



# SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/074

Date: 13.11.2025

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 **October - 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/001/2025

Report Date: 25-10-2025

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address	: <b>M/s. SAGAR CEMENTS LIMITED,</b> Mattampally (Post & Mandal), Suryapet (Dist) - 508 204.			
Location	: Mattampally Village	: Pedaveedu Village	<b>LIMIT</b>	<b>PROTOCOL</b>
1. Date of sampling	: 16-10-2025	: 16-10-2025	--	---
2. Date of Analysis	: 18-10-2025	: 18-10-2025	--	---
3. Total time of monitoring	: 24 hr	: 24 hr	--	---
4. Average flow rate (cum/m)	: 1.08	: 1.11	--	---
5. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>10</sub>	: 56.10	: 60.25	<100	IS:5182 (Part-23); 2017
6. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>2.5</sub>	: 22.10	: 24.36	<60	IS:5182 (Part-24); 2019
7. Sulphur Dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 8.30	: 10.60	<80	IS:5182 (Part-2); 2018
8. Nitrogen Dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 19.10	: 22.40	<80	IS:5182 (Part-6); 2017
9. Lead (Pb) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 0.18	: 0.15	<1.0	IS:5182 (Part-22); 2019
10. Carbon monoxide (CO) Concentration (mg/m <sup>3</sup> )	: 0.017	: 0.011	<2.0	IS:5182 (Part-10); 2019
11. Ammonia (NH <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 21	: 34	<400	IS:5182 (Part-25); 2018
12. Ozone (O <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 10	: 14	<100	IS:5182 (Part-9); 2019
13. Benzene (C <sub>6</sub> H <sub>6</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: <0.02	: <0.02	<05	IS:5182 (Part-11); 2017
14. Arsenic (As) Concentration (ng/m <sup>3</sup> )	: ND	: ND	<06	NAAQMS/ 36/2012-13
15. Nickel (Ni) Concentration (ng/m <sup>3</sup> )	: ND	: ND	<20	IS:5182 (Part-26); 2020
16. Benzo pyrene (Bap) Particulate phase Concentration (ng/m <sup>3</sup> )	: ND	: ND	<01	NAAQMS/ 36/2012-13

*Amadh*  
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

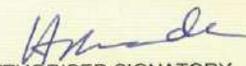
REF.NO: LAWN/SCL-P/002/2025

Report Date: 25-10-2025

### 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
1. Date of sampling	16-10-2025	16-10-2025	--	---
2. Date of Analysis	18-10-2025	18-10-2025	--	---
3. Total time of monitoring	24 hr	24 hr	--	---
4. Average flow rate (cum/m)	1.07	1.14	--	---
5. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>10</sub>	51.38	54.32	<100	IS:5182 (Part-23); 2017
6. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>2.5</sub>	19.50	22.04	<60	IS:5182 (Part-24); 2019
7. Sulphur Dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	9.30	11.50	<80	IS:5182 (Part-2); 2018
8. Nitrogen Dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	17.10	24.80	<80	IS:5182 (Part-6); 2017
9. Lead (Pb) Concentration ( $\mu\text{g}/\text{m}^3$ )	0.18	0.14	<1.0	IS:5182 (Part-22); 2019
10. Carbon monoxide (CO) Concentration (mg/m <sup>3</sup> )	0.010	0.006	<2.0	IS:5182 (Part-10); 2019
11. Ammonia (NH <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	26	30	<400	IS:5182 (Part-25); 2018
12. Ozone (O <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	07	04	<100	IS:5182 (Part-9); 2019
13. Benzene (C <sub>6</sub> H <sub>6</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	<0.02	<0.02	<05	IS:5182 (Part-11); 2017
14. Arsenic (As) Concentration (ng/m <sup>3</sup> )	ND	ND	<06	NAAQMS/ 36/2012-13
15. Nickel (Ni) Concentration (ng/m <sup>3</sup> )	ND	ND	<20	IS:5182 (Part-26); 2020
16. Benzo pyrene (Bap) Particulate phase Concentration (ng/m <sup>3</sup> )	ND	ND	<01	NAAQMS/ 36/2012-13

  
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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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## TEST REPORT

REF.NO: LAWN/SCL-P/003/2025

Report Date: 25-10-2025

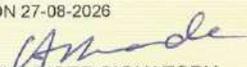
### AMBIENT AIR QUALITY DATA

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

Location	Plant Main gate	LIMIT	PROTOCOL
1. Date of sampling	: 16-10-2025	--	---
1. Date of Analysis	: 18-10-2025	--	---
2. Total time of monitoring	: 24 hr	--	---
3. Average flow rate (cum/m)	: 1.05	--	---
4. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>10</sub>	: 64.31	<100	IS:5182 (Part-23); 2017
5. Particulate Matter Concentration ( $\mu\text{g}/\text{m}^3$ )-PM <sub>2.5</sub>	: 26.22	<60	IS:5182 (Part-24); 2019
6. Sulphur Dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 13.30	<80	IS:5182 (Part-2); 2018
7. Nitrogen Dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 27.20	<80	IS:5182 (Part-6); 2017
8. Lead (Pb) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 0.22	<1.0	IS:5182 (Part-22); 2019
9. Carbon monoxide (CO) Concentration ( $\text{mg}/\text{m}^3$ )	: 0.034	<2.0	IS:5182 (Part-10); 2019
10. Ammonia (NH <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 29	<400	IS:5182 (Part-25); 2018
11. Ozone (O <sub>3</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 13	<100	IS:5182 (Part-9); 2019
12. Benzene (C <sub>6</sub> H <sub>6</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: <0.02	<05	IS:5182 (Part-11); 2017
13. Arsenic (As) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<06	NAAQMS/ 36/2012-13
14. Nickel (Ni) Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<20	IS:5182 (Part-26); 2020
15. Benzo pyrene (Bap) Particulate phase Concentration ( $\text{ng}/\text{m}^3$ )	: ND	<01	NAAQMS/ 36/2012-13

Note : ND - Not Detected

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 28-08-2025,DUE ON 27-08-2026

  
AUTHORISED SIGNATORY



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## TEST REPORT

REF.NO: LAWN/SCL-P/004/2025

Report Date: 25-10-2025

### 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	15-10-2025	18-10-2025	947	2000 ( $\mu\text{g}/\text{m}^3$ )
2	VRM	15-10-2025	18-10-2025	1,142	
3	Packing Plant	15-10-2025	18-10-2025	1,420	
4	Crusher	15-10-2025	18-10-2025	1,508	
5	Lime Stone Stacker Reclaimer	15-10-2025	18-10-2025	1,052	
6	Coal Mill	17-10-2025	18-10-2025	1,438	
7	Raw Mill Area	17-10-2025	18-10-2025	1,240	
8	Truck Parking Area	17-10-2025	18-10-2025	1,052	
9	Coal Mill - 2	17-10-2025	18-10-2025	1,184	
10	Iron Ore Yard	17-10-2025	28-10-2025	1,036	

  
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. 2481-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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## TEST REPORT

REF.NO: LAWN/SCL-P/005/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025

### PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 35	--
4. Flue gas temperature (°C)	: 138	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.59	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 8,19,042	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 5,83,977	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMITS

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 15.50	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 3.10	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No <sub>2</sub> ) Concentration (mg/N m <sup>3</sup> )	: 358	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/006/2025

Report Date: 25-10-2025

### 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 : 16-10-2025  
Date of Analysis : 18-10-2025

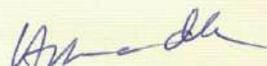
### PROTOCOL

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)	: 45	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.72	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 53,888	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 49,577	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 16.50	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/007/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025

### PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 33	--
4. Flue gas temperature (°C)	: 70	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.25	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 49,833	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 42,607	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 20.50	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/008/2025

Report Date: 25-10-2025

### 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 : 16-10-2025  
Date of Analysis : 18-10-2025

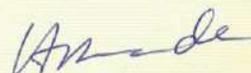
### PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 34	--
4. Flue gas temperature (°C)	: 72	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.89	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 75,335	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 63,959	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m<sup>3</sup>) : 18.50      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/009/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025

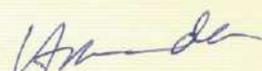
### PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 38	--
4. Flue gas temperature (°C)	: 135	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 6.94	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 2,83,319	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 2,03,706	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 15.04	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/010/2025

Report Date: 25-10-2025

### 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-2  
Date of Sampling : 16-10-2025  
Date of Analysis : 18-10-2025

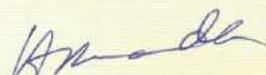
### PROTOCOL

1. Stack diameter (m)	: 0.90	--
2. Stack cross sectional area (sq m)	: 0.636	--
3. Ambient temperature (°C)	: 35	--
4. Flue gas temperature (°C)	: 82	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.26	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 23,491	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 19,380	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 17.30	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

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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/011/2025

Report Date: 25-10-2025

### 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 : 16-10-2025  
Date of Analysis : 18-10-2025

### 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)	: 80	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.51	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 52,723	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 43,760	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

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

REF.NO: LAWN/SCL-P/012/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025

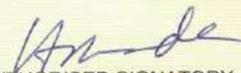
### PROTOCOL

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)	: 43	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.59	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 53,282	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 49,392	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 18.46	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/013/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025

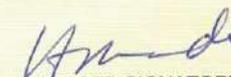
### PROTOCOL

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)	: 11.05	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 50,799	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 47,243	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

8. Particulate matter Concentration (mg/N m <sup>3</sup> )	: 21.40	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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## TEST REPORT

REF.NO: LAWN/SCL-P/014/2025

Report Date: 25-10-2025

### 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 320 KVA D.G Set (Up to 800 kW)  
Date of Sampling : 17-10-2025  
Date of Analysis : 18-10-2025

### PROTOCOL

1. Stack diameter (m)	: 0.20	--
2. Stack cross sectional area (sq m)	: 0.0314	--
3. Ambient temperature (°C)	: 41	--
4. Flue gas temperature (°C)	: 225	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 16.47	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 1,862	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 1,093	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

7. Particulate matter Concentration (g/kw-hr)	: 0.07	≤0.2	IS-11255 (Part-1); 2019
8. Oxides of Nitrogen + Hydrocarbons: Concentration (g/kw-hr)	: 2.16	≤4.0	IS-11255 & USEPA (Part-7); 2017
9. Carbon Monoxide Concentration (g/kw-hr)	: 0.26	≤3.5	USEPA

  
AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/Sl. 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/015/2025

Report Date: 25-10-2025

### 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 1250 KVA D.G Set – 1(More than 800 kW)  
Date of Sampling : 16-10-2025  
Date of Analysis : 18-10-2025

### PROTOCOL

1. Stack diameter (m)	: 0.35	--
2. Stack cross sectional area (sq m)	: 0.096	--
3. Ambient temperature (°C)	: 43	--
4. Flue gas temperature (°C)	: 264	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 17.88	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 6,179	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 3,355	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

7. Suspended Particulate matter Concentration (mg/N m <sup>3</sup> )	: 67	<75	IS-11255 (Part-1); 2019
8. Oxides of nitrogen Concentration (ppmv)	: 264	<710	IS-11255 (Part-7); 2017
9. Carbonmonoxide Concentration (mg/Nm <sup>3</sup> )	: 45	<150	USEPA
10. Non-methane Hydrocarbons (as C): Concentration (mg/Nm <sup>3</sup> )	: 10	<100	USEPA

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STACK MONITORING KIT : MODEL NO: APM-160/SL 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/016/2025

Report Date: 25-10-2025

### 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 1250 KVA D.G Set – 2 (More than 800 kW)  
Date of Sampling : 16-10-2025  
Date of Analysis : 18-10-2025

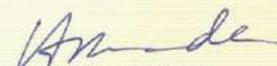
### PROTOCOL

1. Stack diameter (m)	: 0.35	--
2. Stack cross sectional area (sq m)	: 0.096	--
3. Ambient temperature (°C)	: 45	--
4. Flue gas temperature (°C)	: 275	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 17.04	IS-11255 (Part-3); 2018
6. Flow rate (m <sup>3</sup> /hr)	: 5,889	IS-11255 (Part-3); 2018
7. Flow rate (N m <sup>3</sup> /hr)	: 3,133	IS-11255 (Part-3); 2018

### EMISSION DATA

### LIMIT

7. Suspended Particulate matter Concentration (mg/N m <sup>3</sup> )	: 71	<75	IS-11255 (Part-1); 2019
8. Oxides of nitrogen Concentration (ppmv)	: 274	<710	IS-11255 (Part-7); 2017
9. Carbonmonoxide Concentration (mg/Nm <sup>3</sup> )	: 54	<150	USEPA
10. Non-methane Hydrocarbons (as C): Concentration (mg/Nm <sup>3</sup> )	: 12	<100	USEPA

  
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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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/017/2025

Report Date: 25-10-2025

### WASTE WATER ANALYSIS

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

Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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	7.41	7.84	6.5 - 8.5
4. Total Dissolved Solids	1,689	1,557	2,100
5. Total Suspended Solids	74	15	100
6. Chemical oxygen demand	182	36	250
7. Biochemical oxygen demand (3 days at 27 °C)	67	06	100
8. Oil & Grease	2.20	<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/018/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025  
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	: 7.75	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO <sub>3</sub> : 113	200 max	600 max
5. Calcium	as Ca : 25.78	75 max	200 max
6. Magnesium	as Mg : 11.66	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 : 65.97	250 max	1000 max
11. Sulphate	as SO <sub>4</sub> : 19.07	200 max	400 max
12. Nitrates	as NO <sub>3</sub> : 4.87	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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Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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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		:	234	500 max	2000 max
32. Total alkalinity	as CaCO <sub>3</sub>	:	149	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/019/2025

Report Date: 25-10-2025

### WATER ANALYSIS

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

Sample Particular : Plant Borewell Water  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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. Conductivity (micromhos/cm)	:	804	NS	NS
3. Total Dissolved Solids	:	476	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.28	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO <sub>4</sub>	52	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	103.65	NS	NS
10. Potassium	as K	2.59	NS	NS
11. Calcium	as Ca	49	75 max	200 max
12. Magnesium	as Mg	10.53	30 max	100 max
13. Total Hardness	as CaCO <sub>3</sub>	166	200 max	600 max
14. Chloride	as Cl	137	250 max	1000 max
15. Fluoride	as F	0.43	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO <sub>3</sub>	14	45 max	No relaxation
17. Total Alkalinity	as CaCO <sub>3</sub>	137	200 max	600 max
18. Acidity	as CaCO <sub>3</sub>	08	NS	NS

Contd.....

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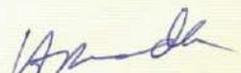
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## TEST REPORT

:2:

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Total Iron	as Fe	:	0.22	0.3 max	No relaxation
20. Nickel	as Ni	:	<0.01	0.2 max	No relaxation
21. Manganese	as Mn	:	<0.01	0.1 max	0.3 max
22. Copper	as Cu	:	0.10	0.05 max	1.5 max
23. Zinc	as Zn	:	0.19	5.0 max	15 max
24. Lead	as Pb	:	<0.01	0.01 max	No relaxation
25. Arsenic	as As	:	<0.01	0.01 max	0.05 max
26. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003 max	No relaxation
28. Total Coliform Count		:	Absent	Should Be Not Detected	Should Be Not Detected
29. Escherichia Coli Count		:	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/020/2025

Report Date: 25-10-2025

### WATER ANALYSIS

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

Sample Particular : Borewell (Gundlapally Village)  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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. Conductivity (micromhos/cm)	:	1,025	NS	NS
3. Total Dissolved Solids	:	621	500	2000
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.41	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO <sub>4</sub>	66	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	132.99	NS	NS
10. Potassium	as K	3.31	NS	NS
11. Calcium	as Ca	65	75 max	200 max
12. Magnesium	as Mg	12.31	30 max	100 max
13. Total Hardness	as CaCO <sub>3</sub>	213	200 max	600 max
14. Chloride	as Cl	175	250 max	1000 max
15. Fluoride	as F	0.41	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO <sub>3</sub>	18.52	45 max	No relaxation
17. Total Alkalinity	as CaCO <sub>3</sub>	176	200 max	600 max
18. Acidity	as CaCO <sub>3</sub>	22	NS	NS

Contd.....

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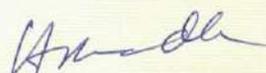
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## TEST REPORT

:2:

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Total Iron	as Fe	:	0.14	0.3 max	No relaxation
20. Nickel	as Ni	:	<0.01	0.2 max	No relaxation
21. Manganese	as Mn	:	<0.01	0.1 max	0.3 max
22. Copper	as Cu	:	0.11	0.05 max	1.5 max
23. Zinc	as Zn	:	0.27	5.0 max	15 max
24. Lead	as Pb	:	<0.01	0.01 max	No relaxation
25. Arsenic	as As	:	<0.01	0.01 max	0.05 max
26. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003 max	No relaxation
28. Total Coliform Count		:	Absent	Should Be Not Detected	Should Be Not Detected
29. Escherichia Coli Count		:	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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[Environmental Engineers & Consultants in Pollution Control]

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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/021/2025

Report Date: 25-10-2025

### WATER ANALYSIS

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

Sample Particular : Borewell (Pedaveedu Village)  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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. Conductivity (micromhos/cm)	:	788	NS	NS
3. Total Dissolved Solids	:	472	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.41	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO <sub>4</sub>	51.39	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	69.88	NS	NS
10. Potassium	as K	4.32	NS	NS
11. Calcium	as Ca	72	75 max	200 max
12. Magnesium	as Mg	14.20	30 max	100 max
13. Total Hardness	as CaCO <sub>3</sub>	239	200 max	600 max
14. Chloride	as Cl	136.83	250 max	1000 max
15. Fluoride	as F	0.37	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO <sub>3</sub>	14.48	45 max	No relaxation
17. Total Alkalinity	as CaCO <sub>3</sub>	138	200 max	600 max
18. Acidity	as CaCO <sub>3</sub>	10	NS	NS

Contd.....

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**Branch Office :** H.NO: 31-43-4/1, LIG-57, 2nd Floor, Vuda Phase-2, Dwarakapuri Colony, Kurmannapalem, Visakhapatnam-530046. A.P., Mobile : 9701505182.

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## TEST REPORT

:2:

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Total Iron	as Fe	:	0.16	0.3 max	No relaxation
20. Nickel	as Ni	:	<0.01	0.2 max	No relaxation
21. Manganese	as Mn	:	<0.01	0.1 max	0.3 max
22. Copper	as Cu	:	0.13	0.05 max	1.5 max
23. Zinc	as Zn	:	0.30	5.0 max	15 max
24. Lead	as Pb	:	<0.01	0.01 max	No relaxation
25. Arsenic	as As	:	<0.01	0.01 max	0.05 max
26. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003 max	No relaxation
28. Total Coliform Count		:	Absent	Should Be Not Detected	Should Be Not Detected
29. Escherichia Coli Count		:	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/022/2025

Report Date: 25-10-2025

### WATER ANALYSIS

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

Sample Particular : Borewell (Mattampalli Village)  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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)	:	<5.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	1,033	NS	NS
3. Total Dissolved Solids	:	630	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.51	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO <sub>4</sub>	67.20	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	135.99	NS	NS
10. Potassium	as K	3.40	NS	NS
11. Calcium	as Ca	58	75 max	200 max
12. Magnesium	as Mg	17.98	30 max	100 max
13. Total Hardness	as CaCO <sub>3</sub>	217.80	200 max	600 max
14. Chloride	as Cl	178.98	250 max	1000 max
15. Fluoride	as F	0.37	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO <sub>3</sub>	20	45 max	No relaxation
17. Total Alkalinity	as CaCO <sub>3</sub>	180	200 max	600 max
18. Acidity	as CaCO <sub>3</sub>	15	NS	NS

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. Total Iron	as Fe	:	0.16	0.3 max	No relaxation
20. Nickel	as Ni	:	<0.01	0.2 max	No relaxation
21. Manganese	as Mn	:	<0.01	0.1 max	0.3 max
22. Copper	as Cu	:	0.06	0.05 max	1.5 max
23. Zinc	as Zn	:	0.22	5.0 max	15 max
24. Lead	as Pb	:	<0.01	0.01 max	No relaxation
25. Arsenic	as As	:	<0.01	0.01 max	0.05 max
26. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003 max	No relaxation
28. Total Coliform Count		:	Absent	Should Be Not Detected	Should Be Not Detected
29. Escherichia Coli Count		:	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/023/2025

Report Date: 25-10-2025

### WATER ANALYSIS

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

Sample Particular : Borewell Water (Ramachandrapuram Village)  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
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. Conductivity (micromhos/cm)	:	673	NS	NS
3. Total Dissolved Solids	:	584	500	2000
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.42	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO <sub>4</sub>	43.45	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	87.78	NS	NS
10. Potassium	as K	2.03	NS	NS
11. Calcium	as Ca	38	75 max	200 max
12. Magnesium	as Mg	11.07	30 max	100 max
13. Total Hardness	as CaCO <sub>3</sub>	141	200 max	600 max
14. Chloride	as Cl	116	250 max	1000 max
15. Fluoride	as F	0.32	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO <sub>3</sub>	12	45 max	No relaxation
17. Total Alkalinity	as CaCO <sub>3</sub>	116	200 max	600 max
18. Acidity	as CaCO <sub>3</sub>	06	NS	NS

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. Total Iron	as Fe	:	0.15	0.3 max	No relaxation
20. Nickel	as Ni	:	<0.01	0.2 max	No relaxation
21. Manganese	as Mn	:	<0.01	0.1 max	0.3 max
22. Copper	as Cu	:	0.07	0.05 max	1.5 max
23. Zinc	as Zn	:	0.17	5.0 max	15 max
24. Lead	as Pb	:	<0.01	0.01 max	No relaxation
25. Arsenic	as As	:	<0.01	0.01 max	0.05 max
26. Chromium	as Cr	:	<0.01	0.05 max	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003 max	No relaxation
28. Total Coliform Count		:	Absent	Should Be Not Detected	Should Be Not Detected
29. Escherichia Coli Count		:	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/024/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

As per IS: 2296  
Standards Section-C

1. pH	:	7.26	8.5
2. Dissolved oxygen	:	5.30	>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 <sub>6</sub> H <sub>5</sub> 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	:	120	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/025/2025

Report Date: 25-10-2025

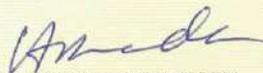
### WATER ANALYSIS

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 : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	:	7.69	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	:	0.26	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 <sub>6</sub> H <sub>5</sub> 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	:	126	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/026/2025

Report Date: 25-10-2025

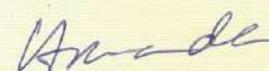
### WATER ANALYSIS

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 : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	: 7.74		8.5
2. Dissolved oxygen	: 5.60		>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	: <5.0		3.0
4. Fluorides as F	: 0.24		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 <sub>6</sub> H <sub>5</sub> 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	: 136		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/027/2025

Report Date: 25-10-2025

### 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 : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	: 7.42		8.5
2. Dissolved oxygen	: 5.90		>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 <sub>6</sub> H <sub>5</sub> 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	: 144		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/028/2025

Report Date: 25-10-2025

### 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	:	64.10	59.50
2. Near Gullapally Village	:	47.30	38.50
3. Near Ramachandrapuram Village	:	46.80	36.70
4. Near Mattampally Village	:	48.70	39.20
5. Near Peddaveedu Village	:	50.60	41.40

- Note:**
1. Noise levels are monitored on 17-10-2025.
  2. Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
  3. Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A) – As per NAAQ
  4. 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/029/2025

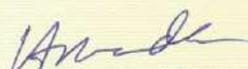
Report Date: 25-10-2025

### AMBIENT NOISE LEVEL DATA (Day Time & Night Time)

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

Hours (Time)	Plant Main Gate	Peddaveedu Village	Mattampally Village
12.00 pm	66.20	50.80	47.80
1.00 pm	67.30	50.40	48.40
2.00 pm	67.10	48.30	48.80
3.00 pm	66.40	48.10	47.30
4.00 pm	65.20	47.30	47.50
5.00 pm	63.10	46.20	46.10
6.00 pm	63.90	45.50	46.60
7.00 pm	61.70	45.10	45.40
8.00 pm	60.40	44.30	45.20
9.00 pm	59.30	44.90	43.40
10.00 pm	57.40	43.10	42.60
11.00 pm	59.70	39.30	39.10
12.00 am	60.40	39.40	38.70
1.00 am	61.30	40.70	38.30
2.00 am	58.50	41.20	37.20
3.00 am	57.30	41.90	37.60
4.00 am	56.80	39.50	36.40
5.00 am	54.30	38.10	36.10
6.00 am	62.60	48.20	47.10
7.00 am	63.40	48.30	47.50
8.00 am	63.90	49.10	46.30
9.00 am	64.10	49.50	46.90
10.00 am	64.80	49.90	46.10
11.00 am	65.70	50.20	47.30
<b>Min</b>	<b>54.30</b>	<b>38.10</b>	<b>36.10</b>
<b>Max</b>	<b>67.30</b>	<b>50.80</b>	<b>48.80</b>
<b>Leq day</b>	<b>63.74</b>	<b>47.56</b>	<b>46.45</b>
<b>Leq Night</b>	<b>59.83</b>	<b>42.93</b>	<b>40.58</b>

- Note:**
- Noise levels are monitored on 16-10-2025 to 18-10-2025.
  - Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
  - Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/030/2025

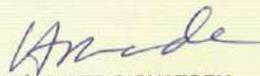
Report Date: 25-10-2025

### AMBIENT NOISE LEVEL DATA (Day Time & Night Time)

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

Hours (Time)	Ramachandrapuram Village	Gullapally Village
12.00 pm	51.90	51.70
1.00 pm	52.20	51.40
2.00 pm	52.50	51.90
3.00 pm	52.80	50.40
4.00 pm	51.40	50.10
5.00 pm	51.10	49.50
6.00 pm	50.90	49.10
7.00 pm	49.40	48.40
8.00 pm	48.20	47.30
9.00 pm	47.60	46.50
10.00 pm	45.20	45.90
11.00 pm	41.20	39.50
12.00 am	41.70	39.20
1.00 am	40.80	38.40
2.00 am	40.20	37.50
3.00 am	39.50	36.80
4.00 am	38.20	38.70
5.00 am	40.30	39.90
6.00 am	49.40	48.60
7.00 am	48.20	48.20
8.00 am	50.10	49.10
9.00 am	50.70	49.60
10.00 am	51.20	50.10
11.00 am	51.40	50.30
<b>Min</b>	<b>38.20</b>	<b>36.80</b>
<b>Max</b>	<b>52.80</b>	<b>51.90</b>
<b>Leq day</b>	<b>47.48</b>	<b>46.48</b>
<b>Leq Night</b>	<b>43.16</b>	<b>41.82</b>

- Note:**
1. Noise levels are monitored on 16-10-2025 to 18-10-2025.
  2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
  3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/031/2025

Report Date: 25-10-2025

### 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	77.50	72.30	74.90
2. Near Coal Mill - 3	81.10	76.50	78.80
3. Near VRM area	82.60	77.20	79.90
4. Near Kiln - 1	84.50	79.10	81.80
5. Near Kiln - II	83.70	78.50	81.10
6. Near WHR Boiler area	81.40	76.20	78.80
7. Near Cement Mill - 3	79.20	74.40	76.80
8. Near Packing Plant	76.60	71.20	73.90
9. Near AFR area	77.30	72.50	74.90
10. Near STP area	70.80	65.40	68.10
11. Near Limestone Reclaimer	73.10	65.70	69.40
12. Truck Parking Area	69.30	64.30	66.80
13. Captive Power Plant Boiler	80.40	75.80	78.10
14. Coal Handling Area (CPP)	75.10	70.70	72.90
15. Turbine Generator Area	81.30	77.50	79.40

- Note:** \*I 1. Noise levels monitoring conducted on 17-10-2025.  
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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**Branch Office :** H.NO: 31-43-4/1, LIG-57, 2nd Floor, Vuda Phase-2, Dwarakapuri Colony, Kurmannapalem, Visakhapatnam-530046. A.P., Mobile : 9701505182.

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## TEST REPORT

REF.NO: LAWN/SCL-P/032/2025

Report Date: 25-10-2025

### WORK ZONE NOISE QUALITY DATA (TWA)

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. Kiln Area	84.20	78.20	81.20
2. Cement Mill Area	82.50	77.30	79.90
3. Coal Mill Area	79.40	74.20	76.80
4. CPP TG Area	78.90	73.70	76.30
5. Compressor Area	81.70	76.30	79.00

- Note:** \*I 1. Noise levels monitoring conducted on 17-10-2025.  
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/033/2025

Report Date: 25-10-2025

### NOISE MONITORING (INSERTION LOSS)

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

Location	Levels in dB (A)		Insertion Loss
	Day time		
	Open	Closed	
1. 320 KVA D.G. Set :	80.30	54.90	25.40
2. 1250 KVA D.G. Set – I :	90.40	65.10	25.30
3. 1250 KVA D.G. Set – II :	92.30	67.10	25.20

**Note:** 1) Noise levels are monitored on 16-10-2025.

2) Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/034/2025

Report Date: 25-10-2025

### WORK ZONE MONITORING (HEAT STRES)

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

Date of sampling : 16-10-2025  
Sample Description : HEAT STRES INDEX °C  
Location : KILN - I AREA

S. No.	Time	Wet °C	Dry °C	Globe °C	DBGTI °C	WBGTI °C	RH%
1	9.00	26.2	24.3	35.2	43.6	34.6	42.6
2	10.00	26.8	22.9	37.3	44.2	34.9	43.8
3	11.00	27.9	25.1	37.8	44.8	35.2	44.5
4	11.40	27.8	24.6	37.9	46.3	35.8	44.8
5	12.10	28.1	23.5	38.6	48.2	36.1	43.6
6	12.40	28.9	24.8	39.4	49.5	35.9	43.1
7	1.10	29.3	25.3	38.6	48.3	34.4	42.2
8	1.50	29.8	25.8	36.4	47.6	32.6	40.8

Instrument : Heat Stress WBGT Meter

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/035/2025

Report Date: 25-10-2025

### WORK ZONE MONITORING (HEAT STRES)

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

Date of sampling : 17-10-2025

Sample Description : HEAT STRES INDEX °C

Location : KILN - II AREA

S. No.	Time	Wet °C	Dry °C	Globe °C	DBGTI °C	WBGTI °C	RH%
1	9.00	26.8	25.9	35.9	45.8	36.1	41.2
2	9.30	27.9	26.2	36.2	46.4	36.8	41.8
3	10.00	28.1	26.8	36.8	47.2	36.9	41.6
4	10.30	28.8	26.4	37.8	47.6	34.6	42.5
5	11.00	29.4	27.1	38.2	48.9	34.3	41.3
6	11.30	28.2	27.8	39.6	49.3	35.2	40.2
7	12.05	27.6	26.4	40.4	48.2	35.8	30.5
8	12.40	26.2	25.3	37.9	47.5	34.2	37.4

Instrument : Heat Stress WBGT Meter

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## TEST REPORT

REF.NO: LAWN/SCL-P/036/2025

Report Date: 25-10-2025

### WORK ZONE MONITORING (HEAT STRES)

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

Date of sampling : 17-10-2025

Sample Description : HEAT STRES INDEX °C

Location : WHR BOILER

S. No.	Time	Wet °C	Dry °C	Globe °C	DBGTI °C	WBGTI °C	RH%
1	9.30	25.4	23.4	35.9	37.1	30.2	42.2
2	10.00	26.1	23.8	35.4	37.9	30.6	41.9
3	10.30	26.5	24.2	36.2	38.3	31.4	41.5
4	11.00	25.9	24.6	36.7	38.6	31.8	42.6
5	11.30	25.2	25.1	36.5	39.2	32.2	40.8
6	12.10	26.6	24.0	35.8	39.4	32.9	39.5
7	12.40	26.9	23.7	34.2	37.6	29.5	38.2
8	1.10	23.8	22.4	34.9	36.2	28.4	37.6

Instrument : Heat Stress WBGT Meter

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/037/2025

Report Date: 25-10-2025

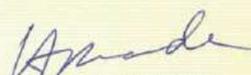
### SOIL ANALYSIS

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

Sample Particulars : Near Ramachandrapuram Village  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.46
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 464
3. Water Holding Capacity (%)	: 71
4. Bulk Density (gm/cc)	: 1.16
5. Available Nitrogen as N (kg/ha)	: 96
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 26.65
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 123
8. Phosphorus as P (Kg/Ha)	: 08
9. Organic Carbon (%)	: 0.15
10. Organic Matter (%)	: 0.26
11. Calcium as Ca (mg/kg)	: 1,188
12. Sodium as Na (mg/kg)	: 108
13. Potassium as K (mg/kg)	: 50
14. Copper as Cu (mg/kg)	: 3.18
15. Zinc as Zn (mg/kg)	: 6.79
16. Iron as Fe (mg/kg)	: 4.77
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Clay Loam</b>
a) Sand (%)	: 21.30
b) Silt (%)	: 58.20
c) Clay (%)	: 20.50

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/038/2025

Report Date: 25-10-2025

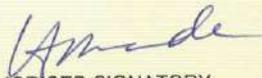
### SOIL ANALYSIS

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

Sample Particulars : Near Coal Storage Yard  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.26
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 626
3. Water Holding Capacity (%)	: 78
4. Bulk Density (gm/cc)	: 1.29
5. Available Nitrogen as N (kg/ha)	: 78
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 29.01
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 83
8. Phosphorus as P (Kg/Ha)	: 8.92
9. Organic Carbon (%)	: 0.13
10. Organic Matter (%)	: 0.22
11. Calcium as Ca (mg/kg)	: 923
12. Sodium as Na (mg/kg)	: 163
13. Potassium as K (mg/kg)	: 39
14. Copper as Cu (mg/kg)	: 4.46
15. Zinc as Zn (mg/kg)	: 8.28
16. Iron as Fe (mg/kg)	: 7.47
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Loam</b>
a) Sand (%)	: 14.20
b) Silt (%)	: 62.10
c) Clay (%)	: 23.70

Note : All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/039/2025

Report Date: 25-10-2025

### SOIL ANALYSIS

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

Sample Particulars : Gundlapally Village  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.56
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 806
3. Water Holding Capacity (%)	: 79
4. Bulk Density (gm/cc)	: 1.38
5. Available Nitrogen as N (kg/ha)	: 78
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 30.62
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 108.61
8. Phosphorus as P (Kg/Ha)	: 9.42
9. Organic Carbon (%)	: 0.11
10. Organic Matter (%)	: 0.19
11. Calcium as Ca (mg/kg)	: 931
12. Sodium as Na (mg/kg)	: 211
13. Potassium as K (mg/kg)	: 57
14. Copper as Cu (mg/kg)	: 4.40
15. Zinc as Zn (mg/kg)	: 10.80
16. Iron as Fe (mg/kg)	: 6.05
17. Manganese as Mn (mg/kg)	: <2.0
18. <b>Texture</b>	: <b>Sandy Clay loam</b>
a) Sand (%)	: 42.30
b) Silt (%)	: 37.40
c) Clay (%)	: 20.30

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/040/2025

Report Date: 25-10-2025

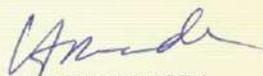
### SOIL ANALYSIS

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

Sample Particulars : Mattampally Village  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.81
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 574
3. Water Holding Capacity (%)	: 82
4. Bulk Density (gm/cc)	: 1.25
5. Available Nitrogen as N (kg/ha)	: 75
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 32.94
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 109.69
8. Phosphorus as P (Kg/Ha)	: 10.13
9. Organic Carbon (%)	: 0.18
10. Organic Matter (%)	: 0.31
11. Calcium as Ca (mg/kg)	: 1,259
12. Sodium as Na (mg/kg)	: 267
13. Potassium as K (mg/kg)	: 71
14. Copper as Cu (mg/kg)	: 7.12
15. Zinc as Zn (mg/kg)	: 11.97
16. Iron as Fe (mg/kg)	: 5.34
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Sandy Clay loam</b>
a) Sand (%)	: 46.20
b) Silt (%)	: 35.50
c) Clay (%)	: 18.30

**Note :** All the samples were collected at depth of 45cm

  
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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-P/041/2025

Report Date: 25-10-2025

### SOIL ANALYSIS

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

Sample Particulars : Near Plant Main Gate Area  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.24
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 715
3. Water Holding Capacity (%)	: 76
4. Bulk Density (gm/cc)	: 1.32
5. Available Nitrogen as N (kg/ha)	: 99.47
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 35.94
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 115.43
8. Phosphorus as P (Kg/Ha)	: 11.05
9. Organic Carbon (%)	: 0.16
10. Organic Matter (%)	: 0.28
11. Calcium as Ca (mg/kg)	: 1,076
12. Sodium as Na (mg/kg)	: 298
13. Potassium as K (mg/kg)	: 75
14. Copper as Cu (mg/kg)	: 4.93
15. Zinc as Zn (mg/kg)	: 7.50
16. Iron as Fe (mg/kg)	: 7.99
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Loam</b>
a) Sand (%)	: 26.30
b) Silt (%)	: 64.50
c) Clay (%)	: 9.20

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/042/2025

Report Date: 25-10-2025

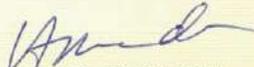
### SOIL ANALYSIS

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

Sample Particulars : West side of the Boundary  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	:	7.89
2. E.C (microsiemens/cm) (1:5 soil water extract)	:	745
3. Water Holding Capacity (%)	:	70
4. Bulk Density (gm/cc)	:	1.36
5. Available Nitrogen as N (kg/ha)	:	94.48
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	:	33.72
7. Available Potassium as K <sub>2</sub> O (kg/ha)	:	107.42
8. Phosphorus as P (Kg/Ha)	:	10.37
9. Organic Carbon (%)	:	0.12
10. Organic Matter (%)	:	0.21
11. Calcium as Ca (mg/kg)	:	990
12. Sodium as Na (mg/kg)	:	314
13. Potassium as K (mg/kg)	:	66
14. Copper as Cu (mg/kg)	:	4.70
15. Zinc as Zn (mg/kg)	:	6.56
16. Iron as Fe (mg/kg)	:	5.72
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	<b>Silty Loam</b>
a) Sand (%)	:	19.20
b) Silt (%)	:	63.50
c) Clay (%)	:	17.30

**Note :** All the samples were collected at depth of 45cm

  
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**Branch Office :** H.NO: 31-43-4/1, LIG-57, 2nd Floor, Vuda Phase-2, Dwarakapuri Colony, Kurmannapalem, Visakhapatnam-530046. A.P., Mobile : 9701505182.

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## TEST REPORT

REF.NO: LAWN/SCL-P/043/2025

Report Date: 25-10-2025

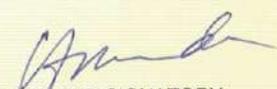
### SOIL ANALYSIS

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

Sample Particulars : Pedaveedu Village  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.45
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 605
3. Water Holding Capacity (%)	: 76
4. Bulk Density (gm/cc)	: 1.29
5. Available Nitrogen as N (kg/ha)	: 84.11
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 43.75
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 143.88
8. Phosphorus as P (Kg/Ha)	: 13.45
9. Organic Carbon (%)	: 0.20
10. Organic Matter (%)	: 0.35
11. Calcium as Ca (mg/kg)	: 995.58
12. Sodium as Na (mg/kg)	: 321
13. Potassium as K (mg/kg)	: 88
14. Copper as Cu (mg/kg)	: 5.08
15. Zinc as Zn (mg/kg)	: 8.91
16. Iron as Fe (mg/kg)	: 8.03
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Sandy Clay Loam</b>
a) Sand (%)	: 36.50
b) Silt (%)	: 49.20
c) Clay (%)	: 14.30

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/044/2025

Report Date: 25-10-2025

### SOIL ANALYSIS

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

Sample Particulars : North side of the Boundary  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 8.08
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 826
3. Water Holding Capacity (%)	: 67
4. Bulk Density (gm/cc)	: 1.25
5. Available Nitrogen as N (kg/ha)	: 63.49
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 38.93
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 109.87
8. Phosphorus as P (Kg/Ha)	: 12.38
9. Organic Carbon (%)	: 0.17
10. Organic Matter (%)	: 0.30
11. Calcium as Ca (mg/kg)	: 656
12. Sodium as Na (mg/kg)	: 650
13. Potassium as K (mg/kg)	: 255
14. Copper as Cu (mg/kg)	: 5.21
15. Zinc as Zn (mg/kg)	: 11.29
16. Iron as Fe (mg/kg)	: 8.32
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Clay Loam</b>
a) Sand (%)	: 16.30
b) Silt (%)	: 61.20
c) Clay (%)	: 22.50

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/045/2025

Report Date: 25-10-2025

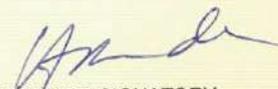
### SOIL ANALYSIS

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

Sample Particulars : East side of the Boundary  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.80
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 549
3. Water Holding Capacity (%)	: 76
4. Bulk Density (gm/cc)	: 1.38
5. Available Nitrogen as N (kg/ha)	: 67.39
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 32.69
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 102.22
8. Phosphorus as P (Kg/Ha)	: 10.05
9. Organic Carbon (%)	: 0.17
10. Organic Matter (%)	: 0.30
11. Calcium as Ca (mg/kg)	: 1,126
12. Sodium as Na (mg/kg)	: 295
13. Potassium as K (mg/kg)	: 86
14. Copper as Cu (mg/kg)	: 3.97
15. Zinc as Zn (mg/kg)	: 10.19
16. Iron as Fe (mg/kg)	: 7.57
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Clay Loam</b>
a) Sand (%)	: 13.10
b) Silt (%)	: 59.50
c) Clay (%)	: 27.40

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/046/2025

Report Date: 25-10-2025

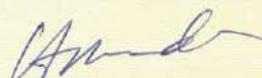
### SOIL ANALYSIS

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

Sample Particulars : South side of the Boundary  
Date of Collection : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH (1:5 Soil Water Extract)	: 7.45
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 631
3. Water Holding Capacity (%)	: 78
4. Bulk Density (gm/cc)	: 1.34
5. Available Nitrogen as N (kg/ha)	: 73.17
6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha)	: 31.29
7. Available Potassium as K <sub>2</sub> O (kg/ha)	: 106.83
8. Phosphorus as P (Kg/Ha)	: 9.62
9. Organic Carbon (%)	: 0.19
10. Organic Matter (%)	: 0.33
11. Calcium as Ca (mg/kg)	: 959
12. Sodium as Na (mg/kg)	: 285
13. Potassium as K (mg/kg)	: 78
14. Copper as Cu (mg/kg)	: 5.97
15. Zinc as Zn (mg/kg)	: 6.89
16. Iron as Fe (mg/kg)	: 9.23
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: <b>Silty Loam</b>
a) Sand (%)	: 11.20
b) Silt (%)	: 68.10
c) Clay (%)	: 20.70

**Note :** All the samples were collected at depth of 45cm

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/047/2025

Report Date: 25-10-2025

### Toxicity Characteristic Leaching Procedure (TCLP)

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

Sample Particulars : TCLP Hazardous Waste Water  
Date of Sampling : 16-10-2025  
Date of Analysis : 18-10-2025

1. pH		: 7.41
2. E.C		: 512
3. Calcium	as Ca	: 51.52
4. Magnesium	ad Mg	: 9.75
5. Total Alkalinity	as CaCO <sub>3</sub>	: 64.94
6. Chlorides	as Cl	: 64.18
7. Phosphorous	as P	: 1.29
8. Potassium	as K	: 12.13
9. Lead	as Pb	: <0.01
10. Nitrites	as NO <sub>3</sub>	: 2.36
11. Cadmium	as Cd	: <0.001
12. Zinc	as Zn	: 2.42
Total Chromium as Cr		: <0.01
13. Hexavalent Chromium as Cr <sup>+6</sup>		: <0.05
14. Selenium	as Se	: <0.001
15. Arsenic	as As	: <0.01
16. Mercury	as Hg	: <0.001
17. Nickel	as Ni	: 0.18
18. Fluoride	as F	: 0.36
19. Copper	as Cu	: 0.33
20. Aluminum	as Al	: <0.01
21. Manganese	as Mn	: <0.01
22. Iron	as Fe	: 0.30

Note: All the samples were collected at depth of 45cm

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## TEST REPORT

REF.NO: LAWN/SCL-P/001/2025

Report Date: 25-10-2025

### 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	14-10-2025	--	---
2. Date of Analysis	18-10-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.10	--	---
5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>	65.12	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub>	26.34	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	10.90	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	22.30	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m <sup>3</sup> )	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/002/2025

Report Date: 25-10-2025

### 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	14-10-2025	18-10-2025	1,538	2000 ( $\mu\text{g}/\text{m}^3$ )
2	Coal Yard	14-10-2025	18-10-2025	1,286	

  
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/003/2025

Report Date: 25-10-2025

### 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

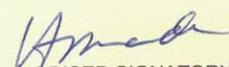
1. Date of sampling	:	16-10-2025	--
2. Date of analysis	:	18-10-2025	--
3. Location	:	<b>Chimney</b>	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature ( $^{\circ}$ C)	:	36	--
7. Flue gas temperature ( $^{\circ}$ C)	:	132	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	:	5.60	IS:11255 (Part-3); 2018
9. Flow rate (m <sup>3</sup> /hr)	:	1,93,939	IS:11255 (Part-3); 2018
10. Flow rate (N m <sup>3</sup> /hr)	:	1,40,024	IS:11255 (Part-3); 2018

### EMISSION DATA

### LIMITS

11. Particulate matter Concentration (mg/Nm <sup>3</sup> )	:	17.54	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration (mg/Nm <sup>3</sup> )	:	42.70	100	IS:11255 (Part-2); 2019
13. Oxides of nitrogen Concentration (mg/Nm <sup>3</sup> )	:	48.90	100	IS:11255 (Part-7); 2017
14. Mercury Concentration (mg/Nm <sup>3</sup> )	:	<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/004/2025

Report Date: 25-10-2025

### WASTE WATER QUALITY ANALYSIS

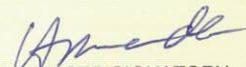
Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**  
Mattampally (Post & Mandal),  
Suryapet (Dist) - 508 204.

Sample Particulars : Captive Power Plant - 18 MW Discharge Water  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

1. pH	:	7.46	6.50-8.50
2. Total dissolved solids	:	1,452	2100
3. Total Suspended solids (at 103-105 °C)	:	34	100
4. Chemical oxygen demand	:	76.90	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	10.10	30
6. Chlorides as Cl	:	365	600
7. Sulphates as SO <sub>4</sub>	:	128	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	:	0.10	1.0
12. Iron as Fe	:	0.24	1.0
13. Phosphate as P	:	0.58	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/005/2025

Report Date: 25-10-2025

### WASTE WATER QUALITY ANALYSIS

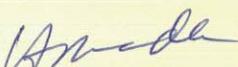
Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**  
Mattampally (Post & Mandal),  
Suryapet (Dist) - 508 204.

Sample Particulars : WHR Discharge water  
Date of Collection : 17-10-2025  
Date of Analysis : 18-10-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

1. pH	:	7.88	6.50-8.50
2. Total dissolved solids	:	960	2100
3. Total Suspended solids (at 103-105 °C)	:	32	100
4. Chemical oxygen demand	:	43.50	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	264.30	600
7. Sulphates as SO <sub>4</sub>	:	63.50	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.70	NS
10. Free available chlorine as Cl <sub>2</sub>	:	<0.20	0.50
11. Copper as Cu	:	0.08	1.0
12. Iron as Fe	:	0.16	1.0
13. Phosphate as P	:	0.40	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