



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2024-25/100

Date: 13.02.2025

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 **January - 2025** are enclosed.

Please acknowledge receipt of the same.

Thanking you Sir,

Yours Sincerely,
For SAGAR CEMENTS LIMITED,

M.V.R. Murthy

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

M.V.R.

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]

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ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-01-2025

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	: 21-01-2025	21-01-2025	--	---	
2. Date of Analysis	: 24-01-2025	24-01-2025	--	---	
3. Total time of monitoring	: 24 hr	24 hr	--	---	
4. Average flow rate (cum/min)	: 1.15	1.10	--	---	
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 53	58	100	IS:5182 (Part-23); 2017 Gravimetric Method	
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 21	24	60	IS:5182 (Part-24); 2019 Gravimetric Method	
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 12	09	80	IS:5182 (Part-2); 2018 New West & Gaeke Method	
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 24	18	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method	
9. CO, Concentration (mg/m ³):	0.020	0.015	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

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

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Report Date: 31-01-2025

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	21-01-2025	21-01-2025	--	---
2. Date of Analysis	24-01-2025	24-01-2025	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.12	1.06	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	49	55	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	16	22	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	07	10	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	15	20	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	21-01-2025	--	---
2. Date of Analysis	24-01-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.06	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	61	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	25	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 ($\mu\text{g}/\text{m}^3$)	21	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m^3)	0.030	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

Report Date: 31-01-2025

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	Cement Mill	20-01-2025	24-01-2025	1,290	2000 ($\mu\text{g}/\text{m}^3$)
2	VRM	20-01-2025	24-01-2025	1,524	
3	Packing Plant	20-01-2025	24-01-2025	1,734	
4	Crusher	20-01-2025	24-01-2025	1,612	
5	Lime Stone Stacker Reclaimer	20-01-2025	24-01-2025	1,378	
6	Coal Mill	22-01-2025	24-01-2025	1,786	
7	Raw Mill Area	22-01-2025	24-01-2025	1,470	
8	Truck Parking Area	22-01-2025	24-01-2025	1,346	
9	Coal Mill - 2	22-01-2025	24-01-2025	1,760	
10	Iron Ore Yard	22-01-2025	24-01-2025	1,647	

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
4. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2463-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
5. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-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: 31-01-2025

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 : 22-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 31	--
4. Flue gas temperature (°C)	: 92	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.67	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 8,95,363	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 7,16,003	IS-11255 (Part-3); 2018

EMISSION DATA

LIMITS

8. Particulate matter Concentration (mg/N m ³)	: 16.40	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m ³)	: 1.20	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No ₂) Concentration (mg/N m ³)	: 329.50	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 : 22-01-2025
Date of Analysis : 24-01-2025

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)	: 42	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.09	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 55,939	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 51,968	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 18.90 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



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TEST REPORT

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Report Date: 31-01-2025

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 Coal Mill - 2
Date of Sampling : 21-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 31	--
4. Flue gas temperature (°C)	: 70	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.77	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 39,744	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 33,807	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 20.47	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 Coal Mill - 3
Date of Sampling : 21-01-2025
Date of Analysis : 24-01-2025

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)	: 68	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.19	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 64,564	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 55,426	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 14.36 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

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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 : 22-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 31	--
4. Flue gas temperature (°C)	: 135	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.29	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 4,20,078	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 2,99,700	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 18.16 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

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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 : 21-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 84	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.27	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 45,848	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 37,562	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 19.03 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

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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 : 21-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 0.90	--
2. Stack cross sectional area (sq m)	: 0.636	--
3. Ambient temperature (°C)	: 28	--
4. Flue gas temperature (°C)	: 86	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.65	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 22,095	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 18,014	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 15.74	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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Report Date: 31-01-2025

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 Cement Mill-4
Date of Sampling : 21-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	:	1.40	--
2. Stack cross sectional area (sq m)	:	1.54	--
3. Ambient temperature (°C)	:	29	--
4. Flue gas temperature (°C)	:	80	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	7.81	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	43,299	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	35,812	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	16.39	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



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-01-2025

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 - 2
Date of Sampling : 22-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 29	--
4. Flue gas temperature (°C)	: 44	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.44	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 47,995	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 44,588	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 15.86	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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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-01-2025

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 : 22-01-2025
Date of Analysis : 24-01-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 27	--
4. Flue gas temperature (°C)	: 46	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.85	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 54,477	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 49,969	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 17.98	30	IS-11255 (Part-1); 2019
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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: 31-01-2025


WASTE WATER ANALYSIS

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

Date of Collection : 22-01-2025
Date of Analysis : 24-01-2025
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	7.54	7.74	6.5 - 8.5
4. Total Dissolved Solids	2,115	1,346	2,100
5. Total Suspended Solids	119	12	100
6. Chemical oxygen demand	326	17	250
7. Biochemical oxygen demand (3 days at 27 °C)	17	<5.0	100
8. Oil & Grease	1.60	<1.0	10

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


AUTHORISED SIGNATORY

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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

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: 31-01-2025

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 : 22-01-2025
Date of Analysis : 24-01-2025
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)	:	<5.0	5 max	15 max
2. Turbidity (NTU)	:	<1.0	01 max	05 max
3. pH	:	7.84	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO ₃ :	21	200 max	600 max
5. Calcium	as Ca :	6.43	75 max	200 max
6. Magnesium	as Mg :	1.08	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 :	14.56	250 max	1000 max
11. Sulphate	as SO ₄ :	4.56	200 max	400 max
12. Nitrates	as NO ₃ :	1.51	45 max	No relaxation
13. Fluorides	as F :	0.12	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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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	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		:	106	500	2000
32. Total alkalinity	as CaCO ₃	:	68	200 max	600 max
33. Aluminium	as Al	:	0.007	0.3	0.2
34. Boron	as B	:	0.012	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/2025

Report Date: 31-01-2025

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	:	61.90	56.30
2. Near Gullapally Village	:	51.40	41.20
3. Near Ramachandrapuram Village	:	49.50	39.80
4. Near Mattampally Village	:	48.30	38.60
5. Near Peddaveedu Village	:	50.20	40.90

- Note:**
- Noise levels are monitored on 21-01-2025.
 - 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/2025

Report Date: 31-01-2025

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	78.40	75.20	76.80
2. Near Coal Mill - 3	81.90	78.30	80.10
3. Near VRM area	77.50	75.50	76.50
4. Near Kiln - 1	82.10	79.70	80.90
5. Near Kiln - II	81.80	78.60	80.20
6. Near WHR Boiler area	83.60	80.80	82.20
7. Near Cement Mill - 3	80.40	76.20	78.30
8. Near Packing Plant	76.30	74.10	75.20
9. Near AFR area	72.80	70.20	71.50
10. Near STP area	63.50	60.30	61.90
11. Near Limestone Reclaimer	77.40	74.80	76.10
12. Truck Parking Area	65.20	61.40	63.30
13. Captive Power Plant Boiler	84.70	82.50	83.60
14. Coal Handling Area (CPP)	75.90	72.30	74.10
15. Turbine Generator Area	82.30	78.50	80.40

- Note:** *I 1. Noise levels monitoring conducted on 22-01-2025.
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/2025

Report Date: 31-01-2025

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	: 23-01-2025	--	---
2. Date of Analysis	: 24-01-2025	--	---
3. Total time of monitoring	: 24 hr	--	---
4. Average flow rate (cum/min)	: 1.13	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 65	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 26	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)	: 0.024	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: 31-01-2025

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	23-01-2025	24-01-2025	1,354	2000 ($\mu\text{g}/\text{m}^3$)
2	Coal Yard	23-01-2025	24-01-2025	1,526	


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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-01-2025

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	:	21-01-2025	--
2. Date of analysis	:	24-01-2025	--
3. Location	:	Chimney	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature ($^{\circ}$ C)	:	29	--
7. Flue gas temperature ($^{\circ}$ C)	:	128	--
8. Exit velocity of flue gases (m/sec)	:	5.94	IS:11255 (Part-3); 2018
9. Flow rate (m^3/hr)	:	2,05,714	IS:11255 (Part-3); 2018
10. Flow rate ($N m^3/hr$)	:	1,49,554	IS:11255 (Part-3); 2018

EMISSION DATA

LIMITS

11. Particulate matter Concentration (mg/Nm^3)	:	21.40	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)	:	64.90	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 06-01-2025, DUE ON 05-01-2026


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-01-2025

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 : 22-01-2025
Date of Analysis : 23-01-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.48	6.50-8.50
2. Total dissolved solids	:	1,187	2100
3. Total Suspended solids (at 103-105 °C)	:	20	100
4. Chemical oxygen demand	:	48.30	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	4.50	30
6. Chlorides as Cl	:	210.80	600
7. Sulphates as SO ₄	:	27.10	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.10	NS
10. Free available chlorine as Cl ₂	:	0.24	0.50
11. Copper as Cu	:	0.06	1.0
12. Iron as Fe	:	0.16	1.0
13. Phosphate as P	:	0.18	5.0
14. Zinc as Zn	:	0.08	1.0
15. Chromium as Cr	:	0.015	0.20

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

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TEST REPORT

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Report Date: 31-01-2025

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 : 22-01-2025
Date of Analysis : 23-01-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.62	6.50-8.50
2. Total dissolved solids	:	1,075	2100
3. Total Suspended solids (at 103-105 °C)	:	09	100
4. Chemical oxygen demand	:	21.70	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	178.30	600
7. Sulphates as SO ₄	:	19.50	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.22	NS
10. Free available chlorine as Cl ₂	:	0.20	0.50
11. Copper as Cu	:	0.11	1.0
12. Iron as Fe	:	0.17	1.0
13. Phosphate as P	:	0.27	5.0
14. Zinc as Zn	:	0.010	1.0
15. Chromium as Cr	:	0.012	0.20

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

AUTHORISED SIGNATORY