



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/042

Date: 12.08.2025

To
The Environmental Engineer,
TGPCB, 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 AAQ monitoring report, Stack emission monitoring report, Noise report, fugitive emission report, STP, WHRB and CPP water analysis reports tested by NABL approved third party laboratory for the month of July - 2025 are enclosed.

Please acknowledge receipt of the same.

Thank you

Yours Sincerely,
For SAGAR CEMENTS LIMITED,

M V R Murthy

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, 23351572 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
Kalinganagar, Industrial Complex, Tahsil-Dangadi, Dist - Jajpur, Odisha. Phone : 08340882288 GSTIN : 21AACCS8680H1ZA



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

Recognised by MOEF&CC/CPCB under EP Act, GOI, New Delhi & Laboratory Accredited by NABL



ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	25-7-2025	25-7-2025	--	---
2. Date of Analysis	28-7-2025	28-7-2025	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.12	1.10	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	50.38	58.47	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	20.49	24.65	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	9.40	11.70	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	18.20	22.60	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):	0.010	0.014	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 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2463-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	25-7-2025	25-7-2025	--	---
2. Date of Analysis	28-7-2025	28-7-2025	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.15	1.07	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	46.52	55.29	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	17.46	23.64	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	8.60	7.80	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	19.20	16.10	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):	0.006	0.012	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 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APS 113 BL; (SL. NO. 105-C-2017), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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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	25-7-2025	--	---
2. Date of Analysis	28-7-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.07	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	62.49	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	25.51	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	12.30	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	24.10	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³)	0.024	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 06-01-2025, DUE ON 05-01-2026

1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; AAQM 510;(S.NO. 220828), CALIBRATED ON 28-08-2024,DUE ON 27-08-2025



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REF.NO: LAWN/SCL-P/2025

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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	26-7-2025	28-7-2025	964	2000 ($\mu\text{g}/\text{m}^3$)
2	VRM	26-7-2025	28-7-2025	1,326	
3	Packing Plant	26-7-2025	28-7-2025	1,426	
4	Crusher	26-7-2025	28-7-2025	1,504	
5	Lime Stone Stacker Reclaimer	26-7-2025	28-7-2025	1,148	
6	Coal Mill	27-7-2025	28-7-2025	1,536	
7	Raw Mill Area	27-7-2025	28-7-2025	1,274	
8	Truck Parking Area	27-7-2025	28-7-2025	1,112	
9	Coal Mill - 2	27-7-2025	28-7-2025	1,244	
10	Iron Ore Yard	27-7-2025	28-7-2025	1,202	


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APS 113 BL; (SL. NO.105-C-2017), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2161-DTH-2011), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
3. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2465-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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 : 26-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 136	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.96	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 8,45,189	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 6,06,304	IS-11255 (Part-3); 2018

EMISSION DATA

LIMITS

8. Particulate matter Concentration (mg/N m ³)	: 15.90	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m ³)	: 5.20	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No ₂) Concentration (mg/N m ³)	: 375	800	IS-11255 (Part-7); 2017

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 06-01-2025, Due On 05-01-2026



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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 Limestone Crusher
Date of Sampling : 26-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 33	--
4. Flue gas temperature (°C)	: 40	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.66	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 53,555	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 50,174	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 12.90	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 06-01-2025, Due On 05-01-2026

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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 : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 30	--
4. Flue gas temperature (°C)	: 68	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.37	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 50,321	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 43,199	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 20.40	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 06-01-2025, Due On 05-01-2026



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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 - 3
Date of Sampling : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 70	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.32	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 65,514	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 55,985	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 21.94 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 Klin-2 Cooler ESP
Date of Sampling : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 142	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.29	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 3,38,431	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 2,59,238	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 18.74	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 06-01-2025, Due On 05-01-2026

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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 Cement Mill-2
Date of Sampling : 26-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 0.90	--
2. Stack cross sectional area (sq m)	: 0.636	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 86	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.41	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 23,834	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 19,433	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 16.24	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 Cement Mill - 3
Date of Sampling : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 30	--
4. Flue gas temperature (°C)	: 84	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.29	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 45,960	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 37,503	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 13.60	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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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 Packing Plant - 2
Date of Sampling : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 33	--
4. Flue gas temperature (°C)	: 39	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.71	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 44,639	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 41,996	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 19.63	30	IS-11255 (Part-1); 2019
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Report Date: 04-8-2025

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 : 27-7-2025
Date of Analysis : 28-7-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 33	--
4. Flue gas temperature (°C)	: 44	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.69	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 53,741	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 49,227	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 18.45	30	IS-11255 (Part-1); 2019
--	---------	----	----------------------------

AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 06-01-2025, Due On 05-01-2026

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 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

Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

WASTE WATER ANALYSIS

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

Date of Collection : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : IS - 3025

	S.T.P. Inlet	S.T.P. Outlet	S.T.P Outlet LIMIT
1. Colour (Hazen)	3.0	<1.0	--
2. Odour	Objectionable	UnObjectionable	--
3. pH	7.45	7.92	6.5 - 8.5
4. Total Dissolved Solids	1,761	1,670	2,100
5. Total Suspended Solids	87	18	100
6. Chemical oxygen demand	210	44	250
7. Biochemical oxygen demand (3 days at 27 °C)	82	08	100
8. Oil & Grease	1.90	<1.0	10

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

WATER ANALYSIS

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

Sample Particulars : Gundlapally Village up Stream Surface Water
Date of Collection : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	:	7.45	8.5
2. Dissolved oxygen	:	5.70	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.42	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms/100ml	:	124	5000
12. Escherichia Coli/100ml	:	Absent	Absent

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

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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

WATER ANALYSIS

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

Sample Particulars : Gundlapally Village down Stream Surface Water
Date of Collection : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	:	7.81	8.5
2. Dissolved oxygen	:	5.40	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.34	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms /100 ml	:	130	5000
12. Escherichia Coli/100 ml	:	Absent	Absent

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

WATER ANALYSIS

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

Sample Particulars : Ramchandrapuram Village up Stream Surface Water
Date of Collection : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	: 7.60		8.5
2. Dissolved oxygen	: 5.10		>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	: <5.0		3.0
4. Fluorides as F	: 0.30		1.5
5. Colour (Hazen Units)	: <1.0		300
6. Cyanide as CN	: <0.01		0.05
7. Arsenic as As	: <0.01		0.02
8. Phenol Compunds as C ₆ H ₅ OH	: <0.01		0.005
9. Chromium as Cr	: <0.01		0.05
10. Anionic Detergents as MBAS	: <0.05		1.0
11. Total Coli forms/100 ml	: 128		5000
12. Escherichia Coli/100 ml	: Absent		Absent

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

WATER ANALYSIS

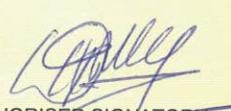
Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Sample Particulars : Ramchandrapuram Village down Stream Surface Water
Date of Collection : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	: 7.96	8.5
2. Dissolved oxygen	: 5.70	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	: <5.0	3.0
4. Fluorides as F	: 0.25	1.5
5. Colour (Hazen Units)	: <1.0	300
6. Cyanide as CN	: <0.01	0.05
7. Arsenic as As	: <0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	: <0.01	0.005
9. Chromium as Cr	: <0.01	0.05
10. Anionic Detergents as MBAS	: <0.05	1.0
11. Total Coli forms/100 ml	: 139	5000
12. Escherichia Coli/100 ml	: Absent	Absent

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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 : 27-7-2025
Date of Analysis : 28-7-2025
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)	: <1.0	5 max	15 max
2. Turbidity (NTU)	: <1.0	01 max	05 max
3. pH	: 7.40	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO ₃ : 85	200 max	600 max
5. Calcium	as Ca : 19.38	75 max	200 max
6. Magnesium	as Mg : 8.77	30 max	100 max
7. Copper	as Cu : <0.01	0.05 max	1.5 max
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 : 49.58	250 max	1000 max
11. Sulphate	as SO ₄ : 14.34	200 max	400 max
12. Nitrates	as NO ₃ : 3.67	45 max	No relaxation
13. Fluorides	as F : <0.20	1.0 max	1.5 max
14. Phenol Compunds	as C ₆ H ₅ OH : <0.001	0.001 max	0.002 max
15. Mercury	as Hg : <0.001	0.001 max	No relaxation
16. Cadmium	as Cd : <0.003	0.003 max	No relaxation
17. Selenium	as Se : <0.01	0.01 max	No relaxation
18. Arsenic	as As : <0.01	0.01 max	0.05 max

Contd....

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TEST REPORT

: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 max	No relaxation
20. Lead	as Pb	:	<0.01	0.01 max	No relaxation
21. Zinc	as Zn	:	<0.01	5.0 max	15 max
22. Anionic Detergents	as MBAS	:	Absent	0.2 max	1.0 max
23. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
24. Polynuclear aromatic Hydrocarbons as PAH:			Absent	0.0001	NS
25. Mineral Oil		:	<0.10	0.5 max	No relaxation
26. Residual Chlorine		:	<0.20	0.2 min	01 min
27. Pesticides		:	Absent	Absent	No relaxation
28. Radio active		:	<0.001	0.1 max	No relaxation
29. Odour		:	Agreeable	Agreeable	Agreeable
30. Taste		:	Agreeable	Agreeable	Agreeable
31. Dissolved Solids		:	176	500 max	2000 max
32. Total alkalinity	as CaCO ₃	:	112	200 max	600 max
33. Aluminium	as Al	:	<0.01	0.3 max	0.2 max
34. Boron	as B	:	<0.10	0.5 max	1.0 max
35. E-Coli		:	Absent	Absent	Absent

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

AUTHORISED SIGNATORY



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	:	64.20	59.30
2. Near Gullapally Village	:	50.60	39.80
3. Near Ramachandrapuram Village	:	47.80	37.30
4. Near Mattampally Village	:	48.50	38.80
5. Near Peddaveedu Village	:	51.40	41.40

- Note:**
- Noise levels are monitored on 26-7-2025.
 - Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
 - 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/2025

Report Date: 04-8-2025

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	78.10	73.50	75.80
2. Near Coal Mill - 3	76.90	71.40	74.15
3. Near VRM area	80.40	75.20	77.80
4. Near Kiln - 1	82.60	74.10	78.35
5. Near Kiln - II	81.90	77.50	79.70
6. Near WHR Boiler area	83.20	78.80	81.00
7. Near Cement Mill - 3	77.40	72.70	75.05
8. Near Packing Plant	79.10	74.90	77.00
9. Near AFR area	81.40	77.40	79.40
10. Near STP area	73.60	68.10	70.85
11. Near Limestone Reclaimer	74.80	69.50	72.15
12. Truck Parking Area	67.30	62.90	65.10
13. Captive Power Plant Boiler	84.90	79.80	82.35
14. Coal Handling Area (CPP)	76.50	71.10	73.80
15. Turbine Generator Area	82.60	77.30	79.95

- Note:** *I 1. Noise levels monitoring conducted on 26-7-2025.
2. Instrument make - Lutron SL - 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
- *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)


AUTHORIZED SIGNATORY



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	28-7-2025	--	---
2. Date of Analysis	28-7-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.11	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	68.14	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	28.49	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	10.20	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	22.50	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m^3)	0.036	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 06-01-2025, DUE ON 05-01-2026

1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	28-7-2025	28-7-2025	1,614	2000 ($\mu\text{g}/\text{m}^3$)
2	Coal Yard	28-7-2025	28-7-2025	1,478	


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2465-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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	:	26-7-2025	--
2. Date of analysis	:	28-7-2025	--
3. Location	:	Chimney	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature (°C)	:	31	--
7. Flue gas temperature (°C)	:	126	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	:	6.03	IS:11255 (Part-3); 2018
9. Flow rate (m ³ /hr)	:	2,08,830	IS:11255 (Part-3); 2018
10. Flow rate (N m ³ /hr)	:	1,53,081	IS:11255 (Part-3); 2018

EMISSION DATA

LIMITS

11. Particulate matter Concentration (mg/Nm ³)	:	24.58	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration (mg/Nm ³)	:	48.10	100	IS:11255 (Part-2); 2019
13. Oxides of nitrogen Concentration (mg/Nm ³)	:	56.70	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 06-01-2025, DUE ON 05-01-2026


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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 : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		Limits as per GSR 422E	
1. pH	:	7.42	6.50-8.50
2. Total dissolved solids	:	1,472	2100
3. Total Suspended solids (at 103-105 °C)	:	38	100
4. Chemical oxygen demand	:	76.10	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	9.60	30
6. Chlorides as Cl	:	381	600
7. Sulphates as SO ₄	:	124	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.10	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.06	1.0
12. Iron as Fe	:	0.31	1.0
13. Phosphate as P	:	0.64	5.0
14. Zinc as Zn	:	<0.10	1.0
15. Chromium as Cr	:	<0.01	0.20

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


AUTHORISED SIGNATORY



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

Recognised by MOEF&CC/CPCB under EP Act, GOI, New Delhi & Laboratory Accredited by NABL



ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 04-8-2025

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 : 27-7-2025
Date of Analysis : 28-7-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.69	6.50-8.50
2. Total dissolved solids	:	1,021	2100
3. Total Suspended solids (at 103-105 °C)	:	34	100
4. Chemical oxygen demand	:	44.30	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	289.10	600
7. Sulphates as SO ₄	:	69.50	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.20	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.11	1.0
12. Iron as Fe	:	0.26	1.0
13. Phosphate as P	:	0.64	5.0
14. Zinc as Zn	:	<0.10	1.0
15. Chromium as Cr	:	<0.01	0.20

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


AUTHORISED SIGNATORY