# SAGAR CEMENTS LIMITED

Date: 08.10.2026

SCL/ENV/CTO Monthly/2026/31

To,

**The Member Secretary,**
**State Pollution Control Board**
**Odisha, Paribesh Bhawan,**
**A/118, Nilakanth Nagar, Unit - VIII**
**Bhubaneswar-751012**

**Sub: Monthly third-party monitoring report of cement plant of the Sagar Cements Limited, Kalinga Nagar Industrial Complex, Jajpur Odisha for the period from Month of September-2026.**

**Ref:** Consent to operate order No. 3810 IND-I-CON-6806, dated-23.03.2026, online application ID No. 7139126, dated-16.12.2025.

Dear sir,

We are submitting herewith Monthly third-party monitoring report of cement plant of the Sagar cements Limited, Kalinga Nagar Industrial Complex, Jajpur Odisha for the period from Month of September-2026.
This is for your information please.

Thanking You,

Yours faithfully

for: **Sagar Cements Limited**

Sagar Cements Ltd. ★ DT..... ★ Kalinganagar Industrial Complex

**I.P. Srivastava**
**(Authorized Signatory)**

**Encl. Doc.:** Monthly third-party monitoring report
**Copy to: The Regional Officer, State Pollution Control Board Kalinga Nagar, At-Dhabalagiri, Po – F.C Project, Jajpur Road, Dist – Jajpur – 755020**

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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

# MONTHLY MONITORING AREPORT
## (SEPTEMBER-2026)

## ON

# ENVIRONMENTAL MONITORING
## AT

## SAGAR CEMENTS LIMITED
**KALINGA NAGAR,INDUSTRIAL COMPLEX**
**DIST-JAJPUR, ODISHA-755026.**

*Prepared by:-*


**VISIONTEK CONSULTANCY SERVICES PVT. LTD**
*(An Enviro Engineering Consulting Cell)*
**Plot No-M22&M23,Chandaka Industrial Estate, Patia- 751024**
**Tel. : 0674-3511721 E-mail : visiontekin@gmail.com, visiontekin@yahoo.co.in,**
**Visit us at: www.visiontek.org**

**Ref: Envlab/26-27/TR-08789** **Date: 06.10.2026**

## AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER-2026

1. Name of Industry : **M/s SAGAR CEMENTS LIMITED, JAJPUR (Kalinganagar Industrial complex, Danagadi,JajpurOdisha)**
2. Sampling Location : **AAQMS-1 : Near Plant Main Gate**
3. Monitoring Instruments : RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer.
4. Sample Collected By : VCSPL representative in presence of client's representative

| Date | PARAMETERS | | | |
|---|---|---|---|---|
| | $PM_{10}$ ($\mu g/m^3$) | $PM_{2.5}$ ($\mu g/m^3$) | $SO_2$ ($\mu g/m^3$) | $NO_x$ ($\mu g/m^3$) |
| **02.09.2026** | 49.5 | 24.8 | 7.6 | 11.9 |
| **05.09.2026** | 51.2 | 25.4 | 7.4 | 11.8 |
| **09.09.2026** | 47.8 | 24.1 | 7.8 | 12.6 |
| **12.09.2026** | 50.4 | 25.2 | 7.5 | 12.4 |
| **16.09.2026** | 53.7 | 27.3 | 7.9 | 11.7 |
| **19.09.2026** | 47.4 | 24.3 | 6.1 | 11.5 |
| **23.09.2026** | 46.8 | 23.9 | 6.5 | 11.3 |
| **26.09.2026** | 49.7 | 25.1 | 6.2 | 11.2 |
| **Monthly Averages** | **49.6** | **25.0** | **7.1** | **11.8** |
| **NAAQ Standard** | **100** | **60** | **80** | **80** |
| **Testing method** | **Gravimetric** IS 5182 (Part-23) RA2019 | **Gravimetric** IS 5182 (Part-24) RA2019 | **Improved West and Gaeke method** IS 5182 (Part-2) RA 2017 | **Modified Jacob & Hochheiser (Na-Arsenite)** IS 5182 (Part-6) RA 2012 |

Remarks:

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Reviewed By:

Approved By:

**Ref: Envlab/26-27/TR- 08790** **Date:06.10.2026**

## AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER-2026

1.Name of Industry : **M/s SAGAR CEMENTS LIMITED, JAJPUR**
**(Kalinganagar Industrial complex, Danagadi, Jajpur**

2.Sampling Location : **AAQMS-2 : NEAR TRUCK TRIPPLER BOUNDARY WALL**

3.Monitoring Instruments : RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer.

4.Sample Collected By : VCSPL representative in presence of client's representative

| Date | PARAMETERS | | | |
|---|---|---|---|---|
| | $PM_{10}$ ($\mu g/m^3$) | $PM_{2.5}$ ($\mu g/m^3$) | $SO_2$ ($\mu g/m^3$) | $NO_x$ ($\mu g/m^3$) |
| **02.09.2026** | 52.8 | 26.4 | 7.9 | 12.7 |
| **05.09.2026** | 51.5 | 25.3 | 7.8 | 11.9 |
| **09.09.2026** | 50.9 | 25.5 | 7.5 | 12.8 |
| **12.09.2026** | 49.6 | 24.3 | 7.6 | 11.7 |
| **16.09.2026** | 51.7 | 25.4 | 7.3 | 12.5 |
| **19.09.2026** | 48.7 | 24.2 | 6.4 | 10.7 |
| **23.09.2026** | 49.8 | 25.4 | 6.2 | 11.6 |
| **26.09.2026** | 50.6 | 25.3 | 6.1 | 11.4 |
| **Monthly Averages** | **50.7** | **25.2** | **7.1** | **11.9** |
| **NAAQ Standard** | **100** | **60** | **80** | **80** |
| **Testing method** | **Gravimetric** IS 5182 (Part-23) RA2019 | **Gravimetric** IS 5182 (Part-24) RA2019 | **Improved West and Gaeke method** IS 5182 (Part-2) RA 2017 | **Modified Jacob & Hochheiser (Na-Arsenite)** IS 5182 (Part-6) RA 2012 |

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**Approved By:** VISIONTEK CONSULTANCY SERVICES PVT. LTD.

**Ref: Envlab/26-27/TR-08790** **Date: 06.10.2026**

## AMBIENT NOISE QUALITY ANALYSIS REPORT FOR SEPTEMBER-2026

1.Name of Industry : **M/s SAGAR CEMENTS LIMITED, JAJPUR**
**Kalinganagar Industrial complex, Danagadi, Jajpur, Odisha**

2.Sample Collected By : VCSPL representative in presence of Client's representative

3.Date of Sampling : **23.09.2026**

| Sl. No. | Monitoring Locations | CPCB [dB (A)] Leq Day Time | Noise level(dB (A) Leq) |
|---|---|---|---|
| | | | Day Time |
| 1 | **NQ1**:Near Plant Main Gate Area | **75** | 59.7 |
| 2 | **NQ2**:Near Cement Mill Area | **75** | 56.5 |
| 3 | **NQ3**: Truck trippler | **75** | 57.4 |
| 4 | **NQ4**:Chanda villege | **55** | 46.5 |
| 5 | **NQ5**:Jakhapura villege | **55** | 44.8 |
| 6 | **NQ6**:Ravana villege | **55** | 47.9 |

| Sl. No. | Monitoring Locations | CPCB [dB (A)] Leq Night Time | Noise level(dB (A) Leq) |
|---|---|---|---|
| | | | Night Time |
| 1 | **NQ1**:Near Plant Main Gate Area | **70** | 51.6 |
| 2 | **NQ2**:Near Cement Mill Area | **70** | 49.4 |
| 3 | **NQ3**: Truck trippler | **70** | 50.7 |
| 4 | **NQ4**:Chanda villege | **45** | 40.4 |
| 5 | **NQ5**:Jakhapura villege | **45** | 39.2 |
| 6 | **NQ6**:Ravana villege | **45** | 40.7 |

NoiseStandard as per CPCB guidelines:

| | | |
|---|---|---|
| **Industrial Zone** | **75** | **70** |
| **Residential Area** | **55** | **45** |

**Instrument Used: Sound Level Mete**

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Approved By:

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**Ref: Envlab/26-27/TR-08791** **Date: 06.10.2026**

## STP WATER QUALITY ANALYSIS REPORT FOR SEPTEMBER-2026

1. Name of Industry : **M/s SAGAR CEMENTS LIMITED**
   **Kalinganagar Industrial complex, Danagadi, Jajpur, Odisha**
1. Date of Sampling : 24.09.2026
2. Date of Analysis : 25.09.2026 to 01.10.2026
2. Sampling Location : **STW-1**:Inlet Water From STP 50 KLD
   **STW-2**: Outlet Water From STP 50 KLD
3. Sample Drawn By : VCSPL Representative in presence of Client's Representative

| SI. No. | Parameters | Unit | Testing Methods | Analysis Results | |
|---|---|---|---|---|---|
| | | | | STW-1 | STW-2 |
| 1 | pH Value at $25^0$C | mg/l | **pH Meter** APHA $23^{RD}$ Ed,2017 : 4500$H^+$ B | 7.39 | 7.52 |
| 2 | Biological Oxygen Demand as BOD (3 Days At $27^0$C) | mg/l | **Oxygen Depletion Method** IS 3025(P-44) : 1993, RA 2003 | 11.8 | 7.9 |
| 3 | Total Suspended Solids as TSS | mg/l | **Gravimetric Method** APHA $23^{RD}$ Ed,2017 : 2540 D | 12.7 | 6.4 |
| 3 | FECAL CALIFORM | mg/l | **APHA 9221 E** | 17 | <1.8 |

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**Reviewed By:** VISIONTEK CONSULTANCY SERVICES PVT. LTD.

**Approved By:** VISIONTEK CONSULTANCY SERVICES PVT. LTD.

# Visiontek Consultancy Services Pvt. Ltd.

*(Committed For Better Environment)*

**Ref: Envlab/26-27/TR-08792** **Date:06.10.2026**

## STACK EMISSION MONITORING REPORT FOR SEPTEMBER-2026

### CUSTOMER DETAILS

| | | |
|---|---|---|
| **Customer Name & Address** | : | **M/s SAGAR CEMENTS LIMITED**<br>**Kalinganagar Industrial complex, Danagadi, Jajpur,Odisha** |

### SAMPLE DETAILS

| | | | | |
|---|---|---|---|---|
| **Sample Location & Code** | : | **ST1: Cement Mill** | **Sampling Procedure** | **IS 11255** |
| **Date of Sampling** | : | **24.09.2026** | **Material Construction of stack** | **MS Plate** |
| **Time of Sampling** | : | **16.10Hrs-16.50 Hrs** | **Shape of Stack** | **Circular** |
| **Date of Analysis** | : | **25.09.2026 TO 29.09.2026** | **Height of Stack from Ground Level** | **52.6 meter** |
| **Emission Due To** | : | **Cement Grinding** | **Diameter of Stack** | **2.36 meter** |
| | | | **Height of Sampling Point from Ground Level** | **40.6 meter** |

| SL. No. | Name of the Parameters | Testing Methods | Prescribed Standard as per CTO | Units | Result |
|---|---|---|---|---|---|
| 1. | Temperature of Stack | IS 11255: 1985(Part 3) | -- | $^0K$ | 357 |
| 2. | Velocity of Gas | IS 11255: 1985(Part 3) | -- | m/sec | 10.56 |
| 3. | Quantity of gas flow, at dry Condition | IS 11255: 1985(Part 3) | -- | $Nm^3/hr$ | 137041.09 |
| 4. | Moisture | IS 11255: 1985(Part 3) | -- | % | 0.55 |
| 5. | Concentration of Particulate Matter (as PM) | IS 11255: 1985 (Part 1) | 30 $mg/Nm^3$ | $mg/Nm^3$ | 9.0 |
| 6. | Sulphur Dioxide (as $SO_2$) | IS 11255: 1985(Part 2) | -- | $mg/Nm^3$ | 1.3 |
| 7. | Nitrogen Oxide (as NOx) | IS 11255: 2005 (Part 7) | -- | $mg/Nm^3$ | 1.5 |

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**Reviewed By:**

**Approved By:**

Plot No.- M-22 & 23, Chandaka Industrial Estate, Patia, Bhubaneswar, Khordha, Odisha-751024, India Tel.: 0674-3511721
E-mail: visiontek@visiontek.org, visiontekin@gmail.com
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## TEST REPORT

*Ref:* **Envlab/25-26/TR-08793** **Date:06.10.2026**

**Customer Name & Address : M/s SAGAR CEMENTS LIMITED,JAJPUR**
**Kalinganagar Industrial complex, Danagadi, Jajpur,Odisha**

| | | | |
|---|---|---|---|
| Sample Location | DW:ADMIN BUILDING | Sampled by | VCSPL'S Representative |
| Sample Description | Drinking Water | Sampling Procedure | APHA 1060 |
| Sample Source | Canal water | Sample Received on | 24.09.2026 |
| Sample Condition | Ice Preserved ( Sealed plastic & Sterilized bottle) | | |
| Sampling Date | 23.09.2026 | Test Completed on | 24.09.2026 to 30.09.2026 |

| Sl. No | Parameters | Unit | Standard as per IS 10500: 2012 Amnd 2015 & 2018 (Acceptable Limit) | Test methods | Results |
|---|---|---|---|---|---|
| 1 | Color | Hazen | Max 5 | 1S 3025(Part-4):2017 | 1 |
| 2 | Odour | -- | Agreeable | 1S 3025(Part-5):2018 | Agreeable |
| 3 | pH value 25°C | -- | 6.5-8.5 | 1S 3025(Part11):2017 | 7.58 |
| 4 | Turbidity | NTU, max | Max1.0 | 1S 3025(Part-10):2017 | <1.0 |
| 5 | Total Dissolved Solids (at 180°C) | mg/l | Max 500 | 1S 3025(Part-16):2017 | 157.6 |
| 6 | Temperature | $^0$C | - | 1S 3025(Part-11):2023 | 21.8 |
| 7 | Electrical Conductivity (at 25°C) | µS/cm | - | 1S 3025(Part-14):2019 | 278.7 |
| 8 | Calcium (as Ca) | mg/l ,max | Max 75 | 1S 3025(Part-40):2019 | 18.3 |
| 9 | Chloride (as Cl) | mg/l ,max | Max 250 | 1S 3025(Part-32):2019 | 30.4 |
| 10 | Copper ( as Cu) | mg/l ,max | Max 0.05 | APHA23rd Edition 3111B:2017 | <0.05 |
| 11 | Fluoride ( as F) | mg/l ,max | Max 1.0 | 1S 3025(Part-60):2023 | 0.05 |
| 12 | Free Residual Chlorine | mg/l ,min | Max 0.2 | 1S 3025(Part-25):2019 | <0.1 |
| 13 | Iron (as Fe) | mg/l ,max | Max1.0 | APHA23rd Edition 3111B:2017 | 0.32 |
| 14 | Magnesium (as Mg) | mg/l ,max | Max 30 | 1S 3025(Part-46):2019 | 14.2 |
| 15 | Manganese (as Mn) | mg/l ,max | Max 0.1 | APHA23rd Edition 3111B:2017 | <0.03 |
| 16 | Mineral oil | mg/l ,max | Max 0.5 | 1S 3025(Part-39):2021 | <0.05 |
| 17 | Phenolic compounds | mg/l ,max | Max 0.001 | APHA23rd Edition 5530B,D:2017 | <0.05 |
| 18 | Sulphate (as $SO_4$) | mg/l ,max | Max 200 | 1S 3025(Part-24):2019 | 10.4 |
| 19 | Nitrate (as $NO_3$) | mg/l ,max | Max 45 | 1S 3025(Part-34):2019 | 5.2 |
| 20 | Total Alkalinity as CaCO3 | mg/l ,max | Max 200 | 1S 3025(Part-23):2019 | 70 |
| 21 | Total Hardness as CaCO3 | mg/l ,max | Max 200 | 1S 3025(Part-21):2019 | 104 |
| 22 | Carbonate Alaklinity as CO3 | mg/l ,max | - | 1S 3025(Part-23):2023 | <5.0 |
| 23 | Bi-Carbonate Alaklinity as HCO3 | mg/l ,max | - | 1S 3025(Part-23):2023 | 73 |
| 24 | Sodium as Na | mg/l ,max | - | APHA23rd Edition 3500Na:2017 | 9.6 |
| 25 | Potassium as K | mg/l ,max | - | APHA23rd Edition 3500K:2017 | 4.1 |
| 26 | Zinc( as Zn) | mg/l ,max | Max 5.0 | APHA23rd Edition 3111B:2017 | <0.1 |
| 27 | Cadmium (as Cd) | mg/l ,max | Max 0.003 | APHA23rd Edition 3111B:2017 | <0.0006 |
| 28 | Cyanide (as CN) | mg/l ,max | Max 0.05 | 1S 3025(Part-27):2019 | <0.01 |
| 29 | Lead (as Pb) | mg/l ,max | Max 0.01 | APHA23rd Edition 3111B:2017 | <0.002 |
| 30 | Mercury (as Hg) | mg/l ,max | Max 0.001 | APHA23rd Edition 3111B:2017 | <0.002 |
| 31 | Total arsenic (as As) | mg/l ,max | Max 0.01 | APHA23rd Edition 3500As:2017 | <0.002 |
| 32 | Selenium( as Se) | mg/l ,max | Max 0.01 | APHA23rd Edition 3500Se:2017 | <0.002 |
| 33 | Total Coli forms | MPN/100ml | Shall not be detected in any 100 ml sample | IS 15185:2016 | Absent |
| 34 | Fecal Coli Form | MPN/100ml | --- | APHA 9221 E | <1.8 |
| 35 | E. coli | MPN/100ml | Shall not be detected in any 100 ml sample | IS 15185:2016 | Absent |

*** End Report ***

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Reviewed By:

Approved By:

## TEST REPORT

**Ref:Envlab/26-27/TR- 08794** **Date:06.10.2026**

**Customer Name & Address : M/s SAGAR CEMENTS LIMITED,JAJPUR**
**Kalinganagar Industrial complex, Danagadi, Jajpur, Odisha**

| | | | | | |
|---|---|---|---|---|---|
| Name of the Industry | : | **M/s SAGAR CEMENTS LIMITED, JAJPUR** | Date of Sampling | : | **24.09.2026** |
| | | | Sample Received on | : | **25.09.2026** |
| Sample Descrption | : | **1.Ambient Air (Buffer Zone)** | Sampling Procedure | : | VCSPL/F-SOP/001, Dt. 04.09.2021 |
| | | | Sampling Location | : | **VILLAGE CHANDA** |
| Environment Condition during Sampling | : | Atmospheric Temp.: 29 – 33°C<br>Barometric Pressure: 754 mm of Hg | Instrument used for Sampling | : | RDS (APM 460 BL),<br>FPS (APM 550), VOC Sampler |
| Sample Condition | ; | Air Tight Sealed and gaseous Sample Solution Refrigerated | Sampling done by | : | **VCSPL'S Representative** |
| Test Started on | : | **25.09.2026** | Test Completed on | : | **29.09.2026** |

**1.Chemical Testing**

**A. Atmospheric Pollution**

| Sl. No | Parameters | Unit | Test Method | National Ambient Air Quality Standard, CPCB, 18th Nov. 2009 | Analysis Result |
|---|---|---|---|---|---|
| 1 | Particulate matter as $PM_{10}$ | ($\mu g/m^3$) | IS 5182: Part 23: 2006, RA 2017 | **100** | **50.6** |
| 2 | Particulate matter as $PM_{2.5}$ | ($\mu g/m^3$) | IS 5182 (Part 24):2019 | **60** | **25.3** |
| 3 | Sulphur Oxides as $SO_2$ | ($\mu g/m^3$) | IS 5182 (Part 2): 2001, RA 2017 | **80** | **19.2** |
| 4 | Nitrogen Oxides as NOx | ($\mu g/m^3$) | IS 5182 (Part 6): 2006, RA 2017 | **80** | **18.7** |

**Remarks:**

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VISIONTEK CONSULTANCY SERVICES PVT. LTD.

**Reviewed by**

VISIONTEK CONSULTANCY SERVICES PVT. LTD.

**Approved by:**

**Ref. No: EnvLab /26-27/TR-08796** **TEST REPORT** **Date:06.10.2026**

**Customer Name & Address : M/s SAGAR CEMENTS LIMITED, JAJPUR**

| | | | | | |
|---|---|---|---|---|---|
| Name of the Industry | : | **M/s SAGAR CEMENTS LIMITED, JAJPUR** | Date of Sampling | : | **24.09.2026** |
| | | | Sample Received on | : | **25.09.2026** |
| Sample Description | : | **3.Ambient Air (Buffer Zone)** | Sampling Procedure | : | VCSPL/F-SOP/001, Dt. 04.09.2021 |
| | | | Sampling Location | : | **VILLAGE RAVANA** |
| Environment Condition during Sampling | : | Atmospheric Temp.: 29 – 33°C<br>Barometric Pressure: 754 mm of Hg | Instrument used for Sampling | : | RDS (APM 460 BL),<br>FPS (APM 550), VOC Sampler |
| Sample Condition | ; | Air Tight Sealed and gaseous Sample Solution Refrigerated | Sampling done by | : | **VCSPL'S Representative** |
| Test Started on | : | **25.09.2026** | Test Completed on | : | **29.09.2026** |

**2. Chemical Testing**

**B. Atmospheric Pollution**

| Sl. No | Parameters | Unit | Test Method | National Ambient Air Quality Standard, CPCB, 18th Nov. 2009 | Analysis Result |
|---|---|---|---|---|---|
| 1 | Particulate matter as $PM_{10}$ | ($\mu g/m^3$) | IS 5182 : Part 23: 2006, RA 2017 | **100** | **52.7** |
| 2 | Particulate matter as $PM_{2.5}$ | ($\mu g/m^3$) | IS 5182 (Part 24):2019 | **60** | **25.3** |
| 3 | Sulphur Oxides as $SO_2$ | ($\mu g/m^3$) | IS 5182 (Part 2): 2001, RA 2017 | **80** | **21.5** |
| 4 | Nitrogen Oxides as NOx | ($\mu g/m^3$) | IS 5182 (Part 6): 2006, RA 2017 | **80** | **23.7** |

**Remarks:**

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**Approved by:**

# Visiontek Consultancy Services Pvt. Ltd

*(Committed For Better Environment)*

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