alkalinity	as CaCO ₃	:	32	200 max	600 max
33. Aluminium	as Al	:	0.005	0.3	0.2
34. Boron	as B	:	0.008	0.5	1.0
35. E-Coli	:	:	Absent	Absent	NS

Note : 1) All the values except pH & E.C. are expressed in mg/L.
2) NS – Not Specified

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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

AMBIENT NOISE QUALITY DATA

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

Location	:	Levels in dB (A)	
		Day time	Night time
1. Near Main gate	:	61.40	56.20
2. Near Gullapally Village	:	55.20	50.90
3. Near Ramachandrapuram Village	:	60.30	55.80
4. Near Mattampally Village	:	64.90	59.40
5. Near Peddaveedu Village	:	63.20	58.30

- Note:**
- Noise levels are monitored on 16-7-2024.
 - Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
 - Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A) – As per NAAQ
 - Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A) – As per NAAQ


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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

WORK ZONE NOISE QUALITY DATA

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

Location	Levels in dB (A)		
	Max	Min	Avg.
1. Near Cement Mill - 1	79.10	72.50	77.30
2. Near Coal Mill - 3	81.50	74.60	79.50
3. Near VRM area	80.40	73.10	78.10
4. Near Kiln - 1	78.20	71.40	76.50
5. Near Kiln - II	82.50	72.80	77.60
6. Near WHR Boiler area	84.80	73.10	78.90
7. Near Cement Mill - 3	83.70	76.90	81.10
8. Near Packing Plant	69.40	62.40	67.60
9. Near AFR area	65.80	61.10	63.40
10. Near STP area	67.10	57.50	62.90
11. Near Limestone Reclaimer	70.90	63.90	68.50
12. Trucking Parking	61.40	54.50	59.60
13. Captive Power Plant Boiler	79.50	70.80	75.90
14. Coal Handling Area (CPP)	80.80	72.10	77.40
15. Turbine Generator Area	82.50	75.90	80.10

- Note:** *I 1. Noise levels monitoring conducted on 17-7-2024.
2. Instrument make - Lutron SL - 4001 / G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
- *II The noise Pollution (Regulation and Control) Rules, 2000
Schedule, Rule 3(1) and 4(1), Section 7 - (IX) factories act - Limit <90 dB (A)

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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

AMBIENT AIR QUALITY DATA

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

Location	CPP Entrance	LIMIT	PROTOCOL/METHOD
1. Date of sampling	16-7-2024	--	---
2. Date of Analysis	18-7-2024	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.14	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	54	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	18	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	11	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	23	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m^3)	0.027	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

1. 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-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

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

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com



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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

FUGITIVE EMISSION DATA

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

PROTOCOL : IS-5182 (Part-4)

S.No.	Location	Date of Sampling	Date of Analysis	SPM ($\mu\text{g}/\text{m}^3$)	LIMIT
1	Captive Power Plant	18-7-2024	18-7-2024	1,187	2000 ($\mu\text{g}/\text{m}^3$)
2	Coal Yard	18-7-2024	18-7-2024	1,316	

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

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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

STACK MONITORING DATA

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

Sample Particular : Stack attached to the **Captive Power Plant 18 MW**

PROTOCOL

1. Date of sampling	:	16-7-2024	--
2. Date of analysis	:	18-7-2024	--
3. Location	:	Chimney	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature ($^{\circ}$ C)	:	38	--
7. Flue gas temperature ($^{\circ}$ C)	:	124	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	:	5.89	IS:11255 (Part-3); 2018
9. Flow rate (m ³ /hr)	:	2,03,982	IS:11255 (Part-3); 2018
10. Flow rate (N m ³ /hr)	:	1,47,479	IS:11255 (Part-3); 2018

EMISSION DATA

LIMIT

11. Particulate matter Concentration (mg/Nm ³)	:	18.40	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration (mg/Nm ³)	:	46.30	100	IS:11255 (Part-2); 2019
13. Oxides of nitrogen Concentration (mg/Nm ³)	:	59.90	100	IS:11255 (Part-7); 2017
14. Mercury Concentration (mg/Nm ³)	:	<0.01	0.03	--

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2024

Report Date: 24-7-2024

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 : 18-7-2024
Date of Analysis : 19-7-2024
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.55	6.50-8.50
2. Total dissolved solids	:	1,372	2100
3. Total Suspended solids (at 103-105 °C)	:	25	100
4. Chemical oxygen demand	:	58.14	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	7.40	30
6. Chlorides as Cl	:	241.90	600
7. Sulphates as SO ₄	:	44.30	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.60	NS
10. Free available chlorine as Cl ₂	:	<0.50	0.50
11. Copper as Cu	:	0.11	1.0
12. Iron as Fe	:	0.14	1.0
13. Phosphate as P	:	0.23	5.0
14. Zinc as Zn	:	0.10	1.0
15. Chromium as Cr	:	0.26	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/SCL-P/2024

Report Date: 24-7-2024

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 : 18-7-2024
Date of Analysis : 19-7-2024
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.56	6.50-8.50
2. Total dissolved solids	:	1,126	2100
3. Total Suspended solids (at 103-105 °C)	:	07	100
4. Chemical oxygen demand	:	23.60	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	3.40	30
6. Chlorides as Cl	:	170.30	600
7. Sulphates as SO ₄	:	18.50	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.18	NS
10. Free available chlorine as Cl ₂	:	<0.50	0.50
11. Copper as Cu	:	0.04	1.0
12. Iron as Fe	:	0.09	1.0
13. Phosphate as P	:	0.15	5.0
14. Zinc as Zn	:	0.007	1.0
15. Chromium as Cr	:	0.13	0.20

Note: 1. All the values except pH are expressed in mg/L
2. NS – Not Specified.


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