



# SAGAR CEMENTS LIMITED

Date: 09.10.2025

SCL/ENV/Monthly/2025/26

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, Kalinganagar Industrial Complex, Jajpur Odisha for the period from Month of September-2025.**

**Ref: Consent to operate order No. 4799 IND-I-CON-6806, dated-27.03.2023, online application ID No. 4562731, dated-20.12.2022.**

Dear sir,

We are submitting herewith Monthly third-party monitoring report of cement plant of the Sagar cements Limited, Kalinganagar Industrial Complex, Jajpur Odisha for the period from Month of September-2025.  
This is for your information please.

Thanking You,

Yours faithfully

for: **Sagar Cements Limited.**

*I.P. Srivastava*  
**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**



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

Phone : +91-40-23351571, 23356572 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 CIN : U26922TS2010PTC171799 GSTIN : 21AACCS8680H1ZX



# ENVIRONMENTAL MONITORING REPORT

# SEPTEMBER 2025

*Prepared By*



## SAGAR CEMENT PLANT

### CONTENTS

The following attributes, for the Environmental Parameters as proposed, were monitored during the month of SEPTEMBER 2025 at the given frequency.

SI No	Attribute	No of Parameters	Frequency	No of Location
1	Ambient Air (Lease)	05 Parameters	Twice a Week	04
2	Ambient Air (Lease)	02 Parameters	Twice a Week	01
3	Ambient Noise	Noise (Day & Night)	Once a Month	04
4	Wastewater STP (outlet)	Waste Water Parameters	Once a Month	02
5	Drinking-Water	As per IS 10500	Once a Month	01
6	Stack Emission Monitoring	As per IS 11255	Once a Month	01
7	Surface Water Quality	As per IS 2296/ CPCB	Once a Month	02
8	SPM(Fugitive)	01Parameter	Quarterly	03



**NAME OF THE PLANT: SAGAR CEMENT**

**MONTH: SEPTEMBER 2025**

**DESCRIPTION OF WORK: AMBIENT AIR IN LEASE ZONE  
05 PARAMETERS**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/285-293/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Air Sample		
Sample Registration No.	006	Name of Location	Near Plant Main Gate Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	02.09.2025 - 30.09.2025	Time of Sample Collection	-
Start Date of Analysis	03.09.2025	End Date of Analysis	01.10.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/285-293/09/2025
	Humidity: 62%		

Parameters	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Suphur Di-oxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Oxides (NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon mono-oxides as CO mg/m <sup>3</sup>	
PROTOCOL	IS:5182(Part-23)	IS:5182(Part-24)	IS:5182(Part-2)	IS:5182(Part-6)	IS:5182(Part-10)	
Limits of Detection	10-1000	10-1000	5-200	5-200	0.1-100	
Limit as per National Ambient Air Quality Standards	100	60	80	80	4	
S. No.	Sampling Date	Results				
1.	03.09.2025	31.2	15.3	13.2	18.8	0.42
2.	04.09.2025	27.6	15.1	12.3	18.7	0.41
3.	08.09.2025	31.4	16.4	13.4	18.2	0.41
4.	09.09.2025	34.1	18.0	14.3	16.4	0.42
5.	15.09.2025	44.2	18.2	12.3	18.9	0.41
6.	16.09.2025	40.9	16.1	12.2	18.7	0.41
7.	23.09.2025	30.8	14.5	13.2	17.5	0.42
8.	24.09.2025	32.6	18.0	12.4	16.3	0.42
9.	29.09.2025	37.0	18.7	12.3	18.3	0.43
Monthly Average		<b>34.4</b>	<b>16.7</b>	<b>12.8</b>	<b>18.0</b>	<b>0.42</b>

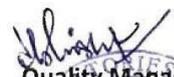
Instrument Details		
Instrument Used	Instrument Model	Calibration Due
Respirable Dust sampler	RDS APM-460 (241G24)	30.09.2025
Fine Particulate sampler	Envirotech APM MMFC 550 (353-H24)	30.09.2025

**Opinion/Observation:** Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Verified By

  
Technical Manager

Authorized By

  
Quality Manager  


## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

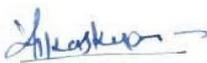
NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/294-302/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Air Sample		
Sample Registration No.	006	Name of Location	Near Cement Mill Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	02.09.2025 - 30.09.2025	Time of Sample Collection	-
Start Date of Analysis	03.09.2025	End Date of Analysis	01.10.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/294-302/09/2025
	Humidity: 62%		

Parameters	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Suphur Di-oxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Oxides (NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon mono-oxides as CO mg/m <sup>3</sup>	
<b>PROTOCOL</b>	<b>IS:5182(Part-23)</b>	<b>IS:5182(Part-24)</b>	<b>IS:5182(Part-2)</b>	<b>IS:5182(Part-6)</b>	<b>IS:5182(Part-10)</b>	
<b>Limits of Detection</b>	<b>10-1000</b>	<b>10-1000</b>	<b>5-200</b>	<b>5-200</b>	<b>0.1-100</b>	
<b>Limit as per National Ambient Air Quality Standards</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	
<b>S. No.</b>	<b>Sampling Date</b>	<b>Results</b>				
1.	03.09.2025	35.0	17.9	12.8	16.2	0.42
2.	04.09.2025	34.2	15.6	12.9	17.7	0.40
3.	08.09.2025	34.6	15.2	14.1	18.0	0.43
4.	09.09.2025	31.4	16.0	14.5	17.8	0.43
5.	15.09.2025	42.6	17.1	14.6	16.5	0.42
6.	16.09.2025	46.9	19.7	13.2	16.5	0.40
7.	23.09.2025	33.8	17.2	13.8	15.6	0.43
8.	24.09.2025	33.9	16.0	13.5	16.0	0.42
9.	29.09.2025	38.1	18.0	12.5	18.7	0.42
<b>Monthly Average</b>		<b>36.7</b>	<b>17.0</b>	<b>13.5</b>	<b>17.0</b>	<b>0.42</b>

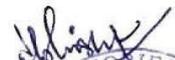
Instrument Details		
Instrument Used	Instrument Model	Calibration Due
Respirable Dust sampler	RDS EI-142 (247-A-22)	30.09.2025
Fine Particulate sampler	Envirotech EI-132 (229-A-22)	30.09.2025

**Opinion/Observation:** Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Verified By

  
Technical Manager

Authorized By

  
Quality Manager  


## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/303-311/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Air Sample		
Sample Registration No.	006	Name of Location	Near Hopper Building Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	02.09.2025 - 30.09.2025	Time of Sample Collection	-
Start Date of Analysis	03.09.2025	End Date of Analysis	01.10.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/303-311/09/2025
	Humidity: 62%		

Parameters	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Suphur Di-oxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Oxides (NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon mono-oxides as CO mg/m <sup>3</sup>	
<b>PROTOCOL</b>	IS:5182(Part-23)	IS:5182(Part-24)	IS:5182(Part-2)	IS:5182(Part-6)	IS:5182(Part-10)	
<b>Limits of Detection</b>	10-1000	10-1000	5-200	5-200	0.1-100	
<b>Limit as per National Ambient Air Quality Standards</b>	100	60	80	80	4	
<b>S. No.</b>	<b>Sampling Date</b>	<b>Results</b>				
1.	03.09.2025	34.5	15.1	12.0	16.7	0.42
2.	04.09.2025	32.4	16.4	12.8	18.3	0.40
3.	08.09.2025	32.4	15.6	13.9	15.7	0.41
4.	09.09.2025	31.1	18.3	13.2	16.5	0.43
5.	15.09.2025	38.0	16.4	12.8	17.3	0.40
6.	16.09.2025	44.4	19.3	12.4	17.4	0.42
7.	23.09.2025	31.6	18.2	12.3	18.3	0.42
8.	24.09.2025	32.8	18.8	14.5	15.3	0.41
9.	29.09.2025	36.8	17.0	14.9	15.3	0.42
<b>Monthly Average</b>		<b>34.9</b>	<b>17.2</b>	<b>13.2</b>	<b>16.8</b>	<b>0.41</b>

Instrument Details		
Instrument Used	Instrument Model	Calibration Due
Respirable Dust sampler	RDS APM-460 (241G24)	30.09.2025
Fine Particulate sampler	Envirotech APM MMFC 550 (353-H24)	30.09.2025

**Opinion/Observation:** Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Verified By

Technical Manager

Authorized By

Quality Manager

E-COMEN LABORATORIES PRIVATE LIMITED  
B-1/4, Second Floor, Sector-H, Aliganj, Dist. Lucknow, U.P. 226 002

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/312-320/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Air Sample		
Sample Registration No.	006	Name of Location	Near Truck Tippler Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	01.09.2025 - 30.09.2025	Time of Sample Collection	-
Start Date of Analysis	04.09.2025	End Date of Analysis	01.10.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/312-320/09/2025
	Humidity: 62%		

Parameters	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Suphur Di-oxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	Nitrogen Oxides (NO <sub>2</sub> ) µg/m <sup>3</sup>	Carbon mono-oxides as CO mg/m <sup>3</sup>	
PROTOCOL	IS:5182(Part-23)	IS:5182(Part-24)	IS:5182(Part-2)	IS:5182(Part-6)	IS:5182(Part-10)	
Limits of Detection	10-1000	10-1000	5-200	5-200	0.1-100	
Limit as per National Ambient Air Quality Standards	100	60	80	80	4	
S. No.	Sampling Date	Results				
1.	03.09.2025	34.3	15.9	12.6	18.5	0.40
2.	04.09.2025	33.6	15.7	12.2	15.8	0.40
3.	08.09.2025	32.5	18.9	12.0	18.7	0.41
4.	09.09.2025	33.5	17.6	14.1	17.6	0.40
5.	15.09.2025	43.1	16.8	13.8	18.5	0.41
6.	16.09.2025	40.2	18.2	14.0	15.4	0.41
7.	23.09.2025	34.3	18.1	14.7	15.4	0.41
8.	24.09.2025	34.0	15.2	13.8	16.7	0.43
9.	29.09.2025	41.2	16.1	12.3	17.1	0.43
Monthly Average		36.3	16.9	13.3	17.1	0.41

### Instrument Details

Instrument Used	Instrument Model	Calibration Due
Respirable Dust sampler	RDS APM 460 (231G24)	30.09.2025
Fine Particulate sampler	Envirotech APM MMFC 550 (352H24)	30.09.2025

**Opinion/Observation:** Analyzed parameters in above tested samples are within standard limit as per NAAQMS Guidelines.

Verified By

  
Technical Manager

Authorized By

  
Quality Manager  




**NAME OF THE PLANT: SAGAR CEMENT**

**MONTH: SEPTEMBER 2025**

**DESCRIPTION OF WORK: AMBIENT AIR IN LEASE ZONE  
02 PARAMETERS**



***ECOMEN MINING PVT. LTD.***

**TEST REPORT**

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/321-329/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Air Sample		
Sample Registration No.	006	Name of Location	Near Hopper Building Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	01.09.2025 - 30.09.2025	Time of Sample Collection	-
Start Date of Analysis	04.09.2025	End Date of Analysis	01.10.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/321-329/09/2025
	Humidity: 62%		

Parameters	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>
PROTOCOL	IS:5182(Part-23)	IS:5182(Part-24)
Limits of Detection	10-1000	10-1000
Limit as per National Ambient Air Quality Standards	100	60
S. No.	Sampling Date	Results
1.	03.09.2025	33.0      16.0
2.	04.09.2025	33.8      18.4
3.	08.09.2025	32.6      15.5
4.	09.09.2025	30.8      18.9
5.	15.09.2025	42.0      15.8
6.	16.09.2025	46.0      15.1
7.	23.09.2025	34.4      18.7
8.	24.09.2025	33.6      17.6
9.	29.09.2025	37.1      17.9
Monthly Average	<b>35.9</b>	<b>17.1</b>

Instrument Details		
Instrument Used	Instrument Model	Calibration Due
Respirable Dust Sampler	RDS 9000 (030825)	30.09.2025
Fine Particulate Sampler	Envirotech APM 550 (1086-DTB-2012)	30.09.2025

**Opinion/Observation:** Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Verified By

Technical Manager

Authorized By

Quality Manager



**NAME OF THE PLANT:**

**SAGAR CEMENT**

**MONTH:**

**SEPTEMBER 2025**

**DESCRIPTION OF WORK:**

**NOISE MONITORING**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/13

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AN/006/330-334/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Ambient Noise Level Monitoring		
Sample Registration No.	006	Name of Location	Mentioned Below
Sampling Method	IS 9989:1981	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	23.09.2025 - 27.09.2025	Time of Sample Collection	-
Start Date of Analysis	28.09.2025	End Date of Analysis	30.09.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ± 2°C	Sample ID Code	ECO/LAB/330-334/09/2025
	Humidity: 68 % RH	Instrument Name	Sound Level Meter

S. No.	Start Time	Duration	Noise levels - Results					Limits as per CPCB		Test Method
			Location	L min, dB(A)	L max, dB(A)	Leq Day	Leq Night	Day Time	Night Time	
								Day Time	Night Time	
1	06.00 AM	24 Hrs.	Near Plant Main Gate Area	42.1	76.2	62.8	59.4	75 dB(A)	70 dB(A)	IS 9989:1981, RA 2014
2	06.00 AM	24 Hrs.	Near Cement Mill Area	54.5	79.4	68.2	63.1	75 dB(A)	70 dB(A)	IS 9989:1981, RA 2014
3	06.00 AM	24 Hrs.	Near Hopper Building Area	57.8	76.1	66.3	60.2	75 dB(A)	70 dB(A)	IS 9989:1981, RA 2014
4	06.00 AM	24 Hrs.	Near Truck Tippler Area	50.4	76.8	68.1	59.8	75 dB(A)	70 dB(A)	IS 9989:1981, RA 2014

Category Area/ Zone	Limits in dB (A)	
	Day Time (6.00 Hrs. to 22.00 Hrs.)	Night Time (22.00 Hrs. to 6.00 Hrs.)
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

**Opinion/Observation:** Noise Level is meeting requirements as per CPCB Guidelines.

Verified By

Technical Manager

Authorized By

Quality Manager



**NAME OF THE PLANT:**

**SAGAR CEMENT**

**MONTH:**

**SEPTEMBER 2025**

**DESCRIPTION OF WORK:**

**STP (WASTE WATER)**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/07

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECO/LAB/WW/006/335/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Waste Water		
Sample Registration No.	006	Name of Location	STP Inlet 50 KLD
Sampling Method	APHA	Sample Collected By	Ecomen Lab Team
Date of Sample Collection	23.09.2025	Time of Sample Collection	-
Date of Sample Received	23.09.2025	Time of Sample Received	05:35 PM
Start Date of Analysis	25.09.2025	End Date of Analysis	30.09.2025
Laboratory Environmental Condition	Temperature: 27 ± 2 °C	Sample Quantity	As Per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/335/09/2025

S. No.	TESTS	Unit	PROTOCOL	RESULT	Detection Range	Standard G.S.R 422 (E)
						Desirable Limit
1.	pH	-	APHA, 24 <sup>th</sup> Ed. 2023, 4500H+ A+B	6.32	2.0 -12	5.5-9.0
2.	Total Suspended Solids as TSS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540-D	22.0	5 - 5000	100.0
3.	Total Dissolved Solids as TDS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540C	346.0	10-10000	-
4.	Biochemical Oxygen Demand as BOD 5 Days at 20°C	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5210 A+B	8.5	5-10000	30.0
5.	Chemical Oxygen Demand as COD	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5220 A+C	96.0	5-50000	250.0

**Statement of Conformity:** The above tested parameters confirm as per GSR-422 (E) limits for above tested parameters and the results are related to the sample tested.

**Note:** - BDL- Below Detection Limit.

Verified By

Technical Manager

Authorized By

Quality Manager

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/07

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECO/LAB/WW/006/336/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Waste Water		
Sample Registration No.	006	Name of Location	STP Outlet 50 KLD
Sampling Method	APHA	Sample Collected By	Ecomen Lab Team
Date of Sample Collection	23.09.2025	Time of Sample Collection	-
Date of Sample Received	23.09.2025	Time of Sample Received	05:35 PM
Start Date of Analysis	25.09.2025	End Date of Analysis	30.09.2025
Laboratory Environmental Condition	Temperature: 27 ± 2 °C	Sample Quantity	As Per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/336/09/2025

S. No.	TESTS	Unit	PROTOCOL	RESULT	Detection Range	Standard G.S.R 422 (E)
						Desirable Limit
01.	Ph	-	APHA, 24 <sup>th</sup> Ed. 2023, 4500H+ A+B	6.82	2.0 -12	5.5-9.0
02.	Total Suspended Solids as TSS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540-D	8.0	5 - 5000	100.0
03.	Total Dissolved Solids as TDS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540C	319.0	10-10000	-
04.	Biochemical Oxygen Demand as BOD 5 Days at 20°C	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5210 A+B	4.7	5-10000	30.0
05.	Chemical Oxygen Demand as COD	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5220 A+C	26.0	5-50000	250.0

**Statement of Conformity:** The above tested parameters confirm as per GSR-422 (E) limits for above tested parameters and the results are related to the sample tested.

**Note:** - BDL- Below Detection Limit.

Verified By

Technical Manager

Authorized By

Quality Manager

B-1/8,  
 Second Floor,  
 Sector-II, Aliganj,  
 Dist. Lucknow - 226 021



**NAME OF THE PLANT: SAGAR CEMENT**

**MONTH: SEPTEMBER 2025**

**DESCRIPTION OF WORK: DRINKING WATER QUALITY**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMATNO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECO/LAB/DW/006/337/08/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Drinking Water		
Sample Registration No.	006	Name of Location	Near Gate No-1 WTP
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	23.09.2025	Time of Sample Collection	-
Date of Sample Received	23.09.2025	Time of Sample Received	05:30 PM
Start Date of Analysis	25.09.2025	End Date of Analysis	30.09.2025
Laboratory Environmental Condition	Temperature: 27 ± 2 °C	Sample Quantity	As Per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/337/09/2025

Sl. No.	TESTS	Unit	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:2012(Reaff:2018)	
						Desirable	Permissible
1.	Colour	Hazen	APHA, 24 <sup>th</sup> Ed. 2023, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	-	APHA, 24 <sup>th</sup> Ed. 2023, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Turbidity as	NTU	APHA, 24 <sup>th</sup> Ed. 2023, 2130-A+B	BDL	1 - 100	1.0	5.0
4.	pH	-	APHA, 24 <sup>th</sup> Ed. 2023, 4500H+ A+B	6.90	2.0-12	6.5-8.5	No Relax.
5.	Total Suspended Solids as TSS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540-C	BDL	5 - 5000	-	-
6.	Total Dissolved Solids as TDS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2540-C	91	5 - 5000	500	2000
7.	Total Alkalinity	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2320 A+ B	22.0	5-1500	200	600
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 2340 A+C	34.0	5-1500	200.0	600.0
9.	Calcium as Ca	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3500 Ca A+B	12.0	5 - 1000	75.0	200.0
10.	Magnesium as Mg	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3500 Mg A+B	6.4	5-1000	30.0	100.0
11.	Sulfate as SO <sub>4</sub>	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500-SO <sub>4</sub> <sup>2-</sup> E	BDL	1.0 -250	200.0	400.0
12.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500-NO <sub>3</sub> <sup>-</sup> B	BDL	5.0 - 100	45.0	No Relax.
13.	Sodium	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3500 Na- A+B	BDL	1-100	-	-
14.	Potassium	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3500 K- A+B	BDL	1-100	-	-
15.	Chloride as Cl	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500 Cl A+B	14.0	5-1000	250.0	1000.0
16.	Fluorides as F	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500-C	0.08	0.05-10	1.0	1.5
17.	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500-Cr A+C	BDL	0.05-5	-	-
18.	Copper as Cu	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111 A+B	BDL	0.05-5	0.05	1.5
19.	Iron as Fe	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3500 Fe B	BDL	0.02-50	0.3	No Relax.
20.	Manganese as Mn	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111 A+B	BDL	0.1-5	0.10	0.30
21.	Arsenic as As	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3114 C	BDL	0.01-2	0.01	0.05
22.	Zinc as Zn	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111 A+B	BDL	0.02-50	5.0	15
23.	Total Chromium as Cr	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111A+B	BDL	0.05-20	0.05	No Relax.
24.	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5530 A+C	BDL	1-10	0.006	0.006
25.	Free Residual Chlorine	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500-Cl B	BDL	0.5-10	0.20	1.0
26.	Mercury as Hg	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3112 A+B	BDL	0.006-1	0.006	No Relax
27.	Lead as Pb	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111 A+B	BDL	0.01-1	0.01	No Relax
28.	Cadmium as Cd	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 3111 A+B	BDL	0.006-2	0.006	No Relax
29.	Boron as B	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 4500 B A+C	BDL	0.2-10	0.5	1.0
30.	Anionic detergent as MABS	mg/l	APHA, 24 <sup>th</sup> Ed. 2023, 5540 A+C	BDL	0.01-5	0.2	1.0
31.	E. Coli	Per 100 ml	IS-15185,2016 RA-2021	Absent	<1.0	Absent	Absent

**Statement of Conformity:** The above tested parameters confirm as per IS-10500-2012 (Reaff.-2018) limits for above tested parameters and the results are related to the sample tested.

**Note:** - BDL- Below Detection Limit.

Verified By

Technical Manager

Authorized By

Quality Manager



**NAME OF THE PLANT:**

**SAGAR CEMENT**

**MONTH:**

**SEPTEMBER  
2025**

**DESCRIPTION OF WORK:**

**STACK EMISSION**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/12

NAME & ADDRESS OF CUSTOMER	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AS/006/338/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Stack Emission		
Sample Registration No.	006	Name of Location	ST1 Cement Mill
Sampling Method	IS: 11255	Sample Collected By	EMPL Representative
Date of Sample Collection	23.09.2025	Time of Sample Collection	11.40 AM
Date of Sample Receipt	23.09.2025	Time of Sample Receipt	10.00 AM
Start Date of Analysis	25.09.2025	End Date of Analysis	27.09.2025
Weather Condition	Sunny	Sampling Duration	30.0 min
Environmental Condition	Temperature: 25±2°C	Sample ID Code	ECO/LAB/338/09/2025
	Humidity: 56%		
Instrument Name & Lab ID	Stack Kit (VSS-1) Envirotech		
	Flue Gas Analyzer		

Stack Details			
I) Above the Ground Level(m)	52.6	Ambient Temperature (°C)	28.0
Material of Stack	MS Plate	Stack Temperature (°C)	82.0
Stack Attached	Boiler	Cross Sectional Area of Stack	4.376
Shape of Stack	Circular	Velocity of Flue Gas (m/sec.)	12.13

Sl. No.	TEST PARAMETERS	Unit	PROTOCOL	Detection Range	RESULTS	Limit as per CPCB
1.	Particulate Matter (PM)	mg/Nm <sup>3</sup>	IS 11255: Part 1:1985	10-1000	14.41	30.0
2.	Quantity of Gas flow at Dry Condition	Nm <sup>3</sup> /hr	IS 11255: Part 3:1985	-	160408.92	-
3.	Moisture	%	IS 11255: Part 3:1985	-	0.40	-

**Statement of Conformity:** Analyzed parameters in above tested sample are within standard limit as per MOEF/CPCB Guidelines.

**Note:**

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

----End of Report----

Verified By

Technical Manager

Authorized By

Quality Manager



**NAME OF THE PLANT: SAGAR CEMENT**

**MONTH: SEPTEMBER 2025**

**DESCRIPTION OF WORK: SURFACE WATER QUALITY**



***ECOMEN MINING PVT. LTD.***

## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECO/LAB/SW/006/339/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Surface Water		
Sample Registration No.	006	Name of Location	SW1-Brahmani River upstream SW2- Brahmani River downstream
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	23.09.2025	Time of Sample Collection	-
Date of Sample Received	23.09.2025	Time of Sample Received	04:20 PM
Start Date of Analysis	25.09.2025	End Date of Analysis	30.09.2025
Laboratory Environmental Condition	Temperature: 27 ± 2 °C	Sample Quantity	As Per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/339/09/2025

S. No.	TESTS	Unit	PROTOCOL	SW1	SW2	INDIAN STANDARDS as IS-2296(C)
1.	Colour	Hazen	APHA,24th Ed.: 2023, 2120 B	35.0	30.0	300
2.	pH	-	APHA,24th Ed.: 2023, 4500H+A+B	7.40	7.32	6.5-8.5
3.	Total Suspended Solids as TSS	mg/l	APHA,24th Ed.: 2023, 2540D	30.0	32.0	-
4.	Total Dissolved Solids as TDS	mg/l	APHA,24th Ed.: 2023, 2540-C	78.0	82.0	1500
5.	Biochemical Oxygen Demand as BOD	mg/l	IS-3025 Part-44,1993	2.3	2.8	3.0
6.	Chemical Oxygen Demand as COD	mg/l	APHA,24th Ed.: 2023, 5220 A+C	20.0	22.0	-
7.	Oil & Grease as O&G	mg/l	APHA, 24 <sup>th</sup> Ed.: 20235520 A+D	BDL	BDL	0.1
8.	Dissolved Oxygen as DO	mg/l	APHA,24th Ed.: 2023, 4500 A+C	4.5	4.3	4
9.	Chloride as Cl	mg/l	APHA,24th Ed.: 2023, 4500 Cl A+B	14.0	14.0	600
10.	Sulphate as SO <sub>4</sub>	mg/l	APHA,24th Ed.: 2023, 4500-SO42- E	9.2	9.7	400
11.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA,24th Ed.: 2023, 4500-NO3 2- E	6.22	6.18	50
12.	Fluoride as F	mg/l	APHA,24th Ed.: 2023, 4500-C	0.24	0.24	1.5
13.	Iron as Fe	mg/l	APHA,24th Ed.: 2023, 3500 Fe B	0.14	0.16	50.0
14.	Arsenic as As	mg/l	APHA,24th Ed.: 2023, 3111 A+B	BDL	BDL	0.2
15.	Hexavalent Chromium as Cr <sup>6+</sup>	mg/l	APHA,24th Ed.: 2023, 3111 A+B	BDL	BDL	0.05
16.	Copper as Cu	mg/l	APHA,24th Ed.: 2023, 3111 A+B	BDL	BDL	1.5
17.	Zinc as Zn	mg/l	APHA,24th Ed.: 2023, 3111 A+B	0.16	0.16	15
18.	Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH	mg/l	APHA,24th Ed.: 2023, 5530 A+C	BDL	BDL	0.006
19.	Anionic Detergent as MBAS	mg/l	APHA,24th Ed.: 2023, 5540 A+C	BDL	BDL	1.0
20.	Selenium as Se	mg/l	APHA,24th Ed.: 2023, 3500 Se A+C	BDL	BDL	0.05
21.	Cyanide as CN	mg/l	APHA,24th Ed.: 2023, 4500 ,CN A+D	BDL	BDL	0.05
22.	Lead as Pb	mg/l	APHA,24th Ed.: 2023, 3111 A+B	BDL	BDL	0.1
23.	Cadmium as Cd	mg/l	APHA,24th Ed.: 2023, 3111 A+B	BDL	BDL	0.01
24.	Total coliform	MPN /100 ml	APHA,24th Ed.: 2023, 9221 A+B	120.0	115.0	5000

**Statement of Conformity:** The above tested parameters confirm as per IS-2296 Class-C limits for above tested parameters and the results are related to the sample tested.

**Note:** - BDL- Below Detection Limit.

Verified By

Technical Manager

Authorized By

Quality Manager



**NAME OF THE PLANT:**

**SAGAR CEMENT**

**MONTH:**

**SEPTEMBER 2025**

**DESCRIPTION OF WORK:**

**FUGITIVE EMISSION**



***ECOMEN MINING PVT. LTD.***

**TEST REPORT**

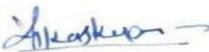
FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/0136/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Suspended Particulate Matter		
Sample Registration No.	006	Name of Location	Near Cement Mill Area
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	04.09.2025 - 05.09.2025	Time of Sample Collection	-
Start Date of Analysis	06.09.2025	End Date of Analysis	09.09.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/0136/09/2025
	Humidity: 62%		

Parameters	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	
PROTOCOL	IS:5182(Part-4)	
Limits of Detection	5-1000	
Limit as per National Ambient Air Quality Standards	-	
Sl. No.	Sampling Date	Results
1.	09.09.2025	415.9

Note- Stander As per the CTO Norms of the plant.

Verified By

  
 Technical Manager

Authorized By

  
 Quality Manager  


**TEST REPORT**

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/006/0137/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Suspended Particulate Matter		
Sample Registration No.	006	Name of Location	Near by RMH
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	11.09.2025 - 12.09.2025	Time of Sample Collection	-
Start Date of Analysis	13.09.2025	End Date of Analysis	15.09.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/0137/09/2025
	Humidity: 62%		

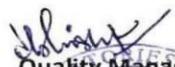
Parameters		Suspended Particulate Matter (SPM) µg/m <sup>3</sup>
PROTOCOL		IS:5182(Part-4)
Limits of Detection		5-1000
Limit as per National Ambient Air Quality Standards		-
Sl. No.	Sampling Date	Results
1.	15.09.2025	375.4

Note- Stander As per the CTO Norms of the plant.

Verified By

  
 Technical Manager

Authorized By

  
 Quality Manager  


## TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/S Sagar Cement Limited, Kalinga Nagar industrial complex, Danagadi, Jajpur, Odisha.	Test Report No.	ECOLAB/AA/009/0138/09/2025
		Issue Date of Test Report	02.10.2025
Type of Sample	Suspended Particulate Matter		
Sample Registration No.	006	Name of Location	Near by flyash handling parking plant
Sampling Method	As per Reference Method	Sample Collected By	Ecomen Mining Team
Date of Sample Collection	24.09.2025 - 25.09.2025	Time of Sample Collection	-
Start Date of Analysis	026.09.2025	End Date of Analysis	23.09.2025
Weather Condition	Sunny	Sampling Duration	24 Hrs.
Laboratory Environmental Condition	Temperature: 25 ±2 °C	Sample ID Code	ECO/LAB/0138/09/2025
	Humidity: 62%		

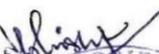
Parameters		Suspended Particulate Matter (SPM) µg/m <sup>3</sup>
PROTOCOL		IS:5182(Part-4)
Limits of Detection		5-1000
Limit as per National Ambient Air Quality Standards		-
Sl. No.	Sampling Date	Results
1.	23.09.2025	394.6

Note- Stander As per the CTO Norms of the plant.

Verified By

  
Technical Manager

Authorized By

  
Quality Manager  
