



# SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/025

Date: 11.06.2025

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 **May - 2025** are enclosed.

Please acknowledge receipt of the same.

Thank you

Yours Sincerely,  
For SAGAR CEMENTS LIMITED,

*M.V.R. Murthy*

*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]

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ISO 9001, 14001 & 45001  
Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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	:	13-5-2025	13-5-2025	--	---
2. Date of Analysis	:	15-5-2025	15-5-2025	--	---
3. Total time of monitoring	:	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	:	1.10	1.08	--	---
5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>	:	52.95	57.46	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub>	:	21.77	25.38	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	:	11.70	9.50	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	:	22.90	18.20	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m <sup>3</sup> ):	:	0.015	0.018	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: 22-5-2025

### 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	13-5-2025	13-5-2025	--	---
2. Date of Analysis	15-5-2025	15-5-2025	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	1.15	1.06	--	---
5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>	46.72	54.65	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub>	18.56	24.88	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	7.50	10.20	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	17.40	20.10	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m <sup>3</sup> ):	0.010	0.006	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

**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: 22-5-2025

### 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	13-5-2025	--	---
2. Date of Analysis	15-5-2025	--	---
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 <sub>10</sub>	67.24	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub>	28.51	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	12.90	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	25.80	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m <sup>3</sup> )	0.032	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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## TEST REPORT

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Report Date: 22-5-2025

### 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	14-5-2025	15-5-2025	1,176	2000 ( $\mu\text{g}/\text{m}^3$ )
2	VRM	14-5-2025	15-5-2025	1,538	
3	Packing Plant	14-5-2025	15-5-2025	1,621	
4	Crusher	14-5-2025	15-5-2025	1,697	
5	Lime Stone Stacker Reclaimer	14-5-2025	15-5-2025	1,360	
6	Coal Mill	15-5-2025	15-5-2025	1,824	
7	Raw Mill Area	15-5-2025	15-5-2025	1,476	
8	Truck Parking Area	15-5-2025	15-5-2025	1,402	
9	Coal Mill - 2	15-5-2025	15-5-2025	1,594	
10	Iron Ore Yard	15-5-2025	15-5-2025	1,486	

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: 22-5-2025

### 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 : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 42	--
4. Flue gas temperature (°C)	: 102	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.73	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 7,58,268	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 5,90,691	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMITS

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 16.50	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 1.40	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No <sub>2</sub> ) Concentration (mg/N m <sup>3</sup> )	: 328	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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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 Limestone Crusher  
Date of Sampling : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 36	--
4. Flue gas temperature (°C)	: 43	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.01	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 55,495	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 51,444	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 10.90	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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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 - 1  
Date of Sampling : 13-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 0.80	--
2. Stack cross sectional area (sq m)	: 0.502	--
3. Ambient temperature (°C)	: 39	--
4. Flue gas temperature (°C)	: 78	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.37	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 16,933	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 14,105	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 19.20	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: 22-5-2025

### 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 : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 39	--
4. Flue gas temperature (°C)	: 72	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.12	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 49,304	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 46,346	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 19.80	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: 22-5-2025

### 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 - 3  
Date of Sampling : 13-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 40	--
4. Flue gas temperature (°C)	: 70	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.52	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 66,655	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 62,322	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m<sup>3</sup>) : 18.40 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

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 Klin-2 Cooler ESP  
Date of Sampling : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 42	--
4. Flue gas temperature (°C)	: 119	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.69	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 3,54,761	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 3,29,928	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m<sup>3</sup>) : 16.46 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

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 - 3  
Date of Sampling : 13-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 39	--
4. Flue gas temperature (°C)	: 85	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 7.87	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 43,631	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 40,970	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

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

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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 Kiln – 1 Cooler ESP  
Date of Sampling : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 2.25	--
2. Stack cross sectional area (sq m)	: 3.97	--
3. Ambient temperature (°C)	: 42	--
4. Flue gas temperature (°C)	: 120	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.75	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 1,67,931	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 1,56,176	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 18.30	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



# LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 40	--
4. Flue gas temperature (°C)	: 82	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.56	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 47,457	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 44,372	IS-11255 (Part-3); 2018
8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 14.72	30 IS-11255 (Part-1); 2019

### EMISSION DATA

### LIMIT

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: 22-5-2025

### 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 - 4  
Date of Sampling : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 36	--
4. Flue gas temperature (°C)	: 45	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.94	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 50,293	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 47,678	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m<sup>3</sup>) : 23.10 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: 22-5-2025

### 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 : 14-5-2025  
Date of Analysis : 15-5-2025

### PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 41	--
4. Flue gas temperature (°C)	: 46	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.78	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 54,155	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 50,418	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m<sup>3</sup>) : 20.74 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: 22-5-2025

### WASTE WATER ANALYSIS

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

Date of Collection : 15-5-2025  
Date of Analysis : 16-5-2025  
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	7.32	7.65	6.5 - 8.5
4. Total Dissolved Solids	1,801	1,684	2,100
5. Total Suspended Solids	92	17	100
6. Chemical oxygen demand	216	40	250
7. Biochemical oxygen demand (3 days at 27 °C)	79	07	100
8. Oil & Grease	1.50	<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: 22-5-2025

### 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 : 15-5-2025  
Date of Analysis : 16-5-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> 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	: 7.69	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO <sub>3</sub> : 67	200 max	600 max
5. Calcium	as Ca : 15.33	75 max	200 max
6. Magnesium	as Mg : 6.94	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 : 39.20	250 max	1000 max
11. Sulphate	as SO <sub>4</sub> : 11.34	200 max	400 max
12. Nitrates	as NO <sub>3</sub> : 2.91	45 max	No relaxation
13. Fluorides	as F : <0.20	1.0 max	1.5 max
14. Phenol Compunds	as C <sub>6</sub> H <sub>5</sub> 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		:	139	500 max	2000 max
32. Total alkalinity	as CaCO <sub>3</sub>	:	89	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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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	:	63.20	57.10
2. Near Gullapally Village	:	52.30	41.50
3. Near Ramachandrapuram Village	:	49.50	38.70
4. Near Mattampally Village	:	51.70	40.60
5. Near Peddaveedu Village	:	53.20	42.50

- Note:**
- Noise levels are monitored on 14-5-2025.
  - 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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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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	81.30	76.50	78.90
2. Near Coal Mill - 3	78.40	73.20	75.80
3. Near VRM area	80.10	75.70	77.90
4. Near Kiln - 1	82.60	78.40	80.50
5. Near Kiln - II	83.90	76.10	80.00
6. Near WHR Boiler area	85.30	80.50	82.90
7. Near Cement Mill - 3	77.80	72.60	75.20
8. Near Packing Plant	76.40	71.20	73.80
9. Near AFR area	75.60	70.80	73.20
10. Near STP area	70.30	65.10	67.70
11. Near Limestone Reclaimer	72.60	67.40	70.00
12. Truck Parking Area	68.50	63.10	65.80
13. Captive Power Plant Boiler	82.20	78.20	80.20
14. Coal Handling Area (CPP)	78.60	73.20	75.90
15. Turbine Generator Area	84.80	79.40	82.10

- Note:** \*I 1. Noise levels monitoring conducted on 14-5-2025.  
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)

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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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	12-5-2025	--	---
2. Date of Analysis	15-5-2025	--	---
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 <sub>10</sub>	69.42	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub>	27.56	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	13.70	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	25.60	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration ( $\text{mg}/\text{m}^3$ )	0.032	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: 22-5-2025

### 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	12-5-2025	15-5-2025	1,678	2000 ( $\mu\text{g}/\text{m}^3$ )
2	Coal Yard	12-5-2025	15-5-2025	1,742	

  
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: 22-5-2025

### 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	: 13-5-2025	--
2. Date of analysis	: 15-5-2025	--
3. Location	: <b>Chimney</b>	--
4. Stack diameter (m)	: 3.50	--
5. Stack cross sectional area (sq m)	: 9.62	--
6. Ambient temperature ( $^{\circ}$ C)	: 42	--
7. Flue gas temperature ( $^{\circ}$ C)	: 129	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	: 5.91	IS:11255 (Part-3); 2018
9. Flow rate ( $m^3/hr$ )	: 2,04,675	IS:11255 (Part-3); 2018
10. Flow rate ( $N m^3/hr$ )	: 1,90,348	IS:11255 (Part-3); 2018

### EMISSION DATA

### LIMITS

11. Particulate matter Concentration ( $mg/Nm^3$ )	: 20.40	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration ( $mg/Nm^3$ )	: 40.10	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: 22-5-2025

### 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 : 15-5-2025  
Date of Analysis : 16-5-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

1. pH	:	7.49	6.50-8.50
2. Total dissolved solids	:	1,581	2100
3. Total Suspended solids (at 103-105 °C)	:	54	100
4. Chemical oxygen demand	:	87.40	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	14.10	30
6. Chlorides as Cl	:	449	600
7. Sulphates as SO <sub>4</sub>	:	159	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.40	NS
10. Free available chlorine as Cl <sub>2</sub>	:	<0.20	0.50
11. Copper as Cu	:	0.10	1.0
12. Iron as Fe	:	0.42	1.0
13. Phosphate as P	:	0.81	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.

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 22-5-2025

### 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 : 15-5-2025  
Date of Analysis : 16-5-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

1. pH	:	7.69	6.50-8.50
2. Total dissolved solids	:	962	2100
3. Total Suspended solids (at 103-105 °C)	:	32	100
4. Chemical oxygen demand	:	42.90	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	295.70	600
7. Sulphates as SO <sub>4</sub>	:	72.80	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.10	NS
10. Free available chlorine as Cl <sub>2</sub>	:	<0.20	0.50
11. Copper as Cu	:	0.06	1.0
12. Iron as Fe	:	0.20	1.0
13. Phosphate as P	:	0.52	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