



# SAGAR CEMENTS LIMITED

SCL/MTPL/ENV/2025-26/034

Date: 15.07.2025

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 **June - 2025** are enclosed.

Please acknowledge receipt of the same.

Thank you

Yours Sincerely,  
For SAGAR CEMENTS LIMITED,

*M V Ramana*

*MV*

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 : L26942TG198IPLC002887 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]

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: 26-6-2025

### 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   | 16-6-2025           | 16-6-2025         | --    | ---  |
| 2. Date of Analysis   | 19-6-2025           | 19-6-2025         | --    | ---  |
| 3. Total time of monitoring   | 24 hr               | 24 hr             | --    | ---  |
| 4. Average flow rate (cum/min)  | 1.14                | 1.06              | --    | ---  |
| 5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>  | 54.82               | 60.93             | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | 23.04               | 27.80             | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | 8.30                | 10.90             | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | 16.80               | 20.60             | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> ):  | 0.012               | 0.016             | 2     | IS:5182 (Part-10); 2019 CO Analyzer Method       |

  
AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### AMBIENT AIR QUALITY DATA

|   |   |                            |       |  |
|---|---|----------------------------|-------|--|
| Name of the Industry & Address  | : M/s. SAGAR CEMENTS LIMITED,<br>Mattampally (Post & Mandal),<br>Suryapet (Dist) - 508 204. |                            |       |  |
| Location  | : Gullapally Village  | : Ramachandrapuram Village | LIMIT | PROTOCOL/METHOD                                  |
| 1. Date of sampling   | : 16-6-2025   | : 16-6-2025                | --    | ---  |
| 2. Date of Analysis   | : 19-6-2025   | : 19-6-2025                | --    | ---  |
| 3. Total time of monitoring   | : 24 hr   | : 24 hr                    | --    | ---  |
| 4. Average flow rate (cum/min)  | : 1.08  | : 1.12                     | --    | ---  |
| 5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>  | : 49.47   | : 51.95                    | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | : 20.15   | : 22.36                    | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | : 6.20  | : 9.50                     | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | : 15.70   | : 18.70                    | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration ( $\text{mg}/\text{m}^3$ ):                                    | : 0.008   | : 0.010                    | 2     | IS:5182 (Part-10); 2019 CO Analyzer Method       |

  
AUTHORISED SIGNATORY

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

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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   | 16-6-2025       | --    | ---  |
| 2. Date of Analysis   | 19-6-2025       | --    | ---  |
| 3. Total time of monitoring   | 24 hr           | --    | ---  |
| 4. Average flow rate (cum/min)  | 1.13            | --    | ---  |
| 5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>  | 65.34           | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | 26.72           | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | 11.40           | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | 23.90           | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> )   | 0.028           | 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

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: 26-6-2025

### 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                  | 17-6-2025        | 19-6-2025        | 1,034                            | 2000 ( $\mu\text{g}/\text{m}^3$ ) |
| 2     | VRM                          | 17-6-2025        | 19-6-2025        | 1,476                            |                                   |
| 3     | Packing Plant                | 17-6-2025        | 19-6-2025        | 1,537                            |                                   |
| 4     | Crusher                      | 17-6-2025        | 19-6-2025        | 1,628                            |                                   |
| 5     | Lime Stone Stacker Reclaimer | 17-6-2025        | 19-6-2025        | 1,241                            |                                   |
| 6     | Coal Mill                    | 18-6-2025        | 19-6-2025        | 1,695                            |                                   |
| 7     | Raw Mill Area                | 18-6-2025        | 19-6-2025        | 1,338                            |                                   |
| 8     | Truck Parking Area           | 18-6-2025        | 19-6-2025        | 1,247                            |                                   |
| 9     | Coal Mill - 2                | 18-6-2025        | 19-6-2025        | 1,405                            |                                   |
| 10    | Iron Ore Yard                | 18-6-2025        | 19-6-2025        | 1,328                            |                                   |

  
AUTHORISED SIGNATORY

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2. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2161-DTH-2011), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
3. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2465-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
4. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2463-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
5. RESPIRABLE DUST SAMPLER MODEL / APM 460; (SL. NO. 2461-DTA-2019), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 16-6-2025  
Date of Analysis : 18-6-2025

### 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)           | : 110      | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 12.43    | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 8,78,403 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 6,73,272 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMITS

|  |         |     |                            |
|--|---------|-----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> )                   | : 18.50 | 30  | IS-11255<br>(Part-1); 2019 |
| 9. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )                      | : 6.00  | 100 | IS-11255<br>(Part-2); 2019 |
| 10. Nitrogen dioxide (No <sub>2</sub> ) Concentration (mg/N m <sup>3</sup> ) | : 407   | 800 | IS-11255<br>(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: 26-6-2025

### 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 : 17-6-2025  
Date of Analysis : 18-6-2025

### 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)           | : 45     | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 10.96  | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 60,762 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 56,023 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |         |    |                            |
|--|---------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : 14.20 | 30 | IS-11255<br>(Part-1); 2019 |
|--|---------|----|----------------------------|

AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 16-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|  |   |        |                            |
|--|---|--------|----------------------------|
| 1. Stack diameter (m)                  | : | 1.20   | --                         |
| 2. Stack cross sectional area (sq m)   | : | 1.13   | --                         |
| 3. Ambient temperature (°C)            | : | 35     | --                         |
| 4. Flue gas temperature (°C)           | : | 73     | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : | 10.25  | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : | 41,697 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : | 35,532 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |   |       |    |                            |
|--|---|-------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : | 18.70 | 30 | IS-11255<br>(Part-1); 2019 |
|--|---|-------|----|----------------------------|

  
AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Coal Mill - 3  
Date of Sampling : 16-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|  |          |                            |
|--|----------|----------------------------|
| 1. Stack diameter (m)                  | : 1.50   | --                         |
| 2. Stack cross sectional area (sq m)   | : 1.76   | --                         |
| 3. Ambient temperature (°C)            | : 36     | --                         |
| 4. Flue gas temperature (°C)           | : 66     | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 9.60   | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 60,826 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 52,740 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |         |    |                            |
|--|---------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : 19.20 | 30 | IS-11255<br>(Part-1); 2019 |
|--|---------|----|----------------------------|

AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### STACK MONITORING DATA

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

Sample Particulars : Stack attached to the Klin-2 Cooler ESP  
Date of Sampling : 17-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|  |            |                            |
|--|------------|----------------------------|
| 1. Stack diameter (m)                  | : 3.80     | --                         |
| 2. Stack cross sectional area (sq m)   | : 11.34    | --                         |
| 3. Ambient temperature (°C)            | : 37       | --                         |
| 4. Flue gas temperature (°C)           | : 130      | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 8.74     | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 3,56,802 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 2,60,100 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |         |    |                            |
|--|---------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : 17.92 | 30 | IS-11255<br>(Part-1); 2019 |
|--|---------|----|----------------------------|

AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 17-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|   |          |                                  |
|---|----------|----------------------------------|
| 1. Stack diameter (m)   | : 0.90   | --                               |
| 2. Stack cross sectional area (sq m)                          | : 0.636  | --                               |
| 3. Ambient temperature (°C)                                   | : 38     | --                               |
| 4. Flue gas temperature (°C)                                  | : 74     | IS-11255<br>(Part-3); 2018       |
| 5. Exit velocity of flue gases (m/sec)                        | : 9.64   | IS-11255<br>(Part-3); 2018       |
| 6. Flow rate (m <sup>3</sup> /hr)                             | : 22,072 | IS-11255<br>(Part-3); 2018       |
| 7. Flow rate (N m <sup>3</sup> /hr)                           | : 18,629 | IS-11255<br>(Part-3); 2018       |
| 8. Particulate matter<br>Concentration (mg/N m <sup>3</sup> ) | : 15.74  | 30<br>IS-11255<br>(Part-1); 2019 |

### EMISSION DATA

### LIMIT

AUTHORISED SIGNATORY

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



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Report Date: 26-6-2025

### 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 : 17-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|  |          |                            |
|--|----------|----------------------------|
| 1. Stack diameter (m)                  | : 1.40   | --                         |
| 2. Stack cross sectional area (sq m)   | : 1.54   | --                         |
| 3. Ambient temperature (°C)            | : 36     | --                         |
| 4. Flue gas temperature (°C)           | : 82     | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 7.15   | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 39,639 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 32,796 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |         |    |                            |
|--|---------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : 15.80 | 30 | IS-11255<br>(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: 26-6-2025

### 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 : 16-6-2025  
Date of Analysis : 18-6-2025

### PROTOCOL

|  |          |                            |
|--|----------|----------------------------|
| 1. Stack diameter (m)                  | : 1.40   | --                         |
| 2. Stack cross sectional area (sq m)   | : 1.54   | --                         |
| 3. Ambient temperature (°C)            | : 38     | --                         |
| 4. Flue gas temperature (°C)           | : 86     | IS-11255<br>(Part-3); 2018 |
| 5. Exit velocity of flue gases (m/sec) | : 8.10   | IS-11255<br>(Part-3); 2018 |
| 6. Flow rate (m <sup>3</sup> /hr)      | : 44,906 | IS-11255<br>(Part-3); 2018 |
| 7. Flow rate (N m <sup>3</sup> /hr)    | : 36,688 | IS-11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMIT

|  |         |    |                            |
|--|---------|----|----------------------------|
| 8. Particulate matter Concentration (mg/N m <sup>3</sup> ) | : 12.41 | 30 | IS-11255<br>(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: 26-6-2025

### 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 : 16-6-2025  
Date of Analysis : 18-6-2025

### 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)                                  | : 234      | IS-11255<br>(Part-3); 2018       |
| 5. Exit velocity of flue gases (m/sec)                        | : 17.58    | IS-11255<br>(Part-3); 2018       |
| 6. Flow rate (m <sup>3</sup> /hr)                             | : 2,51,253 | IS-11255<br>(Part-3); 2018       |
| 7. Flow rate (N m <sup>3</sup> /hr)                           | : 1,45,980 | IS-11255<br>(Part-3); 2018       |
| 8. Particulate matter<br>Concentration (mg/N m <sup>3</sup> ) | : 15.90    | 30<br>IS-11255<br>(Part-1); 2019 |

### EMISSION DATA

### LIMIT

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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: 26-6-2025

### WASTE WATER ANALYSIS

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

Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : IS - 3025

|   | S.T.P. Inlet  | S.T.P. Outlet   | S.T.P Outlet<br>LIMIT |
|---|---------------|-----------------|-----------------------|
| 1. Colour (Hazen)                                 | 3.0           | <1.0            | --                    |
| 2. Odour  | Objectionable | UnObjectionable | --                    |
| 3. pH   | 7.57          | 7.74            | 6.5 - 8.5             |
| 4. Total Dissolved Solids                         | 1,746         | 1,652           | 2,100                 |
| 5. Total Suspended Solids                         | 80            | 15              | 100                   |
| 6. Chemical oxygen demand                         | 191           | 36              | 250                   |
| 7. Biochemical oxygen demand<br>(3 days at 27 °C) | 74            | 06              | 100                   |
| 8. Oil & Grease                                   | 1.70          | <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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                     |                                       | As per IS:10500 - 2012               |  |               |
|---------------------|---------------------------------------|--------------------------------------|--|---------------|
|                     |                                       | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |               |
| 1. Colour (Hazen)   | :                                     | <1.0                                 | 5 max  | 15 max        |
| 2. Turbidity (NTU)  | :                                     | <1.0                                 | 01 max   | 05 max        |
| 3. pH               | :                                     | 7.52                                 | 6.50 - 8.50  | No relaxation |
| 4. Total hardness   | as CaCO <sub>3</sub> :                | 77                                   | 200 max  | 600 max       |
| 5. Calcium          | as Ca :                               | 17.62                                | 75 max   | 200 max       |
| 6. Magnesium        | as Mg :                               | 7.98                                 | 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 :                               | 45.08                                | 250 max  | 1000 max      |
| 11. Sulphate        | as SO <sub>4</sub> :                  | 13.04                                | 200 max  | 400 max       |
| 12. Nitrates        | as NO <sub>3</sub> :                  | 3.34                                 | 45 max   | No relaxation |
| 13. Fluorides       | as F :                                | <0.20                                | 1.0 max  | 1.5 max       |
| 14. Phenol Compunds | as C <sub>6</sub> H <sub>5</sub> OH : | <0.001                               | 0.001 max  | 0.002 max     |
| 15. Mercury         | as Hg :                               | <0.001                               | 0.001 max  | No relaxation |
| 16. Cadmium         | as Cd :                               | <0.003                               | 0.003 max  | No relaxation |
| 17. Selenium        | as Se :                               | <0.01                                | 0.01 max   | No relaxation |
| 18. Arsenic         | as As :                               | <0.01                                | 0.01 max   | 0.05 max      |

Contd....

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## TEST REPORT

:2:

|   |                      |   |           | As per IS:10500 - 2012               |  |
|---|----------------------|---|-----------|--------------------------------------|--|
|   |                      |   |           | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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                          |                      | : | 160       | 500 max                              | 2000 max   |
| 32. Total alkalinity                          | as CaCO <sub>3</sub> | : | 102       | 200 max                              | 600 max  |
| 33. Aluminium                                 | as Al                | : | <0.01     | 0.3 max                              | 0.2 max  |
| 34. Boron                                     | as B                 | : | <0.10     | 0.5 max                              | 1.0 max  |
| 35. E-Coli                                    |                      | : | Absent    | Absent                               | Absent   |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      | As per IS:10500 - 2012         |  |
|--------------------------------|----------------------|--------------------------------|--|
|                                |                      | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |
| 1. Colour (Hazen)              | :                    | <1.0                           | 5 max<br>15 max                                      |
| 2. Conductivity (micromhos/cm) | :                    | 949                            | NS<br>NS   |
| 3. Total Dissolved Solids      | :                    | 567                            | 500 max<br>2000 max                                  |
| 4. Turbidity (NTU)             | :                    | <1.0                           | 01 max<br>05 max                                     |
| 5. pH                          | :                    | 7.42                           | 6.50 - 8.50<br>No relaxation                         |
| 6. Total Suspended Solids      | :                    | <5.0                           | NS<br>NS   |
| 7. Sulphates                   | as SO <sub>4</sub>   | 62                             | 200 max<br>400 max                                   |
| 8. Phosphorus                  | as P                 | <0.10                          | NS<br>NS   |
| 9. Sodium                      | as Na                | 123.40                         | NS<br>NS   |
| 10. Potassium                  | as K                 | 3.09                           | NS<br>NS   |
| 11. Calcium                    | as Ca                | 58                             | 75 max<br>200 max                                    |
| 12. Magnesium                  | as Mg                | 12.54                          | 30 max<br>100 max                                    |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 198                            | 200 max<br>600 max                                   |
| 14. Chloride                   | as Cl                | 163                            | 250 max<br>1000 max                                  |
| 15. Fluoride                   | as F                 | 0.35                           | 1.0 max<br>1.5 max                                   |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 17                             | 45 max<br>No relaxation                              |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 163                            | 200 max<br>600 max                                   |
| 18. Acidity                    | as CaCO <sub>3</sub> | 10                             | NS<br>NS   |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | 0.08   | 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<br>Not Detected            | Should Be<br>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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      |        |             | As per IS:10500 - 2012               |  |
|--------------------------------|----------------------|--------|-------------|--------------------------------------|--|
|                                |                      |        |             | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 1. Colour (Hazen)              | :                    | <1.0   | 5 max       | 15 max                               |  |
| 2. Conductivity (micromhos/cm) | :                    | 1,148  | NS          | NS                                   |  |
| 3. Total Dissolved Solids      | :                    | 698    | 500         | 2000                                 |  |
| 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 <sub>4</sub>   | 74     | 200 max     | 400 max                              |  |
| 8. Phosphorus                  | as P                 | <0.10  | NS          | NS                                   |  |
| 9. Sodium                      | as Na                | 149.43 | NS          | NS                                   |  |
| 10. Potassium                  | as K                 | 3.73   | NS          | NS                                   |  |
| 11. Calcium                    | as Ca                | 73     | 75 max      | 200 max                              |  |
| 12. Magnesium                  | as Mg                | 13.84  | 30 max      | 100 max                              |  |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 239    | 200 max     | 600 max                              |  |
| 14. Chloride                   | as Cl                | 197    | 250 max     | 1000 max                             |  |
| 15. Fluoride                   | as F                 | 0.34   | 1.0 max     | 1.5 max                              |  |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 20.82  | 45 max      | No relaxation                        |  |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 198    | 200 max     | 600 max                              |  |
| 18. Acidity                    | as CaCO <sub>3</sub> | 25     | NS          | NS                                   |  |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Total Iron             | as Fe | : | 0.16   | 0.3 max                              | No relaxation  |
| 20. Nickel                 | as Ni | : | <0.01  | 0.2 max                              | No relaxation  |
| 21. Manganese              | as Mn | : | <0.01  | 0.1 max                              | 0.3 max  |
| 22. Copper                 | as Cu | : | 0.13   | 0.05 max                             | 1.5 max  |
| 23. Zinc                   | as Zn | : | 0.30   | 5.0 max                              | 15 max   |
| 24. Lead                   | as Pb | : | <0.01  | 0.01 max                             | No relaxation  |
| 25. Arsenic                | as As | : | <0.01  | 0.01 max                             | 0.05 max   |
| 26. Chromium               | as Cr | : | <0.01  | 0.05 max                             | No relaxation  |
| 27. Cadmium                | as Cd | : | <0.01  | 0.003 max                            | No relaxation  |
| 28. Total Coliform Count   |       | : | Absent | Should Be<br>Not Detected            | Should Be<br>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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      |        |             | As per IS:10500 - 2012               |  |
|--------------------------------|----------------------|--------|-------------|--------------------------------------|--|
|                                |                      |        |             | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 1. Colour (Hazen)              | :                    | <1.0   | 5 max       | 15 max                               |  |
| 2. Conductivity (micromhos/cm) | :                    | 876    | NS          | NS                                   |  |
| 3. Total Dissolved Solids      | :                    | 524    | 500 max     | 2000 max                             |  |
| 4. Turbidity (NTU)             | :                    | <1.0   | 01 max      | 05 max                               |  |
| 5. pH                          | :                    | 7.64   | 6.50 - 8.50 | No relaxation                        |  |
| 6. Total Suspended Solids      | :                    | <5.0   | NS          | NS                                   |  |
| 7. Sulphates                   | as SO <sub>4</sub>   | 57.10  | 200 max     | 400 max                              |  |
| 8. Phosphorus                  | as P                 | <0.10  | NS          | NS                                   |  |
| 9. Sodium                      | as Na                | 77.65  | NS          | NS                                   |  |
| 10. Potassium                  | as K                 | 4.81   | NS          | NS                                   |  |
| 11. Calcium                    | as Ca                | 80     | 75 max      | 200 max                              |  |
| 12. Magnesium                  | as Mg                | 15.78  | 30 max      | 100 max                              |  |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 265    | 200 max     | 600 max                              |  |
| 14. Chloride                   | as Cl                | 152.04 | 250 max     | 1000 max                             |  |
| 15. Fluoride                   | as F                 | 0.28   | 1.0 max     | 1.5 max                              |  |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 16.09  | 45 max      | No relaxation                        |  |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 153    | 200 max     | 600 max                              |  |
| 18. Acidity                    | as CaCO <sub>3</sub> | 11     | NS          | NS                                   |  |

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Certified Company

## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | 0.15   | 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<br>Not Detected            | Should Be<br>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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

As per IS:10500 - 2012

|                                |                      |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
|--------------------------------|----------------------|--------|--------------------------------------|--|
| 1. Colour (Hazen)              | :                    | <5.0   | 5 max                                | 15 max   |
| 2. Conductivity (micromhos/cm) | :                    | 1,201  | NS                                   | NS   |
| 3. Total Dissolved Solids      | :                    | 732    | 500 max                              | 2000 max   |
| 4. Turbidity (NTU)             | :                    | <1.0   | 01 max                               | 05 max   |
| 5. pH                          | :                    | 7.86   | 6.50 - 8.50                          | No relaxation  |
| 6. Total Suspended Solids      | :                    | <5.0   | NS                                   | NS   |
| 7. Sulphates                   | as SO <sub>4</sub>   | 78.14  | 200 max                              | 400 max  |
| 8. Phosphorus                  | as P                 | <0.10  | NS                                   | NS   |
| 9. Sodium                      | as Na                | 158.13 | NS                                   | NS   |
| 10. Potassium                  | as K                 | 3.96   | NS                                   | NS   |
| 11. Calcium                    | as Ca                | 67     | 75 max                               | 200 max  |
| 12. Magnesium                  | as Mg                | 20.91  | 30 max                               | 100 max  |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 253.26 | 200 max                              | 600 max  |
| 14. Chloride                   | as Cl                | 208.12 | 250 max                              | 1000 max   |
| 15. Fluoride                   | as F                 | 0.31   | 1.0 max                              | 1.5 max  |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 22.0   | 45 max                               | No relaxation  |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 209    | 200 max                              | 600 max  |
| 18. Acidity                    | as CaCO <sub>3</sub> | 17     | NS                                   | NS   |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Total Iron             | as Fe | : | 0.20   | 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 | : | 0.08   | 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<br>Not Detected            | Should Be<br>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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|   |   | As per IS:10500 - 2012         |  |
|---|---|--------------------------------|--|
|   |   | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |
| 1. Colour (Hazen)                         | : | <1.0                           | 5 max<br>15 max                                      |
| 2. Conductivity (micromhos/cm)            | : | 792                            | NS<br>NS   |
| 3. Total Dissolved Solids                 | : | 687                            | 500<br>2000  |
| 4. Turbidity (NTU)                        | : | <1.0                           | 01 max<br>05 max                                     |
| 5. pH                                     | : | 7.70                           | 6.50 - 8.50<br>No relaxation                         |
| 6. Total Suspended Solids                 | : | <5.0                           | NS<br>NS   |
| 7. Sulphates as SO <sub>4</sub>           | : | 51.12                          | 200 max<br>400 max                                   |
| 8. Phosphorus as P                        | : | <0.10                          | NS<br>NS   |
| 9. Sodium as Na                           | : | 103.28                         | NS<br>NS   |
| 10. Potassium as K                        | : | 2.40                           | NS<br>NS   |
| 11. Calcium as Ca                         | : | 45                             | 75 max<br>200 max                                    |
| 12. Magnesium as Mg                       | : | 13.03                          | 30 max<br>100 max                                    |
| 13. Total Hardness as CaCO <sub>3</sub>   | : | 166                            | 200 max<br>600 max                                   |
| 14. Chloride as Cl                        | : | 136                            | 250 max<br>1000 max                                  |
| 15. Fluoride as F                         | : | 0.40                           | 1.0 max<br>1.5 max                                   |
| 16. Nitrate Nitrogen as NO <sub>3</sub>   | : | 14                             | 45 max<br>No relaxation                              |
| 17. Total Alkalinity as CaCO <sub>3</sub> | : | 137                            | 200 max<br>600 max                                   |
| 18. Acidity as CaCO <sub>3</sub>          | : | 07                             | NS<br>NS   |

Contd.....

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | 0.08   | 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<br>Not Detected            | Should Be<br>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: 26-6-2025

### 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                | : | 65.10            | 60.30      |
| 2. Near Gullapally Village       | : | 51.70            | 40.40      |
| 3. Near Ramachandrapuram Village | : | 48.30            | 39.50      |
| 4. Near Mattampally Village      | : | 50.60            | 41.70      |
| 5. Near Peddaveedu Village       | : | 52.80            | 43.20      |

- Note:**
1. Noise levels are monitored on 18-6-2025.
  2. Instrument make - Lutron SL – 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
  3. Day time is reckoned in between 6.0 am and 10.0 pm; Limit <75.0 dB (A) – As per NAAQ
  4. Night time is reckoned in between 10.0 pm and 6.0 am; Limit <70.0 dB (A) – As per NAAQ

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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        | 80.20            | 75.60 | 77.90 |
| 2. Near Coal Mill - 3          | 77.50            | 72.30 | 74.90 |
| 3. Near VRM area               | 81.40            | 76.20 | 78.80 |
| 4. Near Kiln - 1               | 83.60            | 77.30 | 80.45 |
| 5. Near Kiln - II              | 82.90            | 76.80 | 79.85 |
| 6. Near WHR Boiler area        | 84.70            | 79.10 | 81.90 |
| 7. Near Cement Mill - 3        | 79.20            | 74.80 | 77.00 |
| 8. Near Packing Plant          | 77.80            | 72.90 | 75.35 |
| 9. Near AFR area               | 78.50            | 73.90 | 76.15 |
| 10. Near STP area              | 71.20            | 66.40 | 68.80 |
| 11. Near Limestone Reclaimer   | 73.60            | 68.60 | 71.10 |
| 12. Truck Parking Area         | 69.10            | 64.20 | 66.65 |
| 13. Captive Power Plant Boiler | 83.80            | 77.40 | 80.60 |
| 14. Coal Handling Area (CPP)   | 79.10            | 74.70 | 76.90 |
| 15. Turbine Generator Area     | 85.40            | 80.20 | 82.80 |

- Note:** \*I 1. Noise levels monitoring conducted on 17-6-2025.  
2. Instrument make - Lutron SL - 4001 / G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
- \*II The noise Pollution (Regulation and Control) Rules, 2000  
Schedule, Rule 3(1) and 4(1), Section 7 - (IX) factories act - Limit <90 dB (A)

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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |                        |
|---|---|------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 7.82                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 515                    |
| 3. Water Holding Capacity (%)                                     | : | 78                     |
| 4. Bulk Density (gm/cc)   | : | 1.26                   |
| 5. Available Nitrogen as N (kg/ha)                                | : | 107                    |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 29.62                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 137                    |
| 8. Phosphorus as P (Kg/Ha)  | : | 09                     |
| 9. Organic Carbon (%)   | : | 0.20                   |
| 10. Organic Matter (%)  | : | 0.35                   |
| 11. Calcium as Ca (mg/kg)   | : | 1,320                  |
| 12. Sodium as Na (mg/kg)  | : | 120                    |
| 13. Potassium as K (mg/kg)  | : | 55                     |
| 14. Copper as Cu (mg/kg)  | : | 3.54                   |
| 15. Zinc as Zn (mg/kg)  | : | 7.55                   |
| 16. Iron as Fe (mg/kg)  | : | 5.31                   |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0                   |
| 18. Texture   | : | <b>Silty Clay Loam</b> |
| a) Sand (%)   | : | 18.10                  |
| b) Silt (%)   | : | 60.40                  |
| c) Clay (%)   | : | 21.50                  |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |                   |
|---|---|-------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 7.68              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 695               |
| 3. Water Holding Capacity (%)                                     | : | 82                |
| 4. Bulk Density (gm/cc)   | : | 1.35              |
| 5. Available Nitrogen as N (kg/ha)                                | : | 87                |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 32.24             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 92                |
| 8. Phosphorus as P (Kg/Ha)  | : | 9.92              |
| 9. Organic Carbon (%)   | : | 0.17              |
| 10. Organic Matter (%)  | : | 0.29              |
| 11. Calcium as Ca (mg/kg)   | : | 1,026             |
| 12. Sodium as Na (mg/kg)  | : | 181               |
| 13. Potassium as K (mg/kg)  | : | 43                |
| 14. Copper as Cu (mg/kg)  | : | 4.96              |
| 15. Zinc as Zn (mg/kg)  | : | 9.20              |
| 16. Iron as Fe (mg/kg)  | : | 8.30              |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0              |
| 18. Texture   | : | <b>Silty Loam</b> |
| a) Sand (%)   | : | 11.30             |
| b) Silt (%)   | : | 66.40             |
| c) Clay (%)   | : | 22.30             |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 8.10              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 895               |
| 3. Water Holding Capacity (%)                                     | : 76                |
| 4. Bulk Density (gm/cc)   | : 1.20              |
| 5. Available Nitrogen as N (kg/ha)                                | : 87                |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 34.03             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 120.68            |
| 8. Phosphorus as P (Kg/Ha)  | : 10.47             |
| 9. Organic Carbon (%)   | : 0.15              |
| 10. Organic Matter (%)  | : 0.26              |
| 11. Calcium as Ca (mg/kg)   | : 1,034             |
| 12. Sodium as Na (mg/kg)  | : 234               |
| 13. Potassium as K (mg/kg)  | : 63                |
| 14. Copper as Cu (mg/kg)  | : 4.89              |
| 15. Zinc as Zn (mg/kg)  | : 12.01             |
| 16. Iron as Fe (mg/kg)  | : 6.73              |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. Texture   | : <b>Silty Loam</b> |
| a) Sand (%)   | : 11.10             |
| b) Silt (%)   | : 60.20             |
| c) Clay (%)   | : 28.70             |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |                        |
|---|---|------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 8.36                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 638                    |
| 3. Water Holding Capacity (%)                                     | : | 84                     |
| 4. Bulk Density (gm/cc)   | : | 1.31                   |
| 5. Available Nitrogen as N (kg/ha)                                | : | 83                     |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 36.60                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 121.88                 |
| 8. Phosphorus as P (Kg/Ha)  | : | 11.26                  |
| 9. Organic Carbon (%)   | : | 0.20                   |
| 10. Organic Matter (%)  | : | 0.35                   |
| 11. Calcium as Ca (mg/kg)   | : | 1,399                  |
| 12. Sodium as Na (mg/kg)  | : | 297                    |
| 13. Potassium as K (mg/kg)  | : | 79                     |
| 14. Copper as Cu (mg/kg)  | : | 7.92                   |
| 15. Zinc as Zn (mg/kg)  | : | 13.30                  |
| 16. Iron as Fe (mg/kg)  | : | 5.94                   |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0                   |
| 18. Texture   | : | <b>Sandy Clay loam</b> |
| a) Sand (%)   | : | 48.40                  |
| b) Silt (%)   | : | 34.30                  |
| c) Clay (%)   | : | 17.30                  |

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

  
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[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: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.65              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 804               |
| 3. Water Holding Capacity (%)                                     | : 72                |
| 4. Bulk Density (gm/cc)   | : 1.26              |
| 5. Available Nitrogen as N (kg/ha)                                | : 113.04            |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 40.85             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 131.18            |
| 8. Phosphorus as P (Kg/Ha)  | : 12.56             |
| 9. Organic Carbon (%)   | : 0.19              |
| 10. Organic Matter (%)  | : 0.33              |
| 11. Calcium as Ca (mg/kg)   | : 1,223             |
| 12. Sodium as Na (mg/kg)  | : 339               |
| 13. Potassium as K (mg/kg)  | : 85                |
| 14. Copper as Cu (mg/kg)  | : 5.61              |
| 15. Zinc as Zn (mg/kg)  | : 8.53              |
| 16. Iron as Fe (mg/kg)  | : 9.09              |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. Texture   | : <b>Silty Loam</b> |
| a) Sand (%)   | : 14.30             |
| b) Silt (%)   | : 66.20             |
| c) Clay (%)   | : 19.50             |

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

AUTHORISED SIGNATORY

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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 8.24              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 856               |
| 3. Water Holding Capacity (%)                                     | : 78                |
| 4. Bulk Density (gm/cc)   | : 1.28              |
| 5. Available Nitrogen as N (kg/ha)                                | : 108.60            |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 38.76             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 123.48            |
| 8. Phosphorus as P (Kg/Ha)  | : 11.92             |
| 9. Organic Carbon (%)   | : 0.14              |
| 10. Organic Matter (%)  | : 0.24              |
| 11. Calcium as Ca (mg/kg)   | : 1,138             |
| 12. Sodium as Na (mg/kg)  | : 361               |
| 13. Potassium as K (mg/kg)  | : 76                |
| 14. Copper as Cu (mg/kg)  | : 5.41              |
| 15. Zinc as Zn (mg/kg)  | : 7.55              |
| 16. Iron as Fe (mg/kg)  | : 6.58              |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. Texture   | : <b>Silty Loam</b> |
| a) Sand (%)   | : 16.30             |
| b) Silt (%)   | : 61.50             |
| c) Clay (%)   | : 22.20             |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                          |
|---|--------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.80                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 682                    |
| 3. Water Holding Capacity (%)                                     | : 74                     |
| 4. Bulk Density (gm/cc)   | : 1.36                   |
| 5. Available Nitrogen as N (kg/ha)                                | : 95.59                  |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 49.72                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 163.50                 |
| 8. Phosphorus as P (Kg/Ha)  | : 15.29                  |
| 9. Organic Carbon (%)   | : 0.18                   |
| 10. Organic Matter (%)  | : 0.31                   |
| 11. Calcium as Ca (mg/kg)   | : 1,131.35               |
| 12. Sodium as Na (mg/kg)  | : 365                    |
| 13. Potassium as K (mg/kg)  | : 100                    |
| 14. Copper as Cu (mg/kg)  | : 5.78                   |
| 15. Zinc as Zn (mg/kg)  | : 10.13                  |
| 16. Iron as Fe (mg/kg)  | : 9.13                   |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0                   |
| 18. Texture   | : <b>Sandy Clay Loam</b> |
| a) Sand (%)   | : 31.30                  |
| b) Silt (%)   | : 45.10                  |
| c) Clay (%)   | : 23.60                  |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                          |
|---|--------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 8.31                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 904                    |
| 3. Water Holding Capacity (%)                                     | : 70                     |
| 4. Bulk Density (gm/cc)   | : 1.22                   |
| 5. Available Nitrogen as N (kg/ha)                                | : 69.78                  |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 42.79                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 120.74                 |
| 8. Phosphorus as P (Kg/Ha)  | : 13.61                  |
| 9. Organic Carbon (%)   | : 0.15                   |
| 10. Organic Matter (%)  | : 0.26                   |
| 11. Calcium as Ca (mg/kg)   | : 721                    |
| 12. Sodium as Na (mg/kg)  | : 721                    |
| 13. Potassium as K (mg/kg)  | : 280                    |
| 14. Copper as Cu (mg/kg)  | : 5.73                   |
| 15. Zinc as Zn (mg/kg)  | : 12.41                  |
| 16. Iron as Fe (mg/kg)  | : 9.15                   |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0                   |
| 18. Texture   | : <b>Silty Clay Loam</b> |
| a) Sand (%)   | : 14.10                  |
| b) Silt (%)   | : 59.40                  |
| c) Clay (%)   | : 26.50                  |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                          |
|---|--------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.62                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 610                    |
| 3. Water Holding Capacity (%)                                     | : 79                     |
| 4. Bulk Density (gm/cc)   | : 1.32                   |
| 5. Available Nitrogen as N (kg/ha)                                | : 74.88                  |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 36.33                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 113.58                 |
| 8. Phosphorus as P (Kg/Ha)  | : 11.17                  |
| 9. Organic Carbon (%)   | : 0.15                   |
| 10. Organic Matter (%)  | : 0.26                   |
| 11. Calcium as Ca (mg/kg)   | : 1,251                  |
| 12. Sodium as Na (mg/kg)  | : 328                    |
| 13. Potassium as K (mg/kg)  | : 96                     |
| 14. Copper as Cu (mg/kg)  | : 4.42                   |
| 15. Zinc as Zn (mg/kg)  | : 11.33                  |
| 16. Iron as Fe (mg/kg)  | : 8.42                   |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0                   |
| 18. Texture   | : <b>Silty Clay Loam</b> |
| a) Sand (%)   | : 14.20                  |
| b) Silt (%)   | : 55.50                  |
| c) Clay (%)   | : 30.30                  |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.90              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 701               |
| 3. Water Holding Capacity (%)                                     | : 70                |
| 4. Bulk Density (gm/cc)   | : 1.29              |
| 5. Available Nitrogen as N (kg/ha)                                | : 81.31             |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 34.77             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 118.71            |
| 8. Phosphorus as P (Kg/Ha)  | : 10.69             |
| 9. Organic Carbon (%)   | : 0.25              |
| 10. Organic Matter (%)  | : 0.43              |
| 11. Calcium as Ca (mg/kg)   | : 1,066             |
| 12. Sodium as Na (mg/kg)  | : 317               |
| 13. Potassium as K (mg/kg)  | : 87                |
| 14. Copper as Cu (mg/kg)  | : 6.64              |
| 15. Zinc as Zn (mg/kg)  | : 7.66              |
| 16. Iron as Fe (mg/kg)  | : 10.26             |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. <b>Texture</b>  | : <b>Silty Loam</b> |
| a) Sand (%)   | : 13.20             |
| b) Silt (%)   | : 66.50             |
| c) Clay (%)   | : 20.30             |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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   | 19-6-2025    | --    | ---  |
| 2. Date of Analysis   | 20-6-2025    | --    | ---  |
| 3. Total time of monitoring   | 24 hr        | --    | ---  |
| 4. Average flow rate (cum/min)  | 1.15         | --    | ---  |
| 5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>  | 73.15        | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | 30.81        | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | 12.40        | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | 24.50        | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> )   | 0.028        | 2     | IS:5182 (Part-10); 2019 CO Analyzer Method       |

AUTHORISED SIGNATORY

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

1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 | 19-6-2025        | 20-6-2025        | 1,774                            | 2000 ( $\mu\text{g}/\text{m}^3$ ) |
| 2     | Coal Yard           | 19-6-2025        | 20-6-2025        | 1,590                            |                                   |

AUTHORISED SIGNATORY

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



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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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                     | : | 17-6-2025      | --                         |
| 2. Date of analysis                     | : | 20-6-2025      | --                         |
| 3. Location                             | : | <b>Chimney</b> | --                         |
| 4. Stack diameter (m)                   | : | 3.50           | --                         |
| 5. Stack cross sectional area (sq m)    | : | 9.62           | --                         |
| 6. Ambient temperature ( $^{\circ}$ C)  | : | 38             | --                         |
| 7. Flue gas temperature ( $^{\circ}$ C) | : | 124            | IS:11255<br>(Part-3); 2018 |
| 8. Exit velocity of flue gases (m/sec)  | : | 5.11           | IS:11255<br>(Part-3); 2018 |
| 9. Flow rate ( $m^3/hr$ )               | : | 1,76,969       | IS:11255<br>(Part-3); 2018 |
| 10. Flow rate ( $N m^3/hr$ )            | : | 1,30,968       | IS:11255<br>(Part-3); 2018 |

### EMISSION DATA

### LIMITS

|  |   |       |      |                            |
|--|---|-------|------|----------------------------|
| 11. Particulate matter Concentration ( $mg/Nm^3$ ) | : | 22.50 | 30   | IS:11255<br>(Part-1); 2019 |
| 12. Sulphur dioxide Concentration ( $mg/Nm^3$ )    | : | 43.20 | 100  | IS:11255<br>(Part-2); 2019 |
| 13. Oxides of nitrogen Concentration ( $mg/Nm^3$ ) | : | 59.60 | 100  | IS:11255<br>(Part-7); 2017 |
| 14. Mercury Concentration ( $mg/Nm^3$ )            | : | <0.01 | 0.03 | --                         |

STACK MONITORING KIT : MODEL NO: APM-160/SI. No. 138-DTK-2020, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026

  
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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

|   |   |       |           |
|---|---|-------|-----------|
| 1. pH   | : | 7.67  | 6.50-8.50 |
| 2. Total dissolved solids                         | : | 1,520 | 2100      |
| 3. Total Suspended solids<br>(at 103-105 °C)      | : | 44    | 100       |
| 4. Chemical oxygen demand                         | : | 80.20 | 250       |
| 5. Biochemical oxygen demand<br>(3 days at 27 °C) | : | 11.70 | 30        |
| 6. Chlorides as Cl                                | : | 418   | 600       |
| 7. Sulphates as SO <sub>4</sub>                   | : | 140   | 1000      |
| 8. Oil & Grease                                   | : | <1.0  | 10        |
| 9. Dissolved Oxygen                               | : | 1.20  | NS        |
| 10. Free available chlorine as Cl <sub>2</sub>    | : | <0.20 | 0.50      |
| 11. Copper as Cu                                  | : | 0.08  | 1.0       |
| 12. Iron as Fe                                    | : | 0.35  | 1.0       |
| 13. Phosphate as P                                | : | 0.74  | 5.0       |
| 14. Zinc as Zn                                    | : | <0.10 | 1.0       |
| 15. Chromium as Cr                                | : | <0.01 | 0.20      |

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

2. NS – Not Specified.

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## TEST REPORT

REF.NO: LAWN/SCL-P/2025

Report Date: 26-6-2025

### 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 : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A. 24<sup>th</sup> Edition, 2017 & IS: 3025

#### Limits as per GSR 422E

|   |   |        |           |
|---|---|--------|-----------|
| 1. pH   | : | 7.88   | 6.50-8.50 |
| 2. Total dissolved solids                         | : | 929    | 2100      |
| 3. Total Suspended solids<br>(at 103-105 °C)      | : | 27     | 100       |
| 4. Chemical oxygen demand                         | : | 37.10  | 250       |
| 5. Biochemical oxygen demand<br>(3 days at 27 °C) | : | <5.0   | 30        |
| 6. Chlorides as Cl                                | : | 276.30 | 600       |
| 7. Sulphates as SO <sub>4</sub>                   | : | 63.90  | 1000      |
| 8. Oil & Grease                                   | : | <1.0   | 10        |
| 9. Dissolved Oxygen                               | : | 0.90   | NS        |
| 10. Free available chlorine as Cl <sub>2</sub>    | : | <0.20  | 0.50      |
| 11. Copper as Cu                                  | : | 0.08   | 1.0       |
| 12. Iron as Fe                                    | : | 0.24   | 1.0       |
| 13. Phosphate as P                                | : | 0.56   | 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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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

| Location  |   | Near Mines Office | LIMIT | PROTOCOL/METHOD                                  |
|---|---|-------------------|-------|--|
| 1. Date of sampling   | : | 19-6-2025         | --    | ---  |
| 2. Date of Analysis   | : | 22-6-2025         | --    | ---  |
| 3. Total time of monitoring   | : | 24 hr             | --    | ---  |
| 4. Average flow rate (cum/min)  | : | 1.15              | --    | ---  |
| 5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>10</sub>  | : | 66                | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | : | 27                | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | : | 07                | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | : | 16                | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> ) :   |   | 0.009             | 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 / APM 550; (SL.NO. 912-DTH-2011), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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## TEST REPORT

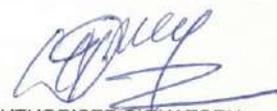
REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

| Location  | : | Near Crusher Area | LIMIT | PROTOCOL/METHOD                                  |
|---|---|-------------------|-------|--|
| 1. Date of sampling   | : | 19-6-2025         | --    | ---  |
| 2. Date of Analysis   | : | 22-6-2025         | --    | ---  |
| 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 <sub>10</sub>  | : | 68                | 100   | IS:5182 (Part-23); 2017 Gravimetric Method       |
| 6. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) -PM <sub>2.5</sub> | : | 29                | 60    | IS:5182 (Part-24); 2019 Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )    | : | 12                | 80    | IS:5182 (Part-2); 2018 New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )   | : | 24                | 80    | IS:5182 (Part-6); 2017 JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> ) :   |   | 0.018             | 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 / APM 550; (SL.NO. 931-DTH-2011), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Nala Exit ML-1 Boundary  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|   |   | As per IS:10500 - 2012         |  |
|---|---|--------------------------------|--|
|   |   | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |
| 1. Colour (Hazen)                         | : | <1.0                           | 5 max<br>15 max                                      |
| 2. Conductivity (micromhos/cm)            | : | 642                            | NS<br>NS   |
| 3. Total Dissolved Solids                 | : | 385                            | 500<br>2000  |
| 4. Turbidity (NTU)                        | : | 1.40                           | 01 max<br>05 max                                     |
| 5. pH                                     | : | 7.46                           | 6.50 - 8.50<br>No relaxation                         |
| 6. Total Suspended Solids                 | : | 22                             | NS<br>NS   |
| 7. Sulphates as SO <sub>4</sub>           | : | 32                             | 200 max<br>400 max                                   |
| 8. Phosphorus as P                        | : | <0.10                          | NS<br>NS   |
| 9. Sodium as Na                           | : | 83.79                          | NS<br>NS   |
| 10. Potassium as K                        | : | 2.23                           | NS<br>NS   |
| 11. Calcium as Ca                         | : | 43                             | 75 max<br>200 max                                    |
| 12. Magnesium as Mg                       | : | 7.01                           | 30 max<br>100 max                                    |
| 13. Total Hardness as CaCO <sub>3</sub>   | : | 136                            | 200 max<br>600 max                                   |
| 14. Chloride as Cl                        | : | 105                            | 250 max<br>1000 max                                  |
| 15. Fluoride as F                         | : | 0.40                           | 1.0 max<br>1.5 max                                   |
| 16. Nitrate Nitrogen as NO <sub>3</sub>   | : | 12                             | 45 max<br>No relaxation                              |
| 17. Total Alkalinity as CaCO <sub>3</sub> | : | 129                            | 200 max<br>600 max                                   |
| 18. Acidity as CaCO <sub>3</sub>          | : | 09                             | NS<br>NS   |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | <0.01  | 0.05                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.27   | 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<br>Detected            | Should Be Not<br>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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Nala Entering ML-1 Boundary  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      | As per IS:10500 - 2012         |  |               |
|--------------------------------|----------------------|--------------------------------|--|---------------|
|                                |                      | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)              | :                    | <1.0                           | 5 max  | 15 max        |
| 2. Conductivity (micromhos/cm) | :                    | 804                            | NS   | NS            |
| 3. Total Dissolved Solids      | :                    | 476                            | 500  | 2000          |
| 4. Turbidity (NTU)             | :                    | <1.0                           | 01 max   | 05 max        |
| 5. pH                          | :                    | 7.69                           | 6.50 - 8.50  | No relaxation |
| 6. Total Suspended Solids      | :                    | 14                             | NS   | NS            |
| 7. Sulphates                   | as SO <sub>4</sub>   | 42                             | 200 max  | 400 max       |
| 8. Phosphorus                  | as P                 | <0.10                          | NS   | NS            |
| 9. Sodium                      | as Na                | 101.55                         | NS   | NS            |
| 10. Potassium                  | as K                 | 3.16                           | NS   | NS            |
| 11. Calcium                    | as Ca                | 55                             | 75 max   | 200 max       |
| 12. Magnesium                  | as Mg                | 9.09                           | 30 max   | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 186                            | 200 max  | 600 max       |
| 14. Chloride                   | as Cl                | 136                            | 250 max  | 1000 max      |
| 15. Fluoride                   | as F                 | 0.40                           | 1.0 max  | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 14.28                          | 45 max   | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 209                            | 200 max  | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> | 06                             | NS   | NS            |

Contd.....

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.22   | 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<br>Detected            | Should Be Not<br>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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Borewell – 1 (Temple Garden)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|   |          | As per IS:10500 - 2012         |  |
|---|----------|--------------------------------|--|
|   |          | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |
| 1. Colour (Hazen)                         | : <1.0   | 5 max                          | 15 max   |
| 2. Conductivity (micromhos/cm)            | : 767    | NS                             | NS   |
| 3. Total Dissolved Solids                 | : 457    | 500                            | 2000   |
| 4. Turbidity (NTU)                        | : 1.10   | 01 max                         | 05 max   |
| 5. pH                                     | : 7.80   | 6.50 - 8.50                    | No relaxation  |
| 6. Total Suspended Solids                 | : 15     | NS                             | NS   |
| 7. Sulphates as SO <sub>4</sub>           | : 27     | 200 max                        | 400 max  |
| 8. Phosphorus as P                        | : <0.10  | NS                             | NS   |
| 9. Sodium as Na                           | : 49.77  | NS                             | NS   |
| 10. Potassium as K                        | : 4.64   | NS                             | NS   |
| 11. Calcium as Ca                         | : 75.30  | 75 max                         | 200 max  |
| 12. Magnesium as Mg                       | : 19.18  | 30 max                         | 100 max  |
| 13. Total Hardness as CaCO <sub>3</sub>   | : 267.18 | 200 max                        | 600 max  |
| 14. Chloride as Cl                        | : 68     | 250 max                        | 1000 max   |
| 15. Fluoride as F                         | : 0.34   | 1.0 max                        | 1.5 max  |
| 16. Nitrate Nitrogen as NO <sub>3</sub>   | : 10.82  | 45 max                         | No relaxation  |
| 17. Total Alkalinity as CaCO <sub>3</sub> | : 248    | 200 max                        | 600 max  |
| 18. Acidity as CaCO <sub>3</sub>          | : 07     | NS                             | NS   |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Total Iron             | as Fe | : | 0.19   | 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 | : | 0.18   | 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<br>Detected            | Should Be Not<br>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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Borewell - 2 (Near Mines Cross Road)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                        | As per IS:10500 - 2012               |  |               |
|--------------------------------|------------------------|--------------------------------------|--|---------------|
|                                |                        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |               |
| 1. Colour (Hazen)              | :                      | <1.0                                 | 5 max  | 15 max        |
| 2. Conductivity (micromhos/cm) | :                      | 842                                  | NS   | NS            |
| 3. Total Dissolved Solids      | :                      | 501                                  | 500  | 2000          |
| 4. Turbidity (NTU)             | :                      | 0.80                                 | 01 max   | 05 max        |
| 5. pH                          | :                      | 7.41                                 | 6.50 - 8.50  | No relaxation |
| 6. Total Suspended Solids      | :                      | 16                                   | NS   | NS            |
| 7. Sulphates                   | as SO <sub>4</sub> :   | 20.80                                | 200 max  | 400 max       |
| 8. Phosphorus                  | as P :                 | <0.10                                | NS   | NS            |
| 9. Sodium                      | as Na :                | 56                                   | NS   | NS            |
| 10. Potassium                  | as K :                 | 5.12                                 | NS   | NS            |
| 11. Calcium                    | as Ca :                | 82.91                                | 75 max   | 200 max       |
| 12. Magnesium                  | as Mg :                | 21.14                                | 30 max   | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> : | 294                                  | 200 max  | 600 max       |
| 14. Chloride                   | as Cl :                | 75.01                                | 250 max  | 1000 max      |
| 15. Fluoride                   | as F :                 | 0.34                                 | 1.0 max  | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub> :   | 9.39                                 | 45 max   | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> : | 287                                  | 200 max  | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> : | 12                                   | NS   | NS            |

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Total Iron             | as Fe | : | 0.23   | 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 | : | 0.25   | 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<br>Detected            | Should Be Not<br>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

## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Borewell – 3 (Raw Material Stock Yard)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      | As per IS:10500 - 2012         |  |               |               |
|--------------------------------|----------------------|--------------------------------|--|---------------|---------------|
|                                |                      | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |               |
| 1. Colour (Hazen)              | :                    | <1.0                           | 5 max  | 15 max        |               |
| 2. Conductivity (micromhos/cm) | :                    | 687                            | NS   | NS            |               |
| 3. Total Dissolved Solids      | :                    | 409                            | 500  | 2000          |               |
| 4. Turbidity (NTU)             | :                    | 1.10                           | 01 max   | 05 max        |               |
| 5. pH                          | :                    | 7.69                           | 6.50 - 8.50  | No relaxation |               |
| 6. Total Suspended Solids      | :                    | 10                             | NS   | NS            |               |
| 7. Sulphates                   | as SO <sub>4</sub>   | :                              | 40   | 200 max       | 400 max       |
| 8. Phosphorus                  | as P                 | :                              | 0.22   | NS            | NS            |
| 9. Sodium                      | as Na                | :                              | 88.61  | NS            | NS            |
| 10. Potassium                  | as K                 | :                              | 4.14   | NS            | NS            |
| 11. Calcium                    | as Ca                | :                              | 45.46  | 75 max        | 200 max       |
| 12. Magnesium                  | as Mg                | :                              | 7.97   | 30 max        | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> | :                              | 146.52   | 200 max       | 600 max       |
| 14. Chloride                   | as Cl                | :                              | 137.26   | 250 max       | 1000 max      |
| 15. Fluoride                   | as F                 | :                              | 0.37   | 1.0 max       | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | :                              | 18.50  | 45 max        | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | :                              | 94.06  | 200 max       | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> | :                              | 14   | NS            | NS            |

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|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | <0.01  | 0.05                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.17   | 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<br>Detected            | Should Be Not<br>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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Borewell Water (Mines Office)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      | As per IS:10500 - 2012         |  |               |
|--------------------------------|----------------------|--------------------------------|--|---------------|
|                                |                      | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)              | :                    | <1.0                           | 5 max  | 15 max        |
| 2. Conductivity (micromhos/cm) | :                    | 605                            | NS   | NS            |
| 3. Total Dissolved Solids      | :                    | 359                            | 500  | 2000          |
| 4. Turbidity (NTU)             | :                    | <1.0                           | 01 max   | 05 max        |
| 5. pH                          | :                    | 7.32                           | 6.50 - 8.50  | No relaxation |
| 6. Total Suspended Solids      | :                    | 08                             | NS   | NS            |
| 7. Sulphates                   | as SO <sub>4</sub>   | : 35.43                        | 200 max  | 400 max       |
| 8. Phosphorus                  | as P                 | : <0.10                        | NS   | NS            |
| 9. Sodium                      | as Na                | : 76.51                        | NS   | NS            |
| 10. Potassium                  | as K                 | : 5.35                         | NS   | NS            |
| 11. Calcium                    | as Ca                | : 39.87                        | 75 max   | 200 max       |
| 12. Magnesium                  | as Mg                | : 7.01                         | 30 max   | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> | : 128.50                       | 200 max  | 600 max       |
| 14. Chloride                   | as Cl                | : 120                          | 250 max  | 1000 max      |
| 15. Fluoride                   | as F                 | : 0.46                         | 1.0 max  | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | : 16.24                        | 45 max   | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | : 82.08                        | 200 max  | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> | : 11                           | NS   | NS            |

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## TEST REPORT

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|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | <0.01  | 0.05                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.13   | 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<br>Detected            | Should Be Not<br>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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particular : Drinking Water (ML-1)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                      |                                       | As per IS:10500 - 2012         |  |               |
|----------------------|---------------------------------------|--------------------------------|--|---------------|
|                      |                                       | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)    | :                                     | <1.0                           | 5 max  | 15 max        |
| 2. Turbidity (NTU)   | :                                     | <1.0                           | 01 max   | 05 max        |
| 3. pH                | :                                     | 7.80                           | 6.50 - 8.50  | No relaxation |
| 4. Total hardness    | as CaCO <sub>3</sub> :                | 10.23                          | 200 max  | 600 max       |
| 5. Calcium           | as Ca :                               | 3.20                           | 75 max   | 200 max       |
| 6. Magnesium         | as Mg :                               | 0.54                           | 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 :                               | 7.29                           | 250 max  | 1000 max      |
| 11. Sulphate         | as SO <sub>4</sub> :                  | 2.29                           | 200 max  | 400 max       |
| 12. Nitrates         | as NO <sub>3</sub> :                  | 0.78                           | 45 max   | No relaxation |
| 13. Fluorides        | as F :                                | 0.10                           | 1.0 max  | 1.5 max       |
| 14. Phenol Compounds | as C <sub>6</sub> H <sub>5</sub> OH : | <0.001                         | 0.001 max  | 0.002 max     |
| 15. Mercury          | as Hg :                               | <0.001                         | 0.001 max  | No relaxation |
| 16. Cadmium          | as Cd :                               | <0.003                         | 0.003 max  | No relaxation |
| 17. Selenium         | as Se :                               | <0.01                          | 0.01 max   | No relaxation |
| 18. Arsenic          | as As :                               | <0.01                          | 0.01 max   | 0.05 max      |

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## TEST REPORT

:2:

|  |                      |   |           | As per IS:10500 - 2012               |  |
|--|----------------------|---|-----------|--------------------------------------|--|
|  |                      |   |           | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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                | : | <0.05     | 5.0 max                              | 15   |
| 22. Anionic Detergents                       | as MBAS              | : | ND        | 0.2 max                              | 1.0  |
| 23. Chromium                                 | as Cr                | : | <0.01     | 0.05 max                             | No relaxation  |
| 24. Polynuclear aromatic Hydrocarbons as PAH |                      | : | ND        | NS                                   | 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                               | 0.001  |
| 28. Radio active                             |                      | : | <0.001    | 0.1 max                              | No relaxation  |
| 29. Odour                                    |                      | : | Agreeable | Agreeable                            | Agreeable  |
| 30. Taste                                    |                      | : | Agreeable | Agreeable                            | Agreeable  |
| 31. Dissolved Solids                         |                      | : | 53        | 500 max                              | 2000 max   |
| 32. Total alkalinity                         | as CaCO <sub>3</sub> | : | 34        | 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/100ml                             |                      | : | Absent    | Should Be Not<br>Detected            | Should Be Not<br>Detected                                  |

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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Pedaveedu Village  
Address : Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particulars : Mine Pit Water  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

1. pH : 7.42  
2. Temperature (°C) : 36  
3. Total Suspended solids : 19  
4. Oil & Grease : <1.0

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### NOISE QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

| Location                 | Levels in dB (A) |       |       |
|--------------------------|------------------|-------|-------|
|                          | Max              | Min   | Avg.  |
| 1. Near Shovel Working   | 76.40            | 71.20 | 73.80 |
| 2. Near Drill Working    | 81.20            | 77.40 | 79.30 |
| 3. Tipper Inside Cabin   | 74.80            | 69.60 | 72.20 |
| 4. Near Crusher Hopper   | 80.10            | 75.30 | 77.70 |
| 5. Near Haulage Road     | 76.50            | 71.30 | 73.90 |
| 6. Near Dumping          | 78.20            | 73.40 | 75.80 |
| 7. Near Drilling Area    | 83.10            | 78.50 | 80.80 |
| 8. Near Loading Area     | 84.50            | 79.70 | 82.10 |
| 9. Near S-E ML Boundary  | 69.70            | 64.50 | 67.10 |
| 10. Near N-E ML Boundary | 66.40            | 61.40 | 63.90 |
| 11. Near S-W ML Boundary | 70.30            | 65.10 | 67.70 |

- Note:** \*I 1. Noise levels monitoring conducted on 17-6-2025.  
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-M/2025

Report Date: 26-6-2025

### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particulars : ML-1 South side Boundary  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |             |
|---|---|-------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 7.49        |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 540         |
| 3. Water Holding Capacity (%)                                     | : | 38          |
| 4. Bulk Density (gm/cc)   | : | 1.25        |
| 5. Available Nitrogen as N (kg/ha)                                | : | 48          |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 36          |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 107         |
| 8. Phosphorus as P (Kg/Ha)  | : | 11.11       |
| 9. Organic Carbon (%)   | : | 0.18        |
| 10. Organic Matter (%)  | : | 0.31        |
| 11. Calcium as Ca (mg/kg)   | : | 1,321       |
| 12. Sodium as Na (mg/kg)  | : | 244         |
| 13. Potassium as K (mg/kg)  | : | 44.26       |
| 14. Copper as Cu (mg/kg)  | : | 4.60        |
| 15. Zinc as Zn (mg/kg)  | : | 11.52       |
| 16. Iron as Fe (mg/kg)  | : | 6.96        |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0        |
| 18. <b>Texture</b>  | : | <b>Loam</b> |
| a) Sand (%)   | : | 40.10       |
| b) Silt (%)   | : | 38.30       |
| c) Clay (%)   | : | 21.60       |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particulars : ML-1 East side Boundary  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |             |
|---|---|-------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 7.84        |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 796         |
| 3. Water Holding Capacity (%)                                     | : | 34          |
| 4. Bulk Density (gm/cc)   | : | 1.21        |
| 5. Available Nitrogen as N (kg/ha)                                | : | 81          |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 48.59       |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 136.24      |
| 8. Phosphorus as P (Kg/Ha)  | : | 14.95       |
| 9. Organic Carbon (%)   | : | 0.14        |
| 10. Organic Matter (%)  | : | 0.25        |
| 11. Calcium as Ca (mg/kg)   | : | 1,947       |
| 12. Sodium as Na (mg/kg)  | : | 317         |
| 13. Potassium as K (mg/kg)  | : | 113         |
| 14. Copper as Cu (mg/kg)  | : | 6.63        |
| 15. Zinc as Zn (mg/kg)  | : | 18.72       |
| 16. Iron as Fe (mg/kg)  | : | 10.01       |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0        |
| 18. Texture   | : | <b>Loam</b> |
| a) Sand (%)   | : | 39.20       |
| b) Silt (%)   | : | 41.50       |
| c) Clay (%)   | : | 19.30       |

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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# 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-M/2025

Report Date: 26-6-2025

### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

Sample Particulars : Gundlapally Village  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |                   |
|---|---|-------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 8.02              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 898               |
| 3. Water Holding Capacity (%)                                     | : | 79                |
| 4. Bulk Density (gm/cc)   | : | 1.35              |
| 5. Available Nitrogen as N (kg/ha)                                | : | 86                |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 33.02             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 118.77            |
| 8. Phosphorus as P (Kg/Ha)  | : | 9.93              |
| 9. Organic Carbon (%)   | : | 0.19              |
| 10. Organic Matter (%)  | : | 0.33              |
| 11. Calcium as Ca (mg/kg)   | : | 1,040             |
| 12. Sodium as Na (mg/kg)  | : | 232               |
| 13. Potassium as K (mg/kg)  | : | 59                |
| 14. Copper as Cu (mg/kg)  | : | 4.87              |
| 15. Zinc as Zn (mg/kg)  | : | 11.81             |
| 16. Iron as Fe (mg/kg)  | : | 6.62              |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0              |
| 18. Texture   | : | <b>Silty Loam</b> |
| a) Sand (%)   | : | 19.10             |
| b) Silt (%)   | : | 54.40             |
| c) Clay (%)   | : | 26.50             |

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### FUGITIVE EMISSION DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED, (MINE-1)**  
Mattampally (Post & Mandal),  
Suryapet - (Dist).

PROTOCOL : IS-5182 (Part-4)

| S.No. | Location                            | Date of Sampling | Date of Analysis | SPM ( $\mu\text{g}/\text{m}^3$ ) | LIMITS                            |
|-------|-------------------------------------|------------------|------------------|----------------------------------|-----------------------------------|
| 1     | Near Unloading                      | 19-6-2025        | 22-6-2025        | 1,476                            | 2000 ( $\mu\text{g}/\text{m}^3$ ) |
| 2     | Near Haulage Road                   | 19-6-2025        | 22-6-2025        | 1,148                            |                                   |
| 3     | Near Secondary Crusher              | 19-6-2025        | 22-6-2025        | 1,355                            |                                   |
| 4     | Conveyor Transfer Point - 1         | 20-6-2025        | 22-6-2025        | 1,395                            |                                   |
| 5     | Conveyor Transfer Point - 2         | 20-6-2025        | 22-6-2025        | 1,427                            |                                   |
| 6     | Near Drilling Area                  | 20-6-2025        | 22-6-2025        | 1,562                            |                                   |
| 7     | Near Haulage Road-2 (Near HSD Bunk) | 20-6-2025        | 22-6-2025        | 1,239                            |                                   |

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



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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AIR BORNE DUST & FREE SILICA ANALYSIS

Name of the Industry & : SAGAR CEMENTS LIMESTONE MINE-1 OF M/s. SAGAR CEMENTS LTD.,  
Address Pedaveedu Village, Mattampally,  
Suryapet (Dist) - 508 204.

Date of Collection : 18-6-2025

Date of Analysis : 21-6-2025

| Sl.No. | Location               | Operation   | Designation     | Dust Concentration (mg/m <sup>3</sup> ) | Limits (mg/m <sup>3</sup> ) | Free Silica Content (%) | Limits (%) |
|--------|------------------------|---|-----------------|---|-----------------------------|-------------------------|------------|
| 1      | Drilling Operator -01  | Drilling of Limestone                                 | Driller         | 0.19                                    | 3.0                         | Not Detected            | 5.0        |
| 2      | Shovel Operator        | Unloading of Limestone to crusher                     | Shovel Operator | 0.32                                    |                             | Not Detected            |            |
| 3      | Dumper Operator        | Movement of Dumpers carrying ROM from mine to crusher | HEMM Operator   | 0.24                                    |                             | Not Detected            |            |
| 4      | Crusher Operator       | Crushing Lime stone                                   | Crusher Helper  | 0.28                                    |                             | Not Detected            |            |
| 5      | Drilling Operator - 02 | Driller   | Driller         | 0.30                                    |                             | Not Detected            |            |

#### Note:

1)

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

2)

Instrument Name : **Personal Sampler**  
Model No : APM 800;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 914-DTA-2013  
Calibration On : 31-5-2025  
Calibration due On: 30-5-2026

3)

Instrument Name : **Personal Sampler**  
Model No : APM 801;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 67-B-23 P  
Calibration On : 04-7-2024  
Calibration due On: 03-7-2025

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### PERSONAL DUST & FREE SILICA ANALYSIS

Name of the Industry & : **SAGAR CEMENTS LIMESTONE MINE-1 OF M/s. SAGAR CEMENTS LTD.,**  
Address Pedaveedu Village, Mattampally,  
Suryapet (Dist) - 508 204.

Date of Collection : 18-6-2025

Date of Analysis : 21-6-2025

| Sl.No. | Location          | Name of Employees                     | Date of Birth | Age | Designation      | Dust Concentration (mg/m <sup>3</sup> ) | Limits (mg/m <sup>3</sup> ) | Free Silica Content (%) | Limits (%) |
|--------|-------------------|---------------------------------------|---------------|-----|------------------|---|-----------------------------|-------------------------|------------|
| 1      | Drilling Operator | Mr. R. Ramesh<br>ID No. 800025        | 15.03.1977    | 48  | Driller          | 0.15                                    | 3.0                         | Not Detected            | 5.0        |
| 2      | Shovel Operator   | Mr. P. Prashanth<br>ID No: 800391     | 11.05.1993    | 32  | Shovel Operator  | 0.18                                    |                             | Not Detected            |            |
| 3      | Dumper Operator   | Mr. P. Giridhar Reddy<br>ID No: 80061 | 09.07.1981    | 44  | Tanker Driver    | 0.12                                    |                             | Not Detected            |            |
| 4      | Crusher Operator  | Mr. P.Sanjeeva Reddy<br>ID No: 800095 | 13.06.1985    | 40  | Crusher Operator | 0.20                                    |                             | Not Detected            |            |

#### Note:

1)

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

2)

Instrument Name : **Personal Sampler**  
Model No : APM 800;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 914-DTA-2013  
Calibration On : 31-5-2025  
Calibration due On: 30-5-2026

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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

| Location  |   | Near Mines<br>Office - ML-2 | LIMIT | PROTOCOL/METHOD                                     |
|---|---|-----------------------------|-------|---|
| 1. Date of sampling   | : | 21-6-2025                   | --    | ---   |
| 2. Date of Analysis   | : | 22-6-2025                   | --    | ---   |
| 3. Total time of monitoring   | : | 24 hr                       | --    | ---   |
| 4. Average flow rate<br>(cum/min)   | : | 1.10                        | --    | ---   |
| 5. Particulate matter<br>Concentration ( $\mu\text{g}/\text{m}^3$ )<br>-PM <sub>10</sub>  | : | 69                          | 100   | IS:5182 (Part-23); 2017<br>Gravimetric Method       |
| 6. Particulate matter<br>Concentration ( $\mu\text{g}/\text{m}^3$ )<br>-PM <sub>2.5</sub> | : | 29                          | 60    | IS:5182 (Part-24); 2019<br>Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> )<br>Concentration ( $\mu\text{g}/\text{m}^3$ )       | : | 10                          | 80    | IS:5182 (Part-2); 2018<br>New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> )<br>Concentration ( $\mu\text{g}/\text{m}^3$ )      | : | 21                          | 80    | IS:5182 (Part-6); 2017<br>JACOB & Hochheiser Method |
| 9. CO, Concentration ( $\text{mg}/\text{m}^3$ ) :   |   | 0.012                       | 2     | IS:5182 (Part-10); 2019<br>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

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

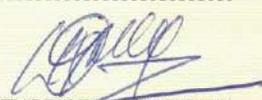
REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

| Location  |                                      | Limit | PROTOCOL/METHOD                                     |
|---|--------------------------------------|-------|---|
| 1. Date of sampling   | : Near ML Area<br>West Side Boundary | --    | ---   |
| 2. Date of Analysis   | : 21-6-2025                          | --    | ---   |
| 3. Total time of monitoring   | : 22-6-2025                          | --    | ---   |
| 4. Average flow rate<br>(cum/min)   | : 24 hr                              | --    | ---   |
| 4. Average flow rate<br>(cum/min)   | : 1.04                               | --    | ---   |
| 5. Particulate matter<br>Concentration ( $\mu\text{g}/\text{m}^3$ )<br>-PM <sub>10</sub>  | : 63                                 | 100   | IS:5182 (Part-23); 2017<br>Gravimetric Method       |
| 6. Particulate matter<br>Concentration ( $\mu\text{g}/\text{m}^3$ )<br>-PM <sub>2.5</sub> | : 23                                 | 60    | IS:5182 (Part-24); 2019<br>Gravimetric Method       |
| 7. Sulphur dioxide (SO <sub>2</sub> )<br>Concentration ( $\mu\text{g}/\text{m}^3$ )       | : 07                                 | 80    | IS:5182 (Part-2); 2018<br>New West & Gaeke Method   |
| 8. Nitrogen dioxide (NO <sub>2</sub> )<br>Concentration ( $\mu\text{g}/\text{m}^3$ )      | : 17                                 | 80    | IS:5182 (Part-6); 2017<br>JACOB & Hochheiser Method |
| 9. CO, Concentration (mg/m <sup>3</sup> )   | : 0.016                              | 2     | IS:5182 (Part-10); 2019<br>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

1. FINE PARTICULATE SAMPLER MODEL / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026

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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particular : Nala Entering point into ML Area (W2)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                        | As per IS:10500 - 2012         |  |               |
|--------------------------------|------------------------|--------------------------------|--|---------------|
|                                |                        | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)              | :                      | <5.0                           | 5 max  | 15 max        |
| 2. Conductivity (micromhos/cm) | :                      | 587                            | NS   | NS            |
| 3. Total Dissolved Solids      | :                      | 353                            | 500  | 2000          |
| 4. Turbidity (NTU)             | :                      | <1.0                           | 01 max   | 05 max        |
| 5. pH                          | :                      | 7.49                           | 6.50 - 8.50  | No relaxation |
| 6. Total Suspended Solids      | :                      | 19                             | NS   | NS            |
| 7. Sulphates                   | as SO <sub>4</sub> :   | 30                             | 200 max  | 400 max       |
| 8. Phosphorus                  | as P :                 | 0.19                           | NS   | NS            |
| 9. Sodium                      | as Na :                | 60                             | NS   | NS            |
| 10. Potassium                  | as K :                 | 1.51                           | NS   | NS            |
| 11. Calcium                    | as Ca :                | 38                             | 75 max   | 200 max       |
| 12. Magnesium                  | as Mg :                | 5.72                           | 30 max   | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> : | 123                            | 200 max  | 600 max       |
| 14. Chloride                   | as Cl :                | 96                             | 250 max  | 1000 max      |
| 15. Fluoride                   | as F :                 | 0.42                           | 1.0 max  | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub> :   | 11                             | 45 max   | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> : | 88                             | 200 max  | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> : | 03                             | NS   | NS            |

Contd.....

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## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Total Iron             | as Fe | : | 0.19   | 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 | : | 0.08   | 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   |       | : | 360    | NS                                   | NS   |
| 29. Escherichia Coli Count |       | : | 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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particular : Nala Entering point into ML Area (W3)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

As per IS:10500 - 2012

|                                |                      |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
|--------------------------------|----------------------|--------|--------------------------------------|--|
| 1. Colour (Hazen)              | :                    | <5.0   | 5 max                                | 15 max   |
| 2. Conductivity (micromhos/cm) | :                    | 864    | NS                                   | NS   |
| 3. Total Dissolved Solids      | :                    | 515    | 500                                  | 2000   |
| 4. Turbidity (NTU)             | :                    | 1.30   | 01 max                               | 05 max   |
| 5. pH                          | :                    | 7.69   | 6.50 - 8.50                          | No relaxation  |
| 6. Total Suspended Solids      | :                    | 29     | NS                                   | NS   |
| 7. Sulphates                   | as SO <sub>4</sub>   | : 44   | 200 max                              | 400 max  |
| 8. Phosphorus                  | as P                 | : 0.29 | NS                                   | NS   |
| 9. Sodium                      | as Na                | : 89   | NS                                   | NS   |
| 10. Potassium                  | as K                 | : 2.23 | NS                                   | NS   |
| 11. Calcium                    | as Ca                | : 56   | 75 max                               | 200 max  |
| 12. Magnesium                  | as Mg                | : 8.43 | 30 max                               | 100 max  |
| 13. Total Hardness             | as CaCO <sub>3</sub> | : 181  | 200 max                              | 600 max  |
| 14. Chloride                   | as Cl                | : 140  | 250 max                              | 1000 max   |
| 15. Fluoride                   | as F                 | : 0.52 | 1.0 max                              | 1.5 max  |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | : 16   | 45 max                               | No relaxation  |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | : 131  | 200 max                              | 600 max  |
| 18. Acidity                    | as CaCO <sub>3</sub> | : 02   | NS                                   | NS   |

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# LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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ISO 9001, 14001 & 45001  
Certified Company

## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.29   | 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   |       | : | 326    | NS                                   | NS   |
| 29. Escherichia Coli Count |       | : | 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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particular : Nala Exit point from ACL ML Area (W4)  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                                |                      | As per IS:10500 - 2012         |  |               |
|--------------------------------|----------------------|--------------------------------|--|---------------|
|                                |                      | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)              | :                    | <5.0                           | 5 max  | 15 max        |
| 2. Conductivity (micromhos/cm) | :                    | 897                            | NS   | NS            |
| 3. Total Dissolved Solids      | :                    | 529                            | 500  | 2000          |
| 4. Turbidity (NTU)             | :                    | <1.0                           | 01 max   | 05 max        |
| 5. pH                          | :                    | 7.67                           | 6.50 - 8.50  | No relaxation |
| 6. Total Suspended Solids      | :                    | 16                             | NS   | NS            |
| 7. Sulphates                   | as SO <sub>4</sub>   | 21.96                          | 200 max  | 400 max       |
| 8. Phosphorus                  | as P                 | 0.12                           | NS   | NS            |
| 9. Sodium                      | as Na                | 46                             | NS   | NS            |
| 10. Potassium                  | as K                 | 2.89                           | NS   | NS            |
| 11. Calcium                    | as Ca                | 86                             | 75 max   | 200 max       |
| 12. Magnesium                  | as Mg                | 22.69                          | 30 max   | 100 max       |
| 13. Total Hardness             | as CaCO <sub>3</sub> | 311                            | 200 max  | 600 max       |
| 14. Chloride                   | as Cl                | 79.23                          | 250 max  | 1000 max      |
| 15. Fluoride                   | as F                 | 0.48                           | 1.0 max  | 1.5 max       |
| 16. Nitrate Nitrogen           | as NO <sub>3</sub>   | 1.22                           | 45 max   | No relaxation |
| 17. Total Alkalinity           | as CaCO <sub>3</sub> | 279                            | 200 max  | 600 max       |
| 18. Acidity                    | as CaCO <sub>3</sub> | 11                             | NS   | NS            |

Contd.....

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Certified Company

## TEST REPORT

:2:

|                            |       |   |        | As per IS:10500 - 2012               |  |
|----------------------------|-------|---|--------|--------------------------------------|--|
|                            |       |   |        | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>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 | : | 0.11   | 0.05                                 | 1.5  |
| 23. Zinc                   | as Zn | : | 0.35   | 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   |       | : | 308    | NS                                   | NS   |
| 29. Escherichia Coli Count |       | : | 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-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particular : Drinking Water - ML-2  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

|                      |                                       | As per IS:10500 - 2012         |  |               |
|----------------------|---------------------------------------|--------------------------------|--|---------------|
|                      |                                       | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate source |               |
| 1. Colour (Hazen)    | :                                     | <5.0                           | 5 max  | 15 max        |
| 2. Turbidity (NTU)   | :                                     | <1.0                           | 01 max   | 05 max        |
| 3. pH                | :                                     | 7.43                           | 6.50 - 8.50  | No relaxation |
| 4. Total hardness    | as CaCO <sub>3</sub> :                | 23                             | 200 max  | 600 max       |
| 5. Calcium           | as Ca :                               | 6.97                           | 75 max   | 200 max       |
| 6. Magnesium         | as Mg :                               | 1.18                           | 30 max   | 100 max       |
| 7. Copper            | as Cu :                               | <0.01                          | 0.05   | 1.5           |
| 8. Iron              | as Fe :                               | <0.10                          | 0.3 max  | No relaxation |
| 9. Manganese         | as Mn :                               | <0.01                          | 0.1 max  | 0.3 max       |
| 10. Chloride         | as Cl :                               | 15.85                          | 250 max  | 1000 max      |
| 11. Sulphate         | as SO <sub>4</sub> :                  | 4.99                           | 200 max  | 400 max       |
| 12. Nitrates         | as NO <sub>3</sub> :                  | 1.69                           | 45 max   | No relaxation |
| 13. Fluorides        | as F :                                | 0.14                           | 1.0 max  | 1.5 max       |
| 14. Phenol Compounds | as C <sub>6</sub> H <sub>5</sub> OH : | <0.001                         | 0.001  | 0.002         |
| 15. Mercury          | as Hg :                               | <0.001                         | 0.001  | No relaxation |
| 16. Cadmium          | as Cd :                               | <0.003                         | 0.003  | No relaxation |
| 17. Selenium         | as Se :                               | <0.01                          | 0.01   | No relaxation |
| 18. Arsenic          | as As :                               | <0.001                         | 0.01   | 0.05          |

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## TEST REPORT

:2:

|  |                      |   |           | As per IS:10500 - 2012               |  |
|--|----------------------|---|-----------|--------------------------------------|--|
|  |                      |   |           | Requirement<br>(Acceptable<br>Limit) | Permissible<br>Limit in the absence<br>of alternate source |
| 19. Cyanide                                  | as CN                | : | <0.01     | 0.05                                 | No relaxation  |
| 20. Lead                                     | as Pb                | : | <0.01     | 0.01                                 | No relaxation  |
| 21. Zinc                                     | as Zn                | : | <0.01     | 5.0                                  | 15   |
| 22. Anionic Detergents                       | as MBAS              | : | Absent    | 0.2                                  | 1.0  |
| 23. Chromium                                 | as Cr                | : | <0.01     | 0.05                                 | No relaxation  |
| 24. Polynuclear aromatic Hydrocarbons as PAH | :                    | : | Absent    | NS                                   | NS   |
| 25. Mineral Oil                              | :                    | : | <0.10     | 0.5                                  | No relaxation  |
| 26. Residual Chlorine                        | :                    | : | <0.20     | 0.2                                  | 01   |
| 27. Pesticides                               | :                    | : | Absent    | Absent                               | 0.001  |
| 28. Radio active                             | :                    | : | <0.001    | 0.1                                  | No relaxation  |
| 29. Odour                                    | :                    | : | Agreeable | Agreeable                            | Agreeable  |
| 30. Taste                                    | :                    | : | Agreeable | Agreeable                            | Agreeable  |
| 31. Dissolved Solids                         | :                    | : | 116       | 500                                  | 2000   |
| 32. Total alkalinity                         | as CaCO <sub>3</sub> | : | 74        | 200 max                              | 600 max  |
| 33. Aluminium                                | as Al                | : | 0.015     | 0.3                                  | 0.2  |
| 34. Boron                                    | as B                 | : | 0.022     | 0.5                                  | 1.0  |
| 35. E-Coli                                   | :                    | : | Absent    | Absent                               | NS   |

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

2) NS – Not Specified

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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### WATER ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particulars : ML – 2 Pit Water  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025  
PROTOCOL : A.P.H.A 24<sup>th</sup> Edition

1. pH : 7.64  
2. Temperature (°C) : 32  
3. Total Suspended solids : 12  
4. Oil & Grease : <1.0

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

  
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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### NOISE QUALITY DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

| Location                         | Levels in dB (A) |       |       |
|----------------------------------|------------------|-------|-------|
|                                  | Max              | Min   | Avg.  |
| 1. Near Pedaveedu Village        | 51.40            | 46.20 | 48.80 |
| 2. Near Ramachandrapuram Village | 49.50            | 44.70 | 47.00 |
| 3. Western Boundary of ML Area   | 56.70            | 51.50 | 54.10 |
| 4. Near Shovel Working           | 70.30            | 65.30 | 67.80 |
| 5. Near Drill Working            | 80.20            | 75.60 | 77.90 |
| 6. Tipper Inside Cabin           | 76.40            | 71.40 | 73.90 |
| 7. Near Haulage Road             | 67.50            | 62.70 | 65.10 |
| 8. Near Loading Area             | 78.80            | 73.60 | 76.20 |
| 9. Near Mines Office             | 65.40            | 60.20 | 62.80 |

- Note:** \*I 1. Noise levels monitoring conducted on 19-6-2025.  
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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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particulars : Pedaveedu Village  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.81              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 572               |
| 3. Water Holding Capacity (%)                                     | : 72                |
| 4. Bulk Density (gm/cc)   | : 1.25              |
| 5. Available Nitrogen as N (kg/ha)                                | : 79.14             |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 41.38             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 135.03            |
| 8. Phosphorus as P (Kg/Ha)  | : 11.90             |
| 9. Organic Carbon (%)   | : 0.17              |
| 10. Organic Matter (%)  | : 0.29              |
| 11. Calcium as Ca (mg/kg)   | : 952.78            |
| 12. Sodium as Na (mg/kg)  | : 305               |
| 13. Potassium as K (mg/kg)  | : 80                |
| 14. Copper as Cu (mg/kg)  | : 4.83              |
| 15. Zinc as Zn (mg/kg)  | : 8.50              |
| 16. Iron as Fe (mg/kg)  | : 7.53              |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. Texture   | : <b>Silty Loam</b> |
| a) Sand (%)   | : 39.10             |
| b) Silt (%)   | : 42.50             |
| c) Clay (%)   | : 18.40             |

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

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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

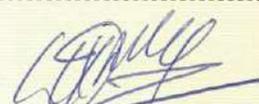
### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particulars : Ramachandrapuram Village  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |   |                        |
|---|---|------------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : | 7.67                   |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : | 635                    |
| 3. Water Holding Capacity (%)                                     | : | 70                     |
| 4. Bulk Density (gm/cc)   | : | 1.24                   |
| 5. Available Nitrogen as N (kg/ha)                                | : | 130                    |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : | 35.48                  |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : | 166                    |
| 8. Phosphorus as P (Kg/Ha)  | : | 10.90                  |
| 9. Organic Carbon (%)   | : | 0.21                   |
| 10. Organic Matter (%)  | : | 0.36                   |
| 11. Calcium as Ca (mg/kg)   | : | 1,629                  |
| 12. Sodium as Na (mg/kg)  | : | 143                    |
| 13. Potassium as K (mg/kg)  | : | 64                     |
| 14. Copper as Cu (mg/kg)  | : | 4.29                   |
| 15. Zinc as Zn (mg/kg)  | : | 9.28                   |
| 16. Iron as Fe (mg/kg)  | : | 6.38                   |
| 17. Manganese as Mn (mg/kg)                                       | : | <2.0                   |
| 18. <b>Texture</b>  | : | <b>Silty Clay Loam</b> |
| a) Sand (%)   | : | 19.10                  |
| b) Silt (%)   | : | 60.20                  |
| c) Clay (%)   | : | 20.40                  |

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

  
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Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### SOIL ANALYSIS

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Sample Particulars : ML Area  
Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

|   |                     |
|---|---------------------|
| 1. pH (1:5 Soil Water Extract)                                    | : 7.56              |
| 2. E.C (microsiemens/cm)<br>(1:5 soil water extract)              | : 602               |
| 3. Water Holding Capacity (%)                                     | : 27                |
| 4. Bulk Density (gm/cc)   | : 1.30              |
| 5. Available Nitrogen as N (kg/ha)                                | : 37                |
| 6. Available Phosphorous as P <sub>2</sub> O <sub>5</sub> (kg/ha) | : 76.05             |
| 7. Available Potassium as K <sub>2</sub> O (kg/ha)                | : 79.29             |
| 8. Phosphorus as P (Kg/Ha)  | : 29.04             |
| 9. Organic Carbon (%)   | : 0.14              |
| 10. Organic Matter (%)  | : 0.24              |
| 11. Calcium as Ca (mg/kg)   | : 1,536             |
| 12. Sodium as Na (mg/kg)  | : 169               |
| 13. Potassium as K (mg/kg)  | : 66                |
| 14. Copper as Cu (mg/kg)  | : 5.87              |
| 15. Zinc as Zn (mg/kg)  | : 8.94              |
| 16. Iron as Fe (mg/kg)  | : 3.66              |
| 17. Manganese as Mn (mg/kg)                                       | : <2.0              |
| 18. Texture   | : <b>Sandy loam</b> |
| a) Sand (%)   | : 32                |
| b) Silt (%)   | : 54                |
| c) Clay (%)   | : 24                |

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

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## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### FUGITIVE EMISSION DATA

Name of the Industry & Address : **M/s. SAGAR CEMENTS LIMITED (MINE-2)**  
(Pedaveedu works)  
(Formerly known as M/s. AMARESWARI CEMENTS LIMITED)  
Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

PROTOCOL : IS-5182 (Part-4)

| S.No. | Location                       | Date of Sampling | Date of Analysis | SPM ( $\mu\text{g}/\text{m}^3$ ) | LIMITS                      |
|-------|--------------------------------|------------------|------------------|----------------------------------|-----------------------------|
| 1     | Near Drilling Area             | 20-6-2025        | 22-6-2025        | 1,132                            | 2000 $\text{mg}/\text{m}^3$ |
| 2     | Loading Area                   | 20-6-2025        | 22-6-2025        | 1,298                            |                             |
| 3     | Haulage Road cross in Mines    | 21-6-2025        | 22-6-2025        | 962                              |                             |
| 4     | Near Haulage Road exit in Mine | 21-6-2025        | 22-6-2025        | 1,178                            |                             |
| 5     | Pit - 2 Ramp                   | 21-6-2025        | 22-6-2025        | 1,282                            |                             |

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



## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### AIR BORNE DUST & FREE SILICA ANALYSIS

Name of the Industry & : **SAGAR CEMENTS LIMESTONE MINE-2 OF M/s. SAGAR CEMENTS LTD.,**  
Address Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Date of Collection : 19-6-2025  
Date of Analysis : 20-6-2025

| Sl.No. | Location              | Operation   | Designation     | Dust Concentration (mg/m <sup>3</sup> ) | Limit (mg/m <sup>3</sup> ) | Free Silica Content (%) | Limit (%) |
|--------|-----------------------|---|-----------------|---|----------------------------|-------------------------|-----------|
| 1      | Drilling Operator     | Drilling of LimeStone                                 | Driller         | 0.16                                    | 3.0                        | Not Detected            | 5.0       |
| 2      | Shovel Operator       | Unloading of Lime stone to crusher                    | Shovel Operator | 0.20                                    |                            | Not Detected            |           |
| 3      | Dumper Operator       | Movement of Dumpers carrying ROM from mine to crusher | HEMM Operator   | 0.14                                    |                            | Not Detected            |           |
| 4      | Water tanker Operator | Movement of Tanker carrying Water                     | Tanker Driver   | 0.18                                    |                            | Not Detected            |           |

#### Note:

1)

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

2)

Instrument Name : **Personal Sampler**  
Model No : APM 800;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 914-DTA-2013  
Calibration On : 31-5-2025  
Calibration due On: 30-5-2026

3)

Instrument Name : **Personal Sampler**  
Model No : APM 801;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 67-B-23 P  
Calibration On : 04-7-2024  
Calibration due On: 03-7-2025

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ISO 9001, 14001 & 45001  
Certified Company

## TEST REPORT

REF.NO: LAWN/SCL-M/2025

Report Date: 26-6-2025

### PERSONAL DUST & FREE SILICA ANALYSIS

Name of the Industry & : **SAGAR CEMENTS LIMESTONE MINE-2 OF M/s. SAGAR CEMENTS LTD.,**  
Address Pedaveedu (V), Mattampally (M),  
Suryapet - (Dist).

Date of Collection : 18-6-2025

Date of Analysis : 19-6-2025

| SI.No. | Location          | Name of Employees                           | Date of Birth | Age | Designation     | Dust Concentration (mg/m <sup>3</sup> ) | Limit (mg/m <sup>3</sup> ) | Free Silica Content (%) | Limit (%) |
|--------|-------------------|---|---------------|-----|-----------------|---|----------------------------|-------------------------|-----------|
| 1      | Drilling Operator | Mr. B. Josh<br>ID No. 90012                 | 11.07.1981    | 44  | Driller         | 0.09                                    | 3.0                        | Not Detected            | 5.0       |
| 2      | Shovel Operator   | Mr. G. Venkata Reddy<br>ID No: 90001        | 08.03.1986    | 33  | Shovel Operator | 0.12                                    |                            | Not Detected            |           |
| 3      | Dumper Operator   | Mr. V. Naveen<br>ID No. 28066               | 05.06.1986    | 39  | Helper          | 0.10                                    |                            | Not Detected            |           |
| 4      | Haul Road Cross   | Mr.<br>D. Raja Sekhar Reddy<br>ID No: 10158 | 08.04.1989    | 35  | Driver          | 0.07                                    |                            | Not Detected            |           |

#### Note:

1)

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

2)

Instrument Name : **Personal Sampler**  
Model No : APM 800;  
Make : ENVIROTECH Instruments Pvt.Ltd.,  
Serial number : 914-DTA-2013  
Calibration On : 31-5-2025  
Calibration due On: 30-5-2026

  
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