



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/097

Date: 13.01.2026

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 **December - 2025** are enclosed.

Please acknowledge receipt of the same.

Thank you

Yours Sincerely,
For SAGAR CEMENTS LIMITED,

M V R Murthy

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

Enclosure: Environmental Monitoring report



Registered Office : Plot No. 111, Road No.10, Jubilee Hills, Hyderabad - 500033, Telangana State, India.

Phone : +91-40-23351571, 23351572 Fax : +91-40-23356573 E-mail : info@sagarcements.in Website : www.sagarcements.in

CIN : L26942TG1981PLC002887 GSTIN : 36AACCS8680H2ZY

Factories : Mattampally Village & Mandal, Suryapet District, Telangana State - 508204. Phone : 08683 - 247039 GSTIN : 36AACCS8680H1ZZ
Bayyavaram Village, Kasimkota Mandal, Anakapally District, Andhra Pradesh State - 531031. Phone : 08924-244550 Fax : 08924-244570 GSTIN : 37AACCS8680H1ZX
Gudipadu Village, Yadiki Mandal, Ananthapur District, Andhra Pradesh State - 515408. Phone: 08558-200272 GSTIN : 37AACCS8680H1ZX
Kalinganagar, Industrial Complex, Tahsil-Dangadi, Dist - Jajpur, Odisha. Phone : 08340882288 GSTIN : 21AACCS8680H1ZA



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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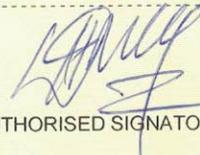
TEST REPORT

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

Report Date: 30-12-2025

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	: 18-12-2025	18-12-2025	---	---	
2. Date of Analysis	: 22-12-2025	22-12-2025	---	---	
3. Total time of monitoring	: 24 hr	24 hr	---	---	
4. Average flow rate (cum/min)	: 1.15	1.10	---	---	
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 55.40	60.28	100	IS:5182 (Part-23); 2017 Gravimetric Method	
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 21.70	25.51	60	IS:5182 (Part-24); 2019 Gravimetric Method	
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 9.30	7.40	80	IS:5182 (Part-2); 2018 New West & Gaeke Method	
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 20.80	16.20	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method	
9. CO, Concentration (mg/m ³):	0.019	0.010	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/002/2025

Report Date: 30-12-2025

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	: 18-12-2025	18-12-2025	---	---	
2. Date of Analysis	: 22-12-2025	22-12-2025	---	---	
3. Total time of monitoring	: 24 hr	24 hr	---	---	
4. Average flow rate (cum/min)	: 1.06	1.08	---	---	
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	: 52.18	58.31	100	IS:5182 (Part-23); 2017 Gravimetric Method	
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	: 19.30	23.65	60	IS:5182 (Part-24); 2019 Gravimetric Method	
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 5.40	11.70	80	IS:5182 (Part-2); 2018 New West & Gaeke Method	
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	: 15.20	22.60	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method	
9. CO, Concentration (mg/m ³):	0.012	0.016	2	IS:5182 (Part-10); 2019 CO Analyzer Method	


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2161-DTH-2011), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APS 113 BL; (SL. NO. 105-C-2017), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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TEST REPORT

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

Report Date: 30-12-2025

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	18-12-2025	---	---
2. Date of Analysis	22-12-2025	---	---
3. Total time of monitoring	24 hr	---	---
4. Average flow rate (cum/min)	1.12	---	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	65.36	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	27.91	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (So ₂) Concentration ($\mu\text{g}/\text{m}^3$)	10.80	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (No ₂) Concentration ($\mu\text{g}/\text{m}^3$)	22.60	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³)	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 28-08-2025.DUE ON 27-08-2026



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TEST REPORT

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

Report Date: 30-12-2025

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	19-12-2025	22-12-2025	921	2000 ($\mu\text{g}/\text{m}^3$)
2	VRM	19-12-2025	22-12-2025	1,130	
3	Packing Plant	19-12-2025	22-12-2025	1,198	
4	Crusher	19-12-2025	22-12-2025	1,131	
5	Lime Stone Stacker Reclaimer	19-12-2025	22-12-2025	1,032	
6	Coal Mill	17-12-2025	22-12-2025	1,067	
7	Raw Mill Area	17-12-2025	22-12-2025	1,146	
8	Truck Parking Area	17-12-2025	22-12-2025	874	
9	Coal Mill - 2	17-12-2025	22-12-2025	976	
10	Iron Ore Yard	17-12-2025	22-12-2025	946	


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/005/2025

Report Date: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 5.0	--
2. Stack cross sectional area (sq m)	: 19.63	--
3. Ambient temperature (°C)	: 30	--
4. Flue gas temperature (°C)	: 106	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.43	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 8,07,735	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 6,31,980	IS-11255 (Part-3); 2018

EMISSION DATA

LIMITS

8. Particulate matter Concentration (mg/N m ³)	: 12.50	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m ³)	: 2.80	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (No ₂) Concentration (mg/N m ³)	: 329	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: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	:	1.40	--
2. Stack cross sectional area (sq m)	:	1.54	--
3. Ambient temperature (°C)	:	29	--
4. Flue gas temperature (°C)	:	44	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	10.25	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	56,826	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	52,507	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	19.70	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/007/2025

Report Date: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Ambient temperature (°C)	: 29	--
4. Flue gas temperature (°C)	: 72	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.32	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 41,982	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 35,640	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 17.50 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/008/2025

Report Date: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 31	--
4. Flue gas temperature (°C)	: 66	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.15	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 57,974	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 50,040	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m³) : 16.20 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: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 3.80	--
2. Stack cross sectional area (sq m)	: 11.34	--
3. Ambient temperature (°C)	: 34	--
4. Flue gas temperature (°C)	: 134	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.87	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 3,62,109	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 2,59,992	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 20.10	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/010/2025

Report Date: 30-12-2025

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 : 19-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 0.90	--
2. Stack cross sectional area (sq m)	: 0.636	--
3. Ambient temperature (°C)	: 29	--
4. Flue gas temperature (°C)	: 84	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.38	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 21,476	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 17,653	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 12.50	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/011/2025

Report Date: 30-12-2025

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 : 18-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 80	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 7.23	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 40,083	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 33,156	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 13.20	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/012/2025

Report Date: 30-12-2025

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 : 19-12-2025
Date of Analysis : 22-12-2025

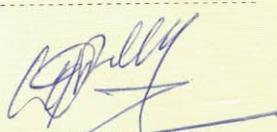
PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 34	--
4. Flue gas temperature (°C)	: 78	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 8.12	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 45,017	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 37,679	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 12.42	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: 30-12-2025

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 : 19-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 29	--
4. Flue gas temperature (°C)	: 44	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 11.28	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 51,856	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 47,967	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 21.50	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



LAWN ENVIRO PRIVATE LIMITED

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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

PROTOCOL

1. Stack diameter (m)	: 1.275	--
2. Stack cross sectional area (sq m)	: 1.277	--
3. Ambient temperature (°C)	: 29	--
4. Flue gas temperature (°C)	: 46	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 12.68	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 58,292	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 53,570	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 20.70	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/015/2025

Report Date: 30-12-2025

WASTE WATER ANALYSIS

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

Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
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	: 7.30	7.54	6.5 - 8.5
4. Total Dissolved Solids	: 1,632	1,510	2,100
5. Total Suspended Solids	: 70	14	100
6. Chemical oxygen demand	: 174	38	250
7. Biochemical oxygen demand (3 days at 27 °C)	: 62	05	100
8. Oil & Grease	: 2.10	<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/016/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

		As per IS:10500 - 2012	
		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	: <1.0	5 max	15 max
2. Turbidity (NTU)	: <1.0	01 max	05 max
3. pH	: 7.51	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO ₃ : 141	200 max	600 max
5. Calcium	as Ca : 32.33	75 max	200 max
6. Magnesium	as Mg : 14.60	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 : 82.74	250 max	1000 max
11. Sulphate	as SO ₄ : 23.90	200 max	400 max
12. Nitrates	as NO ₃ : 6.10	45 max	No relaxation
13. Fluorides	as F : <0.20	1.0 max	1.5 max
14. Phenol Compunds	as C ₆ H ₅ OH : <0.001	0.001 max	0.002 max
15. Mercury	as Hg : <0.001	0.001 max	No relaxation
16. Cadmium	as Cd : <0.003	0.003 max	No relaxation
17. Selenium	as Se : <0.01	0.01 max	No relaxation
18. Arsenic	as As : <0.01	0.01 max	0.05 max

Contd....

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				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		:	293	500 max	2000 max
32. Total alkalinity	as CaCO ₃	:	187	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/017/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	:	<1.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	726	NS	NS
3. Total Dissolved Solids	:	428	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.66	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	47	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	93.30	NS	NS
10. Potassium	as K	2.30	NS	NS
11. Calcium	as Ca	45	75 max	200 max
12. Magnesium	as Mg	9.50	30 max	100 max
13. Total Hardness	as CaCO ₃	149	200 max	600 max
14. Chloride	as Cl	123	250 max	1000 max
15. Fluoride	as F	0.51	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	13	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	123	200 max	600 max
18. Acidity	as CaCO ₃	07	NS	NS

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				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Total Iron	as Fe	:	0.18	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	:	0.09	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/018/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	:	<1.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	923	NS	NS
3. Total Dissolved Solids	:	559	500	2000
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.23	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	59	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	119.69	NS	NS
10. Potassium	as K	3.0	NS	NS
11. Calcium	as Ca	59	75 max	200 max
12. Magnesium	as Mg	11.10	30 max	100 max
13. Total Hardness	as CaCO ₃	192	200 max	600 max
14. Chloride	as Cl	158	250 max	1000 max
15. Fluoride	as F	0.45	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	16.70	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	158	200 max	600 max
18. Acidity	as CaCO ₃	20	NS	NS

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TEST REPORT

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				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	:	0.10	0.05 max	1.5 max
23. Zinc	as Zn	:	0.24	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	Absebt

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/019/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

As per IS:10500 - 2012

			Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	:	<1.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	709	NS	NS
3. Total Dissolved Solids	:	425	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.68	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	46.25	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	62.89	NS	NS
10. Potassium	as K	3.90	NS	NS
11. Calcium	as Ca	65	75 max	200 max
12. Magnesium	as Mg	12.80	30 max	100 max
13. Total Hardness	as CaCO ₃	215	200 max	600 max
14. Chloride	as Cl	123.14	250 max	1000 max
15. Fluoride	as F	0.32	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	13.0	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	124	200 max	600 max
18. Acidity	as CaCO ₃	09	NS	NS

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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	:	0.13	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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TEST REPORT

REF.NO: LAWN/SCL-P/020/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

		As per IS:10500 - 2012		
		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	
1. Colour (Hazen)	:	<5.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	930	NS	NS
3. Total Dissolved Solids	:	567	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.24	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	60.50	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	122.40	NS	NS
10. Potassium	as K	3.10	NS	NS
11. Calcium	as Ca	52	75 max	200 max
12. Magnesium	as Mg	16.20	30 max	100 max
13. Total Hardness	as CaCO ₃	196.0	200 max	600 max
14. Chloride	as Cl	161.10	250 max	1000 max
15. Fluoride	as F	0.32	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	18	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	162	200 max	600 max
18. Acidity	as CaCO ₃	13	NS	NS

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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	:	0.09	0.05 max	1.5 max
23. Zinc	as Zn	:	0.20	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/021/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

		As per IS:10500 - 2012		
		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	
1. Colour (Hazen)	:	<1.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	606	NS	NS
3. Total Dissolved Solids	:	526	500	2000
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.78	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	39.10	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	79.0	NS	NS
10. Potassium	as K	1.80	NS	NS
11. Calcium	as Ca	34	75 max	200 max
12. Magnesium	as Mg	10.0	30 max	100 max
13. Total Hardness	as CaCO ₃	127	200 max	600 max
14. Chloride	as Cl	104	250 max	1000 max
15. Fluoride	as F	0.39	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	11	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	104	200 max	600 max
18. Acidity	as CaCO ₃	05	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	:	0.13	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	:	0.15	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: 30-12-2025

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 (Krishna River)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	:	7.50	8.5
2. Dissolved oxygen	:	5.40	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.18	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms/100 ml	:	130	5000
12. Escherichia Coli/100 ml	:	Absent	Absent

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


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TEST REPORT

REF.NO: LAWN/SCL-P/023/2025

Report Date: 30-12-2025

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 (Krishna River)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296
Standards Section-C

1. pH	:	7.60	8.5
2. Dissolved oxygen	:	5.10	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.30	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms/100ml	:	110	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/024/2025

Report Date: 30-12-2025

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 (Nallah)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	:	7.29	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	:	0.28	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms/100 ml	:	120	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/025/2025

Report Date: 30-12-2025

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 (Nallah)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

		As per IS: 2296 Standards Section-C	
1. pH	:	7.88	8.5
2. Dissolved oxygen	:	4.60	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.21	1.5
5. Colour (Hazen Units)	:	<1.0	300
6. Cyanide as CN	:	<0.01	0.05
7. Arsenic as As	:	<0.01	0.02
8. Phenol Compunds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms /100 ml	:	118	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: 30-12-2025

WATER ANALYSIS

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

Sample Particular : Borewell (Near Colony Gate)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

		As per IS:10500 - 2012		
		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source	
1. Colour (Hazen)	:	<5.0	5 max	15 max
2. Conductivity (micromhos/cm)	:	689	NS	NS
3. Total Dissolved Solids	:	406	500	2000
4. Turbidity (NTU)	:	0.90	01 max	05 max
5. pH	:	7.48	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	12	NS	NS
7. Sulphates	as SO ₄	16.84	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	45	NS	NS
10. Potassium	as K	4.14	NS	NS
11. Calcium	as Ca	67.10	75 max	200 max
12. Magnesium	as Mg	17.10	30 max	100 max
13. Total Hardness	as CaCO ₃	239	200 max	600 max
14. Chloride	as Cl	60.75	250 max	1000 max
15. Fluoride	as F	0.32	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	7.60	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	232	200 max	600 max
18. Acidity	as CaCO ₃	10	NS	NS

Contd.....

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:2:

				As per IS:10500 - 2012	
				Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
19. Total Iron	as Fe	:	0.13	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	:	<0.01	0.05	1.5
23. Zinc	as Zn	:	0.20	5.0	15
24. Lead	as Pb	:	<0.01	0.01	No relaxation
25. Arsenic	as As	:	<0.01	0.01	0.05
26. Chromium	as Cr	:	<0.01	0.05	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003	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/027/2025

Report Date: 30-12-2025

WATER ANALYSIS

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

Sample Particular : Borewell (Near Railway Platform)
Date of Collection : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A 24th Edition

		As per IS:10500 - 2012	
		Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1. Colour (Hazen)	: <5.0	5 max	15 max
2. Conductivity (micromhos/cm)	: 656	NS	NS
3. Total Dissolved Solids	: 391	500	2000
4. Turbidity (NTU)	: 1.30	01 max	05 max
5. pH	: 7.15	6.50 - 8.50	No relaxation
6. Total Suspended Solids	: 10	NS	NS
7. Sulphates as SO ₄	: 38	200 max	400 max
8. Phosphorus as P	: 0.20	NS	NS
9. Sodium as Na	: 84.52	NS	NS
10. Potassium as K	: 3.95	NS	NS
11. Calcium as Ca	: 43.36	75 max	200 max
12. Magnesium as Mg	: 7.60	30 max	100 max
13. Total Hardness as CaCO ₃	: 139.78	200 max	600 max
14. Chloride as Cl	: 130.94	250 max	1000 max
15. Fluoride as F	: 0.42	1.0 max	1.5 max
16. Nitrate Nitrogen as NO ₃	: 17.64	45 max	No relaxation
17. Total Alkalinity as CaCO ₃	: 89.70	200 max	600 max
18. Acidity as CaCO ₃	: 14	NS	NS

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: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	:	<0.01	0.05	1.5
23. Zinc	as Zn	:	0.19	5.0	15
24. Lead	as Pb	:	<0.01	0.01	No relaxation
25. Arsenic	as As	:	<0.01	0.01	0.05
26. Chromium	as Cr	:	<0.01	0.05	No relaxation
27. Cadmium	as Cd	:	<0.01	0.003	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/028/2025

Report Date: 30-12-2025

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	:	62.30	57.20
2. Near Gullapally Village	:	48.20	43.50
3. Near Ramachandrapuram Village	:	49.50	44.10
4. Near Mattampally Village	:	51.40	46.80
5. Near Peddaveedu Village	:	50.80	45.90

- Note:**
- Noise levels are monitored on 20-12-2025.
 - Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
 - Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A) – As per NAAQ
 - Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A) – As per NAAQ


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TEST REPORT

REF.NO: LAWN/SCL-P/029/2025

Report Date: 30-12-2025

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	76.40	71.20	73.80
2. Near Coal Mill - 3	79.10	74.30	76.70
3. Near VRM area	80.60	75.20	77.90
4. Near Kiln - 1	82.40	77.80	80.10
5. Near Kiln - II	83.50	78.10	80.80
6. Near WHR Boiler area	81.70	76.30	79.00
7. Near Cement Mill - 3	80.90	75.10	78.00
8. Near Packing Plant	76.70	71.30	74.00
9. Near AFR area	79.20	74.60	76.90
10. Near STP area	76.60	71.40	74.00
11. Near Limestone Reclaimer	75.30	70.30	72.80
12. Truck Parking Area	74.40	69.20	71.80
13. Captive Power Plant Boiler	82.50	77.10	79.80
14. Coal Handling Area (CPP)	76.70	71.10	73.90
15. Turbine Generator Area	81.40	76.20	78.80

- Note:** *I 1. Noise levels monitoring conducted on 20-12-2025.
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/030/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.38
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 518
3. Water Holding Capacity (%)	: 68
4. Bulk Density (gm/cc)	: 1.22
5. Available Nitrogen as N (kg/ha)	: 108
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 29.84
7. Available Potassium as K ₂ O (kg/ha)	: 138
8. Phosphorus as P (Kg/Ha)	: 09
9. Organic Carbon (%)	: 0.12
10. Organic Matter (%)	: 0.21
11. Calcium as Ca (mg/kg)	: 1,331
12. Sodium as Na (mg/kg)	: 121
13. Potassium as K (mg/kg)	: 56
14. Copper as Cu (mg/kg)	: 3.56
15. Zinc as Zn (mg/kg)	: 7.60
16. Iron as Fe (mg/kg)	: 5.34
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Clay Loam
a) Sand (%)	: 23.40
b) Silt (%)	: 59.20
c) Clay (%)	: 17.40

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.61
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 558
3. Water Holding Capacity (%)	: 74
4. Bulk Density (gm/cc)	: 1.25
5. Available Nitrogen as N (kg/ha)	: 69
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 25.80
7. Available Potassium as K ₂ O (kg/ha)	: 74
8. Phosphorus as P (Kg/Ha)	: 7.90
9. Organic Carbon (%)	: 0.15
10. Organic Matter (%)	: 0.26
11. Calcium as Ca (mg/kg)	: 821
12. Sodium as Na (mg/kg)	: 145
13. Potassium as K (mg/kg)	: 35
14. Copper as Cu (mg/kg)	: 3.96
15. Zinc as Zn (mg/kg)	: 7.36
16. Iron as Fe (mg/kg)	: 6.64
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 17.30
b) Silt (%)	: 60.10
c) Clay (%)	: 22.60

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.44
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 738
3. Water Holding Capacity (%)	: 72
4. Bulk Density (gm/cc)	: 1.31
5. Available Nitrogen as N (kg/ha)	: 71
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 27.86
7. Available Potassium as K ₂ O (kg/ha)	: 98.83
8. Phosphorus as P (Kg/Ha)	: 8.60
9. Organic Carbon (%)	: 0.15
10. Organic Matter (%)	: 0.26
11. Calcium as Ca (mg/kg)	: 847
12. Sodium as Na (mg/kg)	: 192
13. Potassium as K (mg/kg)	: 52
14. Copper as Cu (mg/kg)	: 4.0
15. Zinc as Zn (mg/kg)	: 9.80
16. Iron as Fe (mg/kg)	: 5.50
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Sandy Clay loam
a) Sand (%)	: 40.10
b) Silt (%)	: 38.40
c) Clay (%)	: 21.50

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

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TEST REPORT

REF.NO: LAWN/SCL-M/033/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	:	7.65
2. E.C (microsiemens/cm) (1:5 soil water extract)	:	639
3. Water Holding Capacity (%)	:	76
4. Bulk Density (gm/cc)	:	1.20
5. Available Nitrogen as N (kg/ha)	:	83
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	:	36.56
7. Available Potassium as K ₂ O (kg/ha)	:	121.75
8. Phosphorus as P (Kg/Ha)	:	11.24
9. Organic Carbon (%)	:	0.14
10. Organic Matter (%)	:	0.24
11. Calcium as Ca (mg/kg)	:	1,397
12. Sodium as Na (mg/kg)	:	296
13. Potassium as K (mg/kg)	:	79
14. Copper as Cu (mg/kg)	:	7.90
15. Zinc as Zn (mg/kg)	:	13.28
16. Iron as Fe (mg/kg)	:	5.90
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	Sandy Clay loam
a) Sand (%)	:	43.20
b) Silt (%)	:	40.10
c) Clay (%)	:	16.70

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	:	7.10
2. E.C (microsiemens/cm) (1:5 soil water extract)	:	648
3. Water Holding Capacity (%)	:	70
4. Bulk Density (gm/cc)	:	1.27
5. Available Nitrogen as N (kg/ha)	:	89.50
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	:	32.30
7. Available Potassium as K ₂ O (kg/ha)	:	103.80
8. Phosphorus as P (Kg/Ha)	:	9.90
9. Organic Carbon (%)	:	0.11
10. Organic Matter (%)	:	0.19
11. Calcium as Ca (mg/kg)	:	968
12. Sodium as Na (mg/kg)	:	268
13. Potassium as K (mg/kg)	:	68
14. Copper as Cu (mg/kg)	:	4.40
15. Zinc as Zn (mg/kg)	:	6.75
16. Iron as Fe (mg/kg)	:	7.20
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	Silty Loam
a) Sand (%)	:	28.40
b) Silt (%)	:	61.20
c) Clay (%)	:	10.40

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.72
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 669
3. Water Holding Capacity (%)	: 68
4. Bulk Density (gm/cc)	: 1.32
5. Available Nitrogen as N (kg/ha)	: 85.10
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 30.30
7. Available Potassium as K ₂ O (kg/ha)	: 96.70
8. Phosphorus as P (Kg/Ha)	: 9.30
9. Organic Carbon (%)	: 0.14
10. Organic Matter (%)	: 0.24
11. Calcium as Ca (mg/kg)	: 891
12. Sodium as Na (mg/kg)	: 283
13. Potassium as K (mg/kg)	: 59
14. Copper as Cu (mg/kg)	: 4.20
15. Zinc as Zn (mg/kg)	: 5.90
16. Iron as Fe (mg/kg)	: 5.14
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 22.30
b) Silt (%)	: 60.20
c) Clay (%)	: 17.50

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.31
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 649
3. Water Holding Capacity (%)	: 73
4. Bulk Density (gm/cc)	: 1.21
5. Available Nitrogen as N (kg/ha)	: 90.0
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 46.80
7. Available Potassium as K ₂ O (kg/ha)	: 153.90
8. Phosphorus as P (Kg/Ha)	: 14.40
9. Organic Carbon (%)	: 0.17
10. Organic Matter (%)	: 0.30
11. Calcium as Ca (mg/kg)	: 1,065.20
12. Sodium as Na (mg/kg)	: 343
13. Potassium as K (mg/kg)	: 94
14. Copper as Cu (mg/kg)	: 5.40
15. Zinc as Zn (mg/kg)	: 9.50
16. Iron as Fe (mg/kg)	: 8.60
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Sandy Clay Loam
a) Sand (%)	: 32.10
b) Silt (%)	: 46.50
c) Clay (%)	: 21.40

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	:	7.52
2. E.C (microsiemens/cm) (1:5 soil water extract)	:	740
3. Water Holding Capacity (%)	:	70
4. Bulk Density (gm/cc)	:	1.28
5. Available Nitrogen as N (kg/ha)	:	57.10
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	:	35.0
7. Available Potassium as K ₂ O (kg/ha)	:	98.90
8. Phosphorus as P (Kg/Ha)	:	11.20
9. Organic Carbon (%)	:	0.15
10. Organic Matter (%)	:	0.26
11. Calcium as Ca (mg/kg)	:	590
12. Sodium as Na (mg/kg)	:	585
13. Potassium as K (mg/kg)	:	230
14. Copper as Cu (mg/kg)	:	4.68
15. Zinc as Zn (mg/kg)	:	10.20
16. Iron as Fe (mg/kg)	:	7.50
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	Silty Clay Loam
a) Sand (%)	:	18.30
b) Silt (%)	:	58.20
c) Clay (%)	:	23.50

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


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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.55
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 502
3. Water Holding Capacity (%)	: 70
4. Bulk Density (gm/cc)	: 1.32
5. Available Nitrogen as N (kg/ha)	: 61.32
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 27.70
7. Available Potassium as K ₂ O (kg/ha)	: 93.0
8. Phosphorus as P (Kg/Ha)	: 9.10
9. Organic Carbon (%)	: 0.11
10. Organic Matter (%)	: 0.19
11. Calcium as Ca (mg/kg)	: 1,025
12. Sodium as Na (mg/kg)	: 268
13. Potassium as K (mg/kg)	: 78
14. Copper as Cu (mg/kg)	: 3.60
15. Zinc as Zn (mg/kg)	: 9.30
16. Iron as Fe (mg/kg)	: 6.90
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Clay Loam
a) Sand (%)	: 15.30
b) Silt (%)	: 60.40
c) Clay (%)	: 24.30

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

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TEST REPORT

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

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025

1. pH (1:5 Soil Water Extract)	: 7.31
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 602
3. Water Holding Capacity (%)	: 74
4. Bulk Density (gm/cc)	: 1.26
5. Available Nitrogen as N (kg/ha)	: 69.50
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 29.70
7. Available Potassium as K ₂ O (kg/ha)	: 101.50
8. Phosphorus as P (Kg/Ha)	: 9.10
9. Organic Carbon (%)	: 0.16
10. Organic Matter (%)	: 0.27
11. Calcium as Ca (mg/kg)	: 911
12. Sodium as Na (mg/kg)	: 271
13. Potassium as K (mg/kg)	: 74
14. Copper as Cu (mg/kg)	: 5.60
15. Zinc as Zn (mg/kg)	: 6.50
16. Iron as Fe (mg/kg)	: 8.70
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 12.60
b) Silt (%)	: 59.30
c) Clay (%)	: 28.10

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


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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Lab Sample Boy	Mr. S. Mahesh	8060439	Male	P & QC	22	0.06	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
VRM Attendant	Mr. N. Rambrahma Chary	8000162	Male	VRM Raw Mill	40	0.18	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Reclaimer Operator	Mr. G. Anji	8000239	Male	VRM Raw Mill	38	0.22	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer – 2 Operator	Mr. Sanjay Lal Srivastava	8010131	Male	Packing Plant	50	0.20	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026

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Certified Company

TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer - 2	Mr. Rambhajan Kumar	8010304	Male	Packing Plant	30	0.24	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


AUTHORISED SIGNATORY



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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer – 2 Loader	Mr. Birender Kumar	8010087	Male	Packing Plant	31	0.23	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026

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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025

Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer – 3 Operator	Mr. Nitish Kumar	8010411	Male	Packing Plant	32	0.29	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

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

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer – 3 Bag Diverter	Mr. Prakash Lal Srivastav	8010104	Male	Packing Plant	35	0.22	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

REF.NO: LAWN/SCL-P/048/2025

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Packer – 3 Loader	Mr. M Ramesh	8010307	Male	Packing Plant	31	0.22	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026

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TEST REPORT

REF.NO: LAWN/SCL-P/049/2025

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Coal Mill – 3 Operator	Mr. K. Saidi Reddy	80086	Male	P & QC	43	0.12	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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REF.NO: LAWN/SCL-P/050/2025

Report Date: 30-12-2025

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Chemical lab Sampling Boy	Mr. K. Veera babu	8000099	Male	P & QC	43	0.30	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Coal Mill – 2 Attender	Mr. CH. Bikshamaiah	10042	Male	P & QC	53	0.17	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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Report Date: 30-12-2025

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Cement Mill 3 & 4 Clinker Feeding Attender	Mr. J. Veera babu	8000240	Male	P & QC	33	0.19	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Cement Mill 3 & 4 Gypsum & Limestone Feeder	Mr. CH. Veera Babu	8060997	Male	P & QC	27	0.25	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026

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TEST REPORT

REF.NO: LAWN/SCL-P/054/2025

Report Date: 30-12-2025

PERSONAL DUST & FREE SILICA ANALYSIS

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

Date of Collection : 17-12-2025
Date of Analysis : 22-12-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Cement Mill 3 & 4 Weigh Feeder	Mr. B. Kotya	8000132	Male	P & QC	54	0.34	3.0	Not Detected	5.0

Note:

Instrument Name : **Personal Sampler**
Model No : APM 800;
Make : ENVIROTECH Instruments Pvt.Ltd.,
Serial number : 914-DTA-2015
Calibration On : 31-5-2025
Calibration due On: 30-5-2026


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TEST REPORT

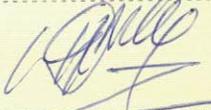
REF.NO: LAWN/SCL-P/001/2025

Report Date: 30-12-2025

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	20-12-2025	---	---
2. Date of Analysis	22-12-2025	---	---
3. Total time of monitoring	24 hr	---	---
4. Average flow rate (cum/min)	1.12	---	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	64.38	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	25.02	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	12.10	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	24.90	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/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/002/2025

Report Date: 30-12-2025

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	20-12-2025	22-12-2025	1,531	2000 ($\mu\text{g}/\text{m}^3$)
2	Coal Yard	20-12-2025	22-12-2025	1,219	

AUTHORISED SIGNATORY

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

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

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TEST REPORT

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

Report Date: 30-12-2025

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	:	19-12-2025	--
2. Date of analysis	:	22-12-2025	--
3. Location	:	Chimney	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature (°C)	:	30	--
7. Flue gas temperature (°C)	:	126	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	:	5.44	IS:11255 (Part-3); 2018
9. Flow rate (m ³ /hr)	:	1,88,398	IS:11255 (Part-3); 2018
10. Flow rate (N m ³ /hr)	:	1,38,096	IS:11255 (Part-3); 2018

EMISSION DATA

LIMITS

11. Particulate matter Concentration (mg/Nm ³)	:	20.28	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration (mg/Nm ³)	:	39.40	100	IS:11255 (Part-2); 2019
13. Oxides of nitrogen Concentration (mg/Nm ³)	:	51.20	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/004/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.42	6.50-8.50
2. Total dissolved solids	:	1,310	2100
3. Total Suspended solids (at 103-105 °C)	:	24	100
4. Chemical oxygen demand	:	60.40	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	6.90	30
6. Chlorides as Cl	:	322	600
7. Sulphates as SO ₄	:	104	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.70	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.10	1.0
12. Iron as Fe	:	0.16	1.0
13. Phosphate as P	:	0.38	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/005/2025

Report Date: 30-12-2025

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 : 20-12-2025
Date of Analysis : 22-12-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	7.64	6.50-8.50
2. Total dissolved solids	:	835	2100
3. Total Suspended solids (at 103-105 °C)	:	20	100
4. Chemical oxygen demand	:	31.10	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	232.50	600
7. Sulphates as SO ₄	:	46.30	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	0.80	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.09	1.0
12. Iron as Fe	:	0.12	1.0
13. Phosphate as P	:	0.30	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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