



SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/001

Date: 10.04.2025

To
The Environmental Engineer,
TGPCB, 8-15, I Floor,
Sri Laxmi Complex,
Sri Vinayaka Nagar, Hyderabad Road,
NALGONDA-508 001.

Dear Sir,

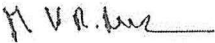
Sub: Submission of Environmental monitoring report - Reg.
Ref: TSPCB/220823352392/RO-NLG/HO/CFO /2023-957, dated:
09.10.2023

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 **March - 2025** are enclosed.

Please acknowledge receipt of the same.

Thanking you Sir,

Yours Sincerely,
For SAGAR CEMENTS LIMITED,


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 : 36AACC8680H2ZY

Factories : Mattampally Village & Mandal, Suryapet District, Telangana State - 508204. Phone : 08683 - 247039 GSTIN : 36AACC8680H1ZZ

Bayyavaram Village, Kasimkota Mandal, Anakapally District, Andhra Pradesh State - 531031. Phone : 08924-244550 Fax : 08924-244570 GSTIN : 37AACC8680H1ZX

Gudipadu Village, Yadiki Mandal, Ananthapur District, Andhra Pradesh State - 515408. Phone: 08558-200272 GSTIN : 37AACC8680H1ZX

Kalinganagar, Industrial Complex, Tahsil-Dangadi, Dist - Jaipur, Odisha. Phone : 08340882288 GSTIN : 21AACC8680H1ZA



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	:	18-3-2025	18-3-2025	--	---
2. Date of Analysis	:	22-3-2025	22-3-2025	--	---
3. Total time of monitoring	:	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	:	1.10	1.06	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	:	52	46	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	:	23	18	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	11	06	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	20	24	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):		0.015	0.018	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2463-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926
Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182
Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	:	18-3-2025	18-3-2025	--	---
2. Date of Analysis	:	22-3-2025	22-3-2025	--	---
3. Total time of monitoring	:	24 hr	24 hr	--	---
4. Average flow rate (cum/min)	:	1.14	1.12	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	:	44	54	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	:	16	21	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	08	07	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	:	19	18	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³):	:	0.005	0.010	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2181-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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Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	18-3-2025	--	---
2. Date of Analysis	22-3-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.11	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	65	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	27	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	13	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	26	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m ³)	0.031	2	IS:5182 (Part-10); 2019 CO Analyzer Method


AUTHORISED SIGNATORY

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

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	19-3-2025	22-3-2025	1,215	2000 ($\mu\text{g}/\text{m}^3$)
2	VRM	19-3-2025	22-3-2025	1,563	
3	Packing Plant	19-3-2025	22-3-2025	1,684	
4	Crusher	19-3-2025	22-3-2025	1,791	
5	Lime Stone Stacker Reclaimer	19-3-2025	22-3-2025	1,368	
6	Coal Mill	20-3-2025	22-3-2025	1,864	
7	Raw Mill Area	20-3-2025	22-3-2025	1,510	
8	Truck Parking Area	20-3-2025	22-3-2025	1,377	
9	Coal Mill - 2	20-3-2025	22-3-2025	1,610	
10	Iron Ore Yard	20-3-2025	22-3-2025	1,526	


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 480; (SL. NO. 2465-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
4. RESPIRABLE DUST SAMPLER MODEL / APM 480; (SL. NO. 2463-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
5. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 19-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	5.0	--
2. Stack cross sectional area (sq m)	:	19.63	--
3. Ambient temperature (°C)	:	34	--
4. Flue gas temperature (°C)	:	106	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	12.80	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	9,04,550	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	7,00,596	IS-11255 (Part-3); 2018

EMISSION DATA

LIMITS

8. Particulate matter Concentration (mg/N m ³)	:	15.80	30	IS-11255 (Part-1); 2019
9. Sulphur dioxide Concentration (mg/N m ³)	:	1.50	100	IS-11255 (Part-2); 2019
10. Nitrogen dioxide (NO ₂) Concentration (mg/N m ³)	:	312	800	IS-11255 (Part-7); 2017


AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	: 1.40	--
2. Stack cross sectional area (sq m)	: 1.54	--
3. Ambient temperature (°C)	: 33	--
4. Flue gas temperature (°C)	: 44	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 10.49	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 58,157	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 53,504	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 21.80	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 06-01-2025, Due On 05-01-2028



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Coal Mill - 1
Date of Sampling : 18-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	0.80	--
2. Stack cross sectional area (sq m)	:	0.502	--
3. Ambient temperature (°C)	:	35	--
4. Flue gas temperature (°C)	:	78	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	11.15	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	20,150	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	16,765	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Suspended 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/2025

Report Date: 31-3-2025

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 : 19-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	1.20	--
2. Stack cross sectional area (sq m)	:	1.13	--
3. Ambient temperature (°C)	:	34	--
4. Flue gas temperature (°C)	:	70	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	10.41	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	42,348	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	36,288	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	20.20	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	: 1.50	--
2. Stack cross sectional area (sq m)	: 1.76	--
3. Ambient temperature (°C)	: 32	--
4. Flue gas temperature (°C)	: 68	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	: 9.96	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	: 63,107	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	: 54,360	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	: 21.70	30	IS-11255 (Part-1); 2019
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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/2025

Report Date: 31-3-2025

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 : 19-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	3.80	--
2. Stack cross sectional area (sq m)	:	11.34	--
3. Ambient temperature (°C)	:	36	--
4. Flue gas temperature (°C)	:	134	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	8.82	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	3,60,068	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	2,59,884	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	17.46	30	IS-11255 (Part-1); 2019
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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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REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

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)	:	81	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	7.06	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	39,141	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	32,580	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	15.20	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Kiln – 1 Cooler ESP
Date of Sampling : 19-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	2.25	--
2. Stack cross sectional area (sq m)	:	3.97	--
3. Ambient temperature (°C)	:	36	--
4. Flue gas temperature (°C)	:	236	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	17.58	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	2,51,253	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	1,45,404	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	18.10	30	IS-11255 (Part-1); 2019
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 06-01-2025, Due On 05-01-2026



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Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	1.40	--
2. Stack cross sectional area (sq m)	:	1.54	--
3. Ambient temperature (°C)	:	35	--
4. Flue gas temperature (°C)	:	85	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	8.17	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	45,294	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	37,260	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	15.90	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 19-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	1.275	--
2. Stack cross sectional area (sq m)	:	1.277	--
3. Ambient temperature (°C)	:	34	--
4. Flue gas temperature (°C)	:	46	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	10.35	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	47,581	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	43,679	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	14.56	30	IS-11255 (Part-1); 2019
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AUTHORISED SIGNATORY

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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

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)	:	11.75	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	54,017	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	50,344	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

8. Particulate matter Concentration (mg/N m ³)	:	18.74	30	IS-11255 (Part-1); 2019
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STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, Calibrated On 06-01-2025, Due On 05-01-2026



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

STACK MONITORING DATA

Name of the Industry & : **M/s. SAGAR CEMENTS LIMITED,**
Address **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 : 21-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	0.20	--
2. Stack cross sectional area (sq m)	:	0.0314	--
3. Ambient temperature (°C)	:	43	--
4. Flue gas temperature (°C)	:	230	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	17.25	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	1,950	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	1,135	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

7. Particulate matter Concentration (g/kw-hr)	:	0.09	≤0.2	IS-11255 (Part-1); 2019
8. Oxides of Nitrogen + Hydrocarbons: Concentration (g/kw-hr)	:	2.21	≤4.0	IS-11255 & USEPA (Part-7); 2017
9. Carbon Monoxide Concentration (g/kw-hr)	:	0.32	≤3.5	USEPA

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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 21-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	0.35	--
2. Stack cross sectional area (sq m)	:	0.096	--
3. Ambient temperature (°C)	:	41	--
4. Flue gas temperature (°C)	:	250	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	17.32	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	5,986	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	3,358	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

7. Suspended Particulate matter Concentration (mg/N m ³)	:	65	<75	IS-11255 (Part-1); 2019
8. Oxides of nitrogen Concentration (ppmv)	:	256	<710	IS-11255 (Part-7); 2017
9. Carbonmonoxide Concentration (mg/Nm ³)	:	51	<150	USEPA
10. Non-methane Hydrocarbons (as C): Concentration (mg/Nm ³)	:	08	<100	USEPA


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 21-3-2025
Date of Analysis : 22-3-2025

PROTOCOL

1. Stack diameter (m)	:	0.35	--
2. Stack cross sectional area (sq m)	:	0.096	--
3. Ambient temperature (°C)	:	40	--
4. Flue gas temperature (°C)	:	262	IS-11255 (Part-3); 2018
5. Exit velocity of flue gases (m/sec)	:	17.92	IS-11255 (Part-3); 2018
6. Flow rate (m ³ /hr)	:	6,193	IS-11255 (Part-3); 2018
7. Flow rate (N m ³ /hr)	:	3,381	IS-11255 (Part-3); 2018

EMISSION DATA

LIMIT

7. Suspended Particulate matter Concentration (mg/N m ³)	:	69	<75	IS-11255 (Part-1); 2019
8. Oxides of nitrogen Concentration (ppmv)	:	264	<710	IS-11255 (Part-7); 2017
9. Carbonmonoxide Concentration (mg/Nm ³)	:	48	<150	USEPA
10. Non-methane Hydrocarbons (as C): Concentration (mg/Nm ³)	:	06	<100	USEPA


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



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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

WASTE WATER ANALYSIS

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

Date of Collection : 22-3-2025
Date of Analysis : 24-3-2025
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	7.96	8.12	6.5 - 8.5
4. Total Dissolved Solids	1,904	1,836	2,100
5. Total Suspended Solids	136	28	100
6. Chemical oxygen demand	240	53	250
7. Biochemical oxygen demand (3 days at 27 °C)	98	10	100
8. Oil & Grease	2.0	<1.0	10

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	:	7.81	8.5
2. Dissolved oxygen	:	5.20	>4.0
3. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	3.0
4. Fluorides as F	:	0.58	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	:	136	5000
12. Escherichia Coli/100ml	:	Absent	Absent

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	:	8.26	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	:	0.52	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 Compounds 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	:	143	5000
12. Escherichia Coli/100 ml	:	Absent	Absent

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


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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 : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	:	8.05	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	:	0.45	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 Compounds as C ₆ H ₅ OH	:	<0.01	0.005
9. Chromium as Cr	:	<0.01	0.05
10. Anionic Detergents as MBAS	:	<0.05	1.0
11. Total Coli forms/100 ml	:	139	5000
12. Escherichia Coli/100 ml	:	Absent	Absent

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


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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 : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

As per IS: 2296 Standards Section-C

1. pH	:	7.75	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	:	0.41	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	:	146	5000
12. Escherichia Coli/100 ml	:	Absent	Absent

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


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Report Date: 31-3-2025

WATER ANALYSIS

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

Sample Particular : Drinking Water (R.O Plant)
Date of Collection : 22-3-2025
Date of Analysis : 24-3-2025
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		:	6.98	6.50 - 8.50	No relaxation
4. Total hardness	as CaCO ₃	:	62	200 max	600 max
5. Calcium	as Ca	:	14.20	75 max	200 max
6. Magnesium	as Mg	:	6.44	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	:	36.30	250 max	1000 max
11. Sulphate	as SO ₄	:	10.50	200 max	400 max
12. Nitrates	as NO ₃	:	2.70	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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: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		:	129	500 max	2000 max
32. Total alkalinity	as CaCO ₃	:	82	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	NS

Note : 1) All the values except pH & E.C. are expressed in mg/L.

2) NS – Not Specified


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
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)		:	1,093	NS	NS
3. Total Dissolved Solids		:	652	500 max	2000 max
4. Turbidity (NTU)		:	<1.0	01 max	05 max
5. pH		:	7.59	6.50 - 8.50	No relaxation
6. Total Suspended Solids		:	<5.0	NS	NS
7. Sulphates	as SO ₄	:	71	200 max	400 max
8. Phosphorus	as P	:	<0.10	NS	NS
9. Sodium	as Na	:	143.50	NS	NS
10. Potassium	as K	:	3.60	NS	NS
11. Calcium	as Ca	:	68	75 max	200 max
12. Magnesium	as Mg	:	14.59	30 max	100 max
13. Total Hardness	as CaCO ₃	:	230	200 max	600 max
14. Chloride	as Cl	:	189	250 max	1000 max
15. Fluoride	as F	:	0.32	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	:	20	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	:	190	200 max	600 max
18. Acidity	as CaCO ₃	:	12	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	:	0.26	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	:	0.29	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



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
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)	: 1,279	NS	NS
3. Total Dissolved Solids	: 784	500	2000
4. Turbidity (NTU)	: <1.0	01 max	05 max
5. pH	: 7.06	6.50 - 8.50	No relaxation
6. Total Suspended Solids	: <5.0	NS	NS
7. Sulphates as SO ₄	: 83	200 max	400 max
8. Phosphorus as P	: <0.10	NS	NS
9. Sodium as Na	: 167.90	NS	NS
10. Potassium as K	: 4.20	NS	NS
11. Calcium as Ca	: 82	75 max	200 max
12. Magnesium as Mg	: 15.56	30 max	100 max
13. Total Hardness as CaCO ₃	: 269	200 max	600 max
14. Chloride as Cl	: 221	250 max	1000 max
15. Fluoride as F	: 0.38	1.0 max	1.5 max
16. Nitrate Nitrogen as NO ₃	: 23.40	45 max	No relaxation
17. Total Alkalinity as CaCO ₃	: 222	200 max	600 max
18. Acidity as CaCO ₃	: 28	NS	NS

Contd.....

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

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046. Tel : 9701505182

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



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				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	:	0.14	0.05 max	1.5 max
23. Zinc	as Zn	:	0.34	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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
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)	:	1,023	NS	NS
3. Total Dissolved Solids	:	616	500 max	2000 max
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	7.97	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	66.40	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	90.30	NS	NS
10. Potassium	as K	5.60	NS	NS
11. Calcium	as Ca	93	75 max	200 max
12. Magnesium	as Mg	18.35	30 max	100 max
13. Total Hardness	as CaCO ₃	308	200 max	600 max
14. Chloride	as Cl	176.80	250 max	1000 max
15. Fluoride	as F	0.34	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	18.72	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	178	200 max	600 max
18. Acidity	as CaCO ₃	13	NS	NS

Contd.....

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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	:	0.28	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	:	0.17	0.05 max	1.5 max
23. Zinc	as Zn	:	0.40	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/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
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)	: 1,369	NS	NS
3. Total Dissolved Solids	: 832	500 max	2000 max
4. Turbidity (NTU)	: <1.0	01 max	05 max
5. pH	: 8.10	6.50 - 8.50	No relaxation
6. Total Suspended Solids	: <5.0	NS	NS
7. Sulphates as SO ₄	: 88.80	200 max	400 max
8. Phosphorus as P	: <0.10	NS	NS
9. Sodium as Na	: 179.70	NS	NS
10. Potassium as K	: 4.50	NS	NS
11. Calcium as Ca	: 76	75 max	200 max
12. Magnesium as Mg	: 23.77	30 max	100 max
13. Total Hardness as CaCO ₃	: 287.80	200 max	600 max
14. Chloride as Cl	: 236.50	250 max	1000 max
15. Fluoride as F	: 0.37	1.0 max	1.5 max
16. Nitrate Nitrogen as NO ₃	: 25.0	45 max	No relaxation
17. Total Alkalinity as CaCO ₃	: 238	200 max	600 max
18. Acidity as CaCO ₃	: 19	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	:	0.34	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	:	0.28	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/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025
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)	:	984	NS	NS
3. Total Dissolved Solids	:	590	500	2000
4. Turbidity (NTU)	:	<1.0	01 max	05 max
5. pH	:	8.02	6.50 - 8.50	No relaxation
6. Total Suspended Solids	:	<5.0	NS	NS
7. Sulphates	as SO ₄	63.90	200 max	400 max
8. Phosphorus	as P	<0.10	NS	NS
9. Sodium	as Na	129.10	NS	NS
10. Potassium	as K	3.0	NS	NS
11. Calcium	as Ca	56	75 max	200 max
12. Magnesium	as Mg	16.29	30 max	100 max
13. Total Hardness	as CaCO ₃	207	200 max	600 max
14. Chloride	as Cl	170	250 max	1000 max
15. Fluoride	as F	0.36	1.0 max	1.5 max
16. Nitrate Nitrogen	as NO ₃	18	45 max	No relaxation
17. Total Alkalinity	as CaCO ₃	171	200 max	600 max
18. Acidity	as CaCO ₃	09	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	:	0.21	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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Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

AMBIENT NOISE QUALITY DATA

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

Location		Levels in dB (A)	
		Day time	Night time
1. Near Main gate	:	64.20	59.10
2. Near Gullapally Village	:	51.60	41.70
3. Near Ramachandrapuram Village	:	49.50	39.50
4. Near Mattampally Village	:	52.60	42.30
5. Near Peddaveedu Village	:	50.90	40.40

- Note:**
- Noise levels are monitored on 20-3-2025.
 - Instrument make - Lutron SL - 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
 - Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A) - As per NAAQ
 - Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A) - As per NAAQ


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

AMBIENT NOISE LEVEL DATA (Day Time & Night Time)

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

Hours (Time)	Plant Main Gate	Peddaveedu Village	Mattampally Village
12.00 pm	62.50	47.20	48.70
1.00 pm	63.60	48.50	48.40
2.00 pm	63.90	49.60	49.50
3.00 pm	64.10	50.20	49.90
4.00 pm	64.70	50.80	50.40
5.00 pm	65.20	51.70	50.80
6.00 pm	65.80	51.10	51.20
7.00 pm	63.30	50.80	51.90
8.00 pm	62.70	50.20	52.30
9.00 pm	61.50	50.10	53.10
10.00 pm	60.20	49.50	52.50
11.00 pm	58.70	48.30	50.30
12.00 am	56.30	48.40	49.50
1.00 am	53.70	47.20	48.40
2.00 am	52.20	41.60	42.70
3.00 am	51.40	42.50	46.30
4.00 am	50.80	44.10	45.90
5.00 am	49.50	43.80	44.40
6.00 am	52.40	46.60	45.90
7.00 am	54.90	47.80	46.50
8.00 am	56.70	50.10	48.80
9.00 am	59.30	51.50	50.20
10.00 am	60.20	52.60	50.60
11.00 am	62.40	51.30	51.70
Min	49.50	41.60	42.70
Max	65.80	52.60	53.10
Leq day	61.94	50.19	50.41
Leq Night	53.10	45.79	46.49

- Note:**
1. Noise levels are monitored on 20-3-2025 to 21-3-2025.
 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/2025

Report Date: 31-3-2025

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	47.10	46.30
1.00 pm	47.50	46.90
2.00 pm	48.20	45.60
3.00 pm	48.60	47.10
4.00 pm	48.90	47.90
5.00 pm	50.20	48.30
6.00 pm	51.40	49.40
7.00 pm	51.90	47.20
8.00 pm	50.10	46.30
9.00 pm	49.50	45.10
10.00 pm	49.70	44.90
11.00 pm	48.20	43.70
12.00 am	47.10	42.40
1.00 am	47.50	41.80
2.00 am	42.60	40.50
3.00 am	41.10	41.20
4.00 am	45.80	41.90
5.00 am	44.90	42.50
6.00 am	45.50	43.60
7.00 am	46.20	43.80
8.00 am	46.80	44.90
9.00 am	47.20	45.20
10.00 am	48.60	46.70
11.00 am	49.50	48.50
Min	41.10	40.50
Max	51.90	49.40
Leq day	45.73	43.70
Leq Night	45.28	42.51

- Note:**
- Noise levels are monitored on 20-3-2025 to 21-3-2025.
 - 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/2025

Report Date: 31-3-2025

WORK ZONE NOISE QUALITY DATA

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

Location	Levels in dB (A)		
	Max	Min	Avg.
1. Near Cement Mill - 1	81.50	75.10	78.30
2. Near Coal Mill - 3	78.40	73.20	75.80
3. Near VRM area	77.20	72.60	74.90
4. Near Kiln - 1	82.50	77.30	79.90
5. Near Kiln - II	80.70	75.50	78.10
6. Near WHR Boiler area	82.10	77.30	79.70
7. Near Cement Mill - 3	81.90	76.50	79.20
8. Near Packing Plant	76.20	71.40	73.80
9. Near AFR area	74.70	69.30	72.00
10. Near STP area	67.40	62.20	64.80
11. Near Limestone Reclaimer	72.60	67.40	70.00
12. Truck Parking Area	63.80	58.20	61.00
13. Captive Power Plant Boiler	83.90	78.70	81.30
14. Coal Handling Area (CPP)	76.80	71.80	74.30
15. Turbine Generator Area	80.30	75.40	77.85

- Note:** *I 1. Noise levels monitoring conducted on 20-3-2025.
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



ISO 9001, 14001 & 45001
Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	81.80	76.40	79.10
2. Cement Mill Area	80.70	75.50	78.10
3. Coal Mill Area	78.40	73.20	75.80
4. CPP TG Area	82.50	77.10	79.80
5. Compressor Area	83.10	78.70	80.90

- Note:** *I 1. Noise levels monitoring conducted on 21-3-2025.
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



ISO 9001, 14001 & 45001
Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 :	91.10	65.80	25.30	
2. 1250 KVA D.G. Set – I :	93.70	68.50	25.20	
3. 1250 KVA D.G. Set – II :	89.40	64.30	25.10	

Note: 1) Noise levels are monitored on 21-3-2025.

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


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TEST REPORT



ISO 9001, 14001 & 45001
Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 19-3-2025

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	9.10	27.5	23.5	36.5	45.4	33.7	41.8
2	10.15	27.7	23.6	36.8	45.6	33.8	41.7
3	11.00	27.8	23.8	38.2	45.8	33.8	41.1
4	11.30	27.4	23.6	39.5	47.2	34.1	40.8
5	12.00	28.5	24.6	40.1	50.1	34.5	40.4
6	12.30	28.1	24.1	40.2	50.6	34.2	38.6
7	1.00	27.2	23.9	37.2	49.5	33.5	38.5
8	1.30	26.8	23.1	37.5	48.5	33.3	36.5

Instrument : Heat Stress WBGT Meter

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Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 19-3-2025
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	9.10	27.2	25.1	36.4	47.5	35.2	40.6
2	10.15	27.6	25.4	36.6	47.7	35.4	40.5
3	11.00	27.4	25.6	36.5	48.4	35.6	40.8
4	11.30	28.2	26.2	37.2	48.5	35.5	40.2
5	12.00	28.1	26.8	40.5	50.1	36.2	39.6
6	12.30	27.6	25.2	41.4	50.8	37.8	39.7
7	1.00	27.4	24.6	38.2	51.2	36.5	38.4
8	1.30	26.5	24.3	36.5	48.6	36.9	38.8

Instrument : Heat Stress WBGT Meter


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

WORK ZONE MONITORING (HEAT STRESS)

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

Date of sampling : 19-3-2025

Sample Description : HEAT STRESS INDEX °C

Location : WHR BOILER

S. No.	Time	Wet °C	Dry °C	Globe °C	DBGTI °C	WBGTI °C	RH%
1	9.10	25.5	21.8	37.6	38.5	29.8	39.6
2	10.15	25.7	21.9	37.8	38.1	29.2	39.5
3	11.00	25.8	21.2	37.3	38.7	28.1	40.1
4	11.30	25.4	21.5	38.6	39.2	29.5	38.6
5	12.00	25.6	22.2	38.4	39.6	29.6	38.2
6	12.30	26.1	22.4	37.2	38.6	30.1	37.1
7	1.00	25.2	21.8	37.3	38.5	30.0	37.2
8	1.30	24.6	21.6	36.2	38.1	29.5	38.5

Instrument : Heat Stress WBGT Meter

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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 8.18
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 563
3. Water Holding Capacity (%)	: 82
4. Bulk Density (gm/cc)	: 1.32
5. Available Nitrogen as N (kg/ha)	: 118
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 32.55
7. Available Potassium as K ₂ O (kg/ha)	: 150
8. Phosphorus as P (Kg/Ha)	: 10.0
9. Organic Carbon (%)	: 0.26
10. Organic Matter (%)	: 0.45
11. Calcium as Ca (mg/kg)	: 1,450
12. Sodium as Na (mg/kg)	: 132
13. Potassium as K (mg/kg)	: 60
14. Copper as Cu (mg/kg)	: 3.90
15. Zinc as Zn (mg/kg)	: 8.30
16. Iron as Fe (mg/kg)	: 5.84
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Clay Loam
a) Sand (%)	: 16.40
b) Silt (%)	: 62.80
c) Clay (%)	: 20.80

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 8.46
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 872
3. Water Holding Capacity (%)	: 88
4. Bulk Density (gm/cc)	: 1.30
5. Available Nitrogen as N (kg/ha)	: 109
6. Available Phosphorous as P_2O_5 (kg/ha)	: 40.30
7. Available Potassium as K_2O (kg/ha)	: 115
8. Phosphorus as P (Kg/Ha)	: 12.40
9. Organic Carbon (%)	: 0.25
10. Organic Matter (%)	: 0.43
11. Calcium as Ca (mg/kg)	: 1,283
12. Sodium as Na (mg/kg)	: 226
13. Potassium as K (mg/kg)	: 54
14. Copper as Cu (mg/kg)	: 6.20
15. Zinc as Zn (mg/kg)	: 11.50
16. Iron as Fe (mg/kg)	: 10.38
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 10.50
b) Silt (%)	: 69.30
c) Clay (%)	: 20.20

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


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TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 8.29
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 976
3. Water Holding Capacity (%)	: 84
4. Bulk Density (gm/cc)	: 1.29
5. Available Nitrogen as N (kg/ha)	: 96
6. Available Phosphorous as P_2O_5 (kg/ha)	: 37.40
7. Available Potassium as K_2O (kg/ha)	: 132.62
8. Phosphorus as P (Kg/Ha)	: 11.51
9. Organic Carbon (%)	: 0.18
10. Organic Matter (%)	: 0.31
11. Calcium as Ca (mg/kg)	: 1,136
12. Sodium as Na (mg/kg)	: 257
13. Potassium as K (mg/kg)	: 69
14. Copper as Cu (mg/kg)	: 5.38
15. Zinc as Zn (mg/kg)	: 13.20
16. Iron as Fe (mg/kg)	: 7.40
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 13.50
b) Silt (%)	: 58.60
c) Clay (%)	: 27.90

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

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TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 8.04
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 720
3. Water Holding Capacity (%)	: 76
4. Bulk Density (gm/cc)	: 1.34
5. Available Nitrogen as N (kg/ha)	: 88
6. Available Phosphorous as P_2O_5 (kg/ha)	: 41.60
7. Available Potassium as K_2O (kg/ha)	: 138.50
8. Phosphorus as P (Kg/Ha)	: 12.80
9. Organic Carbon (%)	: 0.27
10. Organic Matter (%)	: 0.46
11. Calcium as Ca (mg/kg)	: 1,590
12. Sodium as Na (mg/kg)	: 326
13. Potassium as K (mg/kg)	: 87
14. Copper as Cu (mg/kg)	: 8.71
15. Zinc as Zn (mg/kg)	: 14.62
16. Iron as Fe (mg/kg)	: 6.53
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Sandy Clay loam
a) Sand (%)	: 46.50
b) Silt (%)	: 30.20
c) Clay (%)	: 23.30

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

SOIL ANALYSIS

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

Sample Particulars : Near Plant Maingate Area
Date of Collection : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 7.96
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 894
3. Water Holding Capacity (%)	: 68
4. Bulk Density (gm/cc)	: 1.31
5. Available Nitrogen as N (kg/ha)	: 125.60
6. Available Phosphorous as P_2O_5 (kg/ha)	: 45.90
7. Available Potassium as K_2O (kg/ha)	: 147.40
8. Phosphorus as P (Kg/Ha)	: 14.12
9. Organic Carbon (%)	: 0.25
10. Organic Matter (%)	: 0.43
11. Calcium as Ca (mg/kg)	: 1,374
12. Sodium as Na (mg/kg)	: 381
13. Potassium as K (mg/kg)	: 96
14. Copper as Cu (mg/kg)	: 6.31
15. Zinc as Zn (mg/kg)	: 9.59
16. Iron as Fe (mg/kg)	: 10.22
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Loam
a) Sand (%)	: 10.80
b) Silt (%)	: 62.90
c) Clay (%)	: 26.30

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

SOIL ANALYSIS

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

Sample Particulars : **West side of the Boundary**
Date of Collection : **22-3-2025**
Date of Analysis : **24-3-2025**

1. pH (1:5 Soil Water Extract)	:	8.40
2. E.C (microsiemens/cm)	:	935
(1:5 soil water extract)		
3. Water Holding Capacity (%)	:	72
4. Bulk Density (gm/cc)	:	1.30
5. Available Nitrogen as N (kg/ha)	:	119.40
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	:	42.60
7. Available Potassium as K ₂ O (kg/ha)	:	135.70
8. Phosphorus as P (Kg/Ha)	:	13.10
9. Organic Carbon (%)	:	0.16
10. Organic Matter (%)	:	0.27
11. Calcium as Ca (mg/kg)	:	1,251
12. Sodium as Na (mg/kg)	:	397
13. Potassium as K (mg/kg)	:	84
14. Copper as Cu (mg/kg)	:	5.95
15. Zinc as Zn (mg/kg)	:	8.30
16. Iron as Fe (mg/kg)	:	7.24
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	Silty Loam
a) Sand (%)	:	18.50
b) Silt (%)	:	59.70
c) Clay (%)	:	21.80

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


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TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 7.67
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 620
3. Water Holding Capacity (%)	: 80
4. Bulk Density (gm/cc)	: 1.32
5. Available Nitrogen as N (kg/ha)	: 86.90
6. Available Phosphorous as P ₂ O ₅ (kg/ha)	: 45.20
7. Available Potassium as K ₂ O (kg/ha)	: 148.64
8. Phosphorus as P (Kg/Ha)	: 13.90
9. Organic Carbon (%)	: 0.24
10. Organic Matter (%)	: 0.41
11. Calcium as Ca (mg/kg)	: 1,028.50
12. Sodium as Na (mg/kg)	: 332
13. Potassium as K (mg/kg)	: 91
14. Copper as Cu (mg/kg)	: 5.26
15. Zinc as Zn (mg/kg)	: 9.21
16. Iron as Fe (mg/kg)	: 8.30
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Loam
a) Sand (%)	: 38.60
b) Silt (%)	: 40.50
c) Clay (%)	: 20.90

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


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TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 7.74
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 1,026
3. Water Holding Capacity (%)	: 73
4. Bulk Density (gm/cc)	: 1.28
5. Available Nitrogen as N (kg/ha)	: 79.30
6. Available Phosphorous as P_2O_5 (kg/ha)	: 48.63
7. Available Potassium as K_2O (kg/ha)	: 137.21
8. Phosphorus as P (Kg/Ha)	: 14.96
9. Organic Carbon (%)	: 0.23
10. Organic Matter (%)	: 0.40
11. Calcium as Ca (mg/kg)	: 793
12. Sodium as Na (mg/kg)	: 308
13. Potassium as K (mg/kg)	: 126
14. Copper as Cu (mg/kg)	: 6.30
15. Zinc as Zn (mg/kg)	: 13.64
16. Iron as Fe (mg/kg)	: 10.06
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Clay Loam
a) Sand (%)	: 12.20
b) Silt (%)	: 60.80
c) Clay (%)	: 27.00

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


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TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	: 7.88
2. E.C (microsiemens/cm) (1:5 soil water extract)	: 675
3. Water Holding Capacity (%)	: 82
4. Bulk Density (gm/cc)	: 1.27
5. Available Nitrogen as N (kg/ha)	: 83.20
6. Available Phosphorous as P_2O_5 (kg/ha)	: 40.37
7. Available Potassium as K_2O (kg/ha)	: 126.20
8. Phosphorus as P (Kg/Ha)	: 12.42
9. Organic Carbon (%)	: 0.30
10. Organic Matter (%)	: 0.52
11. Calcium as Ca (mg/kg)	: 1,390
12. Sodium as Na (mg/kg)	: 364
13. Potassium as K (mg/kg)	: 107
14. Copper as Cu (mg/kg)	: 4.92
15. Zinc as Zn (mg/kg)	: 12.59
16. Iron as Fe (mg/kg)	: 9.36
17. Manganese as Mn (mg/kg)	: <2.0
18. Texture	: Silty Clay Loam
a) Sand (%)	: 12.60
b) Silt (%)	: 58.30
c) Clay (%)	: 29.10

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


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Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

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ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 22-3-2025
Date of Analysis : 24-3-2025

1. pH (1:5 Soil Water Extract)	:	8.15
2. E.C (microsiemens/cm) (1:5 soil water extract)	:	768
3. Water Holding Capacity (%)	:	65
4. Bulk Density (gm/cc)	:	1.25
5. Available Nitrogen as N (kg/ha)	:	89.36
6. Available Phosphorous as P_2O_5 (kg/ha)	:	38.21
7. Available Potassium as K_2O (kg/ha)	:	130.46
8. Phosphorus as P (Kg/Ha)	:	11.75
9. Organic Carbon (%)	:	0.20
10. Organic Matter (%)	:	0.34
11. Calcium as Ca (mg/kg)	:	1,171
12. Sodium as Na (mg/kg)	:	348
13. Potassium as K (mg/kg)	:	96
14. Copper as Cu (mg/kg)	:	7.30
15. Zinc as Zn (mg/kg)	:	8.42
16. Iron as Fe (mg/kg)	:	11.28
17. Manganese as Mn (mg/kg)	:	<2.0
18. Texture	:	Silty Loam
a) Sand (%)	:	11.70
b) Silt (%)	:	68.50
c) Clay (%)	:	19.80

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


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REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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 : 18-3-2025
Date of Analysis : 22-3-2025

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. B. Satyanarayana Reddy	8060837	Male	P & QC	48	0.08	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 : 01-6-2024
Calibration due On: 31-5-2025


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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 : 18-3-2025
Date of Analysis : 22-3-2025

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. B. Veera Swami	80106	Male	P & QC	37	0.21	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
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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 : 18-3-2025

Date of Analysis : 22-3-2025

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	37	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
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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 : 18-3-2025
Date of Analysis : 22-3-2025

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	49	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
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Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 18-3-2025
Date of Analysis : 22-3-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Bag Diverter	Mr. Dul Chand	8010132	Male	Packing Plant	27	0.27	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
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Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 19-3-2025
Date of Analysis : 22-3-2025

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	30	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 : 01-6-2024
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Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
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Suryapet (Dist) - 508 204.

Date of Collection : 19-3-2025
Date of Analysis : 22-3-2025

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. Subod Mahto	8010382	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
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Calibration due On: 31-5-2025


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Suryapet (Dist) - 508 204.

Date of Collection : 19-3-2025
Date of Analysis : 22-3-2025

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. Nanda Kishore Kumar	8010375	Male	Packing Plant	24	0.28	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 : 01-6-2024
Calibration due On: 31-5-2025


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Suryapet (Dist) - 508 204.

Date of Collection : 19-3-2025
Date of Analysis : 22-3-2025

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	30	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 : 01-6-2024
Calibration due On: 31-5-2025


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

Date of Collection : 19-3-2025

Date of Analysis : 22-3-2025

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. T. Narasimha Rao	10102	Male	P & QC	46	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 : 01-6-2024
Calibration due On: 31-5-2025


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

Date of Collection : 20-3-2025

Date of Analysis : 22-3-2025

Location	Name of Employee	ID No.	Gender	Section	Age	Dust Concentration (mg/m ³)	Limit (mg/m ³)	Free Silica Content (%)	Limit (%)
Coal Mill – 1 Operator	Mr. K. Saidi Reddy	800087	Male	P & QC	50	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 : 01-6-2024
Calibration due On: 31-5-2025

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Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 20-3-2025
Date of Analysis : 22-3-2025

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. B. Narasimha Nayak	8000125	Male	P & QC	35	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 : 01-6-2024
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Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 20-3-2025
Date of Analysis : 22-3-2025

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	32	0.16	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
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Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 20-3-2025
Date of Analysis : 22-3-2025

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. M. Naresh	8000243	Male	P & QC	30	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
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Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED,**
Mattampally (Post & Mandal),
Suryapet (Dist) - 508 204.

Date of Collection : 20-3-2025
Date of Analysis : 22-3-2025

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. M. Ranjith Reddy	8060937	Male	P & QC	32	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 : 01-6-2024
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AMBIENT AIR QUALITY DATA

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

Location	CPP Entrance	LIMIT	PROTOCOL/METHOD
1. Date of sampling	21-3-2025	--	---
2. Date of Analysis	22-3-2025	--	---
3. Total time of monitoring	24 hr	--	---
4. Average flow rate (cum/min)	1.11	--	---
5. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM ₁₀	68	100	IS:5182 (Part-23); 2017 Gravimetric Method
6. Particulate matter Concentration ($\mu\text{g}/\text{m}^3$) -PM _{2.5}	27	60	IS:5182 (Part-24); 2019 Gravimetric Method
7. Sulphur dioxide (SO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	12	80	IS:5182 (Part-2); 2018 New West & Gaeke Method
8. Nitrogen dioxide (NO ₂) Concentration ($\mu\text{g}/\text{m}^3$)	24	80	IS:5182 (Part-6); 2017 JACOB & Hochheiser Method
9. CO, Concentration (mg/m^3) :	0.025	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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Report Date: 31-3-2025

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	21-3-2025	22-3-2025	1,558	2000 ($\mu\text{g}/\text{m}^3$)
2	Coal Yard	21-3-2025	22-3-2025	1,746	


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

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

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LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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



ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

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	:	18-3-2025	--
2. Date of analysis	:	22-3-2025	--
3. Location	:	Chimney	--
4. Stack diameter (m)	:	3.50	--
5. Stack cross sectional area (sq m)	:	9.62	--
6. Ambient temperature ($^{\circ}\text{C}$)	:	36	--
7. Flue gas temperature ($^{\circ}\text{C}$)	:	126	IS:11255 (Part-3); 2018
8. Exit velocity of flue gases (m/sec)	:	5.31	IS:11255 (Part-3); 2018
9. Flow rate (m^3/hr)	:	1,83,896	IS:11255 (Part-3); 2018
10. Flow rate ($\text{N m}^3/\text{hr}$)	:	1,35,432	IS:11255 (Part-3); 2018

EMISSION DATA

LIMITS

11. Particulate matter Concentration (mg/Nm^3)	:	21.25	30	IS:11255 (Part-1); 2019
12. Sulphur dioxide Concentration (mg/Nm^3)	:	37.50	100	IS:11255 (Part-2); 2019
13. Oxides of nitrogen Concentration (mg/Nm^3)	:	61.40	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



ISO 9001, 14001 & 45001
Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

WASTE WATER QUALITY ANALYSIS

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

Sample Particulars : Captive Power Plant - 18 MW Discharge Water
Date of Collection : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	8.23	6.50-8.50
2. Total dissolved solids	:	1,596	2100
3. Total Suspended solids (at 103-105 °C)	:	48	100
4. Chemical oxygen demand	:	80.20	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	13.10	30
6. Chlorides as Cl	:	438	600
7. Sulphates as SO ₄	:	156	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	1.80	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.10	1.0
12. Iron as Fe	:	0.46	1.0
13. Phosphate as P	:	0.93	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



ISO 9001, 14001 & 45001
Certified Company

REF.NO: LAWN/SCL-P/2025

Report Date: 31-3-2025

WASTE WATER QUALITY ANALYSIS

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

Sample Particulars : WHR Discharge water
Date of Collection : 22-3-2025
Date of Analysis : 24-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS: 3025

Limits as per GSR 422E

1. pH	:	8.14	6.50-8.50
2. Total dissolved solids	:	985	2100
3. Total Suspended solids (at 103-105 °C)	:	27	100
4. Chemical oxygen demand	:	39.60	250
5. Biochemical oxygen demand (3 days at 27 °C)	:	<5.0	30
6. Chlorides as Cl	:	282.50	600
7. Sulphates as SO ₄	:	72.10	1000
8. Oil & Grease	:	<1.0	10
9. Dissolved Oxygen	:	<1.0	NS
10. Free available chlorine as Cl ₂	:	<0.20	0.50
11. Copper as Cu	:	0.06	1.0
12. Iron as Fe	:	0.31	1.0
13. Phosphate as P	:	0.70	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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