



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FM53A

ULR - TC681622000002670F  
REPORT NO: CPL/R/AAQ/NOV-22/1

REPORT ISSUE DATE: 02.11.2022

SAMPLE DRAWN BY CLEENVIRO PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Sampling Method : IS: 5182 (Part - 2) & (Part - 6), EN12341  
 Location of Monitoring : **Colony Area of SCL**  
 Monitoring Station Code : A1

Environmental Conditions During Monitoring	Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	------------------	------------------	------------	-------------

Sample ID No	CPL/AAQ/OCT-22/88	CPL/AAQ/OCT-22/82	CPL/AAQ/OCT-22/167	CPL/AAQ/OCT-22/197
Date of Sampling	03.10.2022 - 04.10.2022	06.10.2022 - 07.10.2022	10.10.2022 - 11.10.2022	15.10.2022 - 16.10.2022
Sampling Period	1820 - 1934 Hrs	1810 - 1825 Hrs	1745 - 1758 Hrs	1838 - 1930 Hrs
Time of Sampling	25.14 Hrs	24.15 Hrs	24.13 Hrs	24.52 Hrs
Sample Received on	04.10.2022	07.10.2022	11.10.2022	16.10.2022
Date of Test	05.10.2022	08.10.2022	12.10.2022	17.10.2022

Sample ID No	CPL/AAQ/OCT-22/251	CPL/AAQ/OCT-22/266	CPL/AAQ/OCT-22/339	CPL/AAQ/OCT-22/363
Date of Sampling	17.10.2022 - 18.10.2022	20.10.2022 - 21.10.2022	25.10.2022 - 26.10.2022	27.10.2022 - 28.10.2022
Sampling Period	1820 - 1828 Hrs	1810 - 1800 Hrs	1830 - 1815 Hrs	1750 - 1800 Hrs
Time of Sampling	24.08 Hrs	23.50 Hrs	23.45 Hrs	24.10 Hrs
Sample Received on	18.10.2022	21.10.2022	26.10.2022	28.10.2022
Date of Test	19.10.2022	22.10.2022	27.10.2022	29.10.2022

Sl No	Sample ID	Parameters			
		PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>
Units		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis		CPL/SOP/16/PM2.5, Issued No: 04, dt: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS-5182 (Part - 2) 2001, SA 2017	IS-5182 (Part - 6) 2005, SA 2017
1.	CPL/AAQ/OCT-22/88	23	52	05	16
2.	CPL/AAQ/OCT-22/82	14	52	12	32
3.	CPL/AAQ/OCT-22/167	07	22	09	22
4.	CPL/AAQ/OCT-22/197	27	60	05	14
5.	CPL/AAQ/OCT-22/251	20	56	10	23
6.	CPL/AAQ/OCT-22/266	13	45	06	18
7.	CPL/AAQ/OCT-22/339	24	57	07	23
8.	CPL/AAQ/OCT-22/363	24	59	04	14
National Ambient Air Quality Standards, CPCB Notification New Delhi, 13 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area		60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)

P. Saseni  
Test Done By

Verified By



Authorized Signatory  
Subhanga Praharaj  
Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*  
Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FR07

REPORT NO: CPL/R/AAQ/NOV-22/1N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Location of Monitoring : **Colony Area of SCL**  
 Monitoring Station Code : **A1**

Environmental Conditions During Monitoring : Min Temp.:15.5°C | Max Temp.:32.6°C | Min RH:33% | Max RH:100%

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
			Electrochemical Sensor
Method of Analysis			
1	04.10.2022	1510 - 1610 Hrs	< 0.1
2	07.10.2022	0800 - 0900 Hrs	< 0.1
3	11.10.2022	0915 - 1015 Hrs	< 0.1
4	16.10.2022	1100 - 1200 Hrs	< 0.1
5	18.10.2022	1000 - 1100 Hrs	< 0.1
6	21.10.2022	1500 - 1600 Hrs	< 0.1
7	26.10.2022	0930 - 1030 Hrs	< 0.1
8	28.10.2022	0930 - 1030 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 15 <sup>th</sup> November 2009			04 (1 Hour Average)

*P. Sareni*  
Test Done By

*[Signature]*  
Verified By



*[Signature]*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director

\*\*\*END OF TEST REPORT\*\*\*

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tel: Fax: 0661 - 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PM03A

ULR - TC681622000002671F  
REPORT NO: CPL/IAAQ/NOV-22/2

REPORT ISSUE DATE: 02.11.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Sampling Method : IS: 5182  
 Location of Monitoring : **Near Plant Main Gate**  
 Monitoring Station Code : A2

Environmental Conditions During Monitoring	Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	------------------	------------------	------------	-------------

Sample ID No	CPL/AAQ/OCT-22/69	CPL/AAQ/OCT-22/83	CPL/AAQ/OCT-22/168	CPL/AAQ/OCT-22/196
Date of Sampling	03.10.2022 - 04.10.2022	06.10.2022 - 07.10.2022	10.10.2022 - 11.10.2022	15.10.2022 - 16.10.2022
Sampling Period	1812 - 1922 Hrs	1758 - 1808 Hrs	1802 - 1820 Hrs	1832 - 1920 Hrs
Time of Sampling	24.10 Hrs	23.52 Hrs	24.18 Hrs	24.50 Hrs
Sample Received on	04.10.2022	07.10.2022	11.10.2022	16.10.2022
Date of Test	05.10.2022	08.10.2022	12.10.2022	17.10.2022

Sample ID No	CPL/AAQ/OCT-22/250	CPL/AAQ/OCT-22/267	CPL/AAQ/OCT-22/340	CPL/AAQ/OCT-22/364
Date of Sampling	17.10.2022 - 18.10.2022	20.10.2022 - 21.10.2022	25.10.2022 - 26.10.2022	27.10.2022 - 28.10.2022
Sampling Period	1805 - 1817 Hrs	1810 - 1800 Hrs	1750 - 1750 Hrs	1720 - 1745 Hrs
Time of Sampling	24.12 Hrs	23.50 Hrs	24.00 Hrs	24.25 Hrs
Sample Received on	18.10.2022	21.10.2022	26.10.2022	28.10.2022
Date of Test	19.10.2022	22.10.2022	27.10.2022	29.10.2022

Sl. No	Sample ID	Parameter			
		PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>
	Units				
	Method of Analysis	CPL/SOP/PM2.5, Issue No: 04, dtd. 23.12.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017
1.	CPL/AAQ/OCT-22/69	14	40	04	18
2.	CPL/AAQ/OCT-22/83	08	25	12	28
3.	CPL/AAQ/OCT-22/168	22	52	06	19
4.	CPL/AAQ/OCT-22/196	32	73	04	12
5.	CPL/AAQ/OCT-22/250	24	68	10	33
6.	CPL/AAQ/OCT-22/267	20	58	05	12
7.	CPL/AAQ/OCT-22/340	26	68	05	17
8.	CPL/AAQ/OCT-22/364	22	57	04	12
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area		60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)

*P. Sarseni*  
Test Done By

*[Signature]*  
Verified By



*[Signature]*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2473746, email: cleenviron@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPLFM57

REPORT NO: CPL/IR/AAQ/NOV-22/2N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Location of Monitoring : **Near Plant Main Gate**  
 Monitoring Station Code : **A2**

Environmental Conditions During Monitoring	:	Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	---	------------------	------------------	------------	-------------

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
			Electrochemical Sensor
Method of Analysis			
1	04.10.2022	1550 – 1650 Hrs	< 0.1
2	07.10.2022	0900 – 1000 Hrs	< 0.1
3	11.10.2022	0940 – 1040 Hrs	< 0.1
4	16.10.2022	1300 – 1230 Hrs	< 0.1
5	18.10.2022	1100 – 1200 Hrs	< 0.1
6	21.10.2022	1300 – 1400 Hrs	< 0.1
7	26.10.2022	0930 – 1030 Hrs	< 0.1
8	28.10.2022	1030 – 1130 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 13 <sup>th</sup> November 2009			04 (1 Hour Average)

*P. Saseeni*  
 Test Done By



*Subhanga Prabhara*  
 Authorized Signatory  
 Subhanga Prabhara  
 Managing Director

\*\*\*\*\*END OF TEST REPORT\*\*\*\*\*

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PM37A

ULR - TC681622000002672F

REPORT NO: CPL/R/AAQ/NOV-22/3

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Sampling Method : IS: 5182 (Part - 2) & (Part - 6), EN12341  
 Location of Monitoring : **Near TG Building**  
 Monitoring Station Code : A3

Environmental Conditions During Monitoring	:	Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	---	------------------	------------------	------------	-------------

Sample ID No	:	CPL/AAQ/OCT-22/70	CPL/AAQ/OCT-22/84	CPL/AAQ/OCT-22/170	CPL/AAQ/OCT-22/199
Date of Sampling	:	03.10.2022 - 04.10.2022	06.10.2022 - 07.10.2022	10.10.2022 - 11.10.2022	15.10.2022 - 16.10.2022
Sampling Period	:	1055 - 1059 Hrs	0910 - 0925 Hrs	0911 - 0916 Hrs	1002 - 1002 Hrs
Time of Sampling	:	24.04 Hrs	24.15 Hrs	24.05 Hrs	24.00 Hrs
Sample Received on	:	04.10.2022	07.10.2022	11.10.2022	16.10.2022
Date of Test	:	05.10.2022	08.10.2022	12.10.2022	17.10.2022

Sample ID No	:	CPL/AAQ/OCT-22/253	CPL/AAQ/OCT-22/269	CPL/AAQ/OCT-22/341	CPL/AAQ/OCT-22/361
Date of Sampling	:	17.10.2022 - 18.10.2022	20.10.2022 - 21.10.2022	25.10.2022 - 26.10.2022	27.10.2022 - 28.10.2022
Sampling Period	:	0840 - 0854 Hrs	0914 - 0920 Hrs	0930 - 0920 Hrs	0830 - 0820 Hrs
Time of Sampling	:	24.14 Hrs	24.06 Hrs	23.50 Hrs	23.50 Hrs
Sample Received on	:	18.10.2022	21.10.2022	26.10.2022	28.10.2022
Date of Test	:	19.10.2022	22.10.2022	27.10.2022	29.10.2022

Sl No	Sample ID	Parameters			
		PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>
Units		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis		CPL/IS04081/PM2.5, Issue No: 04, dtd: 23.10.2017	IS 5182, 1988 Low Volume Sampler	IS-5182 (Part - 2) 2001, RA 2017	IS- 5182 (Part - 6) 2005, RA 2017
1.	CPL/AAQ/OCT-22/70	15	50	11	35
2.	CPL/AAQ/OCT-22/84	22	63	12	32
3.	CPL/AAQ/OCT-22/170	13	41	04	21
4.	CPL/AAQ/OCT-22/199	21	58	12	30
5.	CPL/AAQ/OCT-22/253	26	68	18	42
6.	CPL/AAQ/OCT-22/269	28	70	09	24
7.	CPL/AAQ/OCT-22/341	23	61	05	23
8.	CPL/AAQ/OCT-22/361	24	62	08	24
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area		80 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)

P. Saseeni  
Test Done By



Authorized Signatory  
Subhanga Praharaj  
Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PM57

REPORT NO: CPL/IR/AAQ/NOV-22/3N

SAMPLE DRAWN BY CLEENVIIRON PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Location of Monitoring : **Near TG Building**  
 Monitoring Station Code : **A3**

Environmental Conditions During Monitoring	:	Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	---	------------------	------------------	------------	-------------

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	03.10.2022	1530 – 1630 Hrs	< 0.1
2	06.10.2022	1000 – 1100 Hrs	< 0.1
3	10.10.2022	0840 – 0940 Hrs	< 0.1
4	15.10.2022	1200 – 1300 Hrs	< 0.1
5	17.10.2022	1100 – 1200 Hrs	< 0.1
6	20.10.2022	1300 – 1400 Hrs	< 0.1
7	25.10.2022	0930 – 1030 Hrs	< 0.1
8	27.10.2022	1200 – 1300 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 <sup>th</sup> November 2009			04 (1 Hour Average)

*P. Saseeni*  
 Test Done By

*M. J. Mohapatra*  
 Verified By



*S. Subhanga Praharaj*  
 Authorized Signatory  
 Subhanga Praharaj  
 Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
 D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
 D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PM57A

ULR - TC681622000002673F

REPORT NO: CPL/IR/AAQ/NOV-22/4

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Sampling Method : IS: 5182 (Part - 2) & (Part - 6), EN12341  
 Location of Monitoring : **Near Clinker Bulk Loading Area**  
 Monitoring Station Code : A4

Environmental Conditions During Monitoring : Min Temp.:15.5°C | Max Temp.:32.6°C | Min RH:33% | Max RH:100%

Sample ID No	CPL/AAQ/OCT-22/71	CPL/AAQ/OCT-22/85	CPL/AAQ/OCT-22/169	CPL/AAQ/OCT-22/198
Date of Sampling	03.10.2022 - 04.10.2022	06.10.2022 - 07.10.2022	10.10.2022 - 11.10.2022	15.10.2022 - 16.10.2022
Sampling Period	1040 - 1048 Hrs	0900 - 0930 Hrs	0902 - 0910 Hrs	1015 - 1011 Hrs
Time of Sampling	24.08 Hrs	24.30 Hrs	24.08 Hrs	23.56 Hrs
Sample Received on	04.10.2022	07.10.2022	11.10.2022	16.10.2022
Date of Test	05.10.2022	08.10.2022	12.10.2022	17.10.2022

Sample ID No	CPL/AAQ/OCT-22/252	CPL/AAQ/OCT-22/268	CPL/AAQ/OCT-22/342	CPL/AAQ/OCT-22/362
Date of Sampling	17.10.2022 - 18.10.2022	20.10.2022 - 21.10.2022	25.10.2022 - 26.10.2022	27.10.2022 - 28.10.2022
Sampling Period	0850 - 0910 Hrs	0902 - 0905 Hrs	1000 - 0946 Hrs	0840 - 0850 Hrs
Time of Sampling	24.20 Hrs	24.03 Hrs	23.46 Hrs	24.10 Hrs
Sample Received on	18.10.2022	21.10.2022	26.10.2022	28.10.2022
Date of Test	19.10.2022	22.10.2022	27.10.2022	29.10.2022

Sl No	Sample ID	Parameters			
		PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>
Units		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Method of Analysis		CPL/SO <sub>2</sub> /PM <sub>2.5</sub> , Issue No: 04, dt: 23.10.2017	IS: 5241, 1990 Low Volume Sampler	IS: 5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017
1.	CPL/AAQ/OCT-22/71	24	70	04	14
2.	CPL/AAQ/OCT-22/85	23	59	06	19
3.	CPL/AAQ/OCT-22/169	27	70	05	23
4.	CPL/AAQ/OCT-22/198	25	68	05	14
5.	CPL/AAQ/OCT-22/252	26	74	08	37
6.	CPL/AAQ/OCT-22/268	19	51	09	27
7.	CPL/AAQ/OCT-22/342	22	58	10	30
8.	CPL/AAQ/OCT-22/362	28	70	08	17
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 <sup>th</sup> November, 2009 for Industrial, Residential, Rural & Other Area		60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)

*P. Sateni*  
Test Done By



*Subhanga Prathara*  
Authorized Signatory  
Subhanga Prathara  
Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*  
Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475745, email: cleenviros@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/MS7

REPORT NO: CPL/RAAQ/NOV-22/4N

SAMPLE DRAWN BY CLEENVIRO PRIVATE LIMITED

REPORT ISSUE DATE: 02.11.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Location of Monitoring : **Near Clinker Bulk Loading Area**  
 Monitoring Station Code : **A4**

Environmental Conditions During Monitoring	: Min Temp.:15.5°C	Max Temp.:32.6°C	Min RH:33%	Max RH:100%
--	--------------------	------------------	------------	-------------

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	03.10.2022	1330 – 1430 Hrs	< 0.1
2	06.10.2022	1100 – 1200 Hrs	< 0.1
3	10.10.2022	0910 – 1010 Hrs	< 0.1
4	15.10.2022	1200 – 1300 Hrs	< 0.1
5	17.10.2022	1105 – 1205 Hrs	< 0.1
6	20.10.2022	1300 – 1400 Hrs	< 0.1
7	25.10.2022	0930 – 1030 Hrs	< 0.1
8	27.10.2022	1100 – 1200 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 <sup>th</sup> November 2009			04 (1 Hour Average)

*P. Saseeni*  
 Test Done By

*[Signature]*  
 Verified By



*[Signature]*  
 Authorized Signatory  
 Subhanga Praharaj  
 Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.





# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## TEST REPORT FOR STACK EMISSION MONITORING

FORMAT NO: CPL/PMSE

REPORT NO: CPL/RISE/OCT-22/74N

REPORT ISSUE DATE: 31.10.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Sampling Method : IS 11255 (Part - 1): 1985, RA 2019

Sample ID No	:	CPL/SE/OCT-22/56
Location of Sampling	:	STACK - 1
Date of Sampling	:	26.10.2022
Time of Sampling	:	12:15 Hrs
Duration of Sampling	:	37 min
Sample Received on	:	26.10.2022
Date of Test	:	26.10.2022 - 27.10.2022

<b>A. General Information About the Stack</b>		:
1. Stack Connected to	:	DG SET - 1
2. Emission Due to	:	Diesel
3. Material of Construction of Stack	:	Steel
4. Shape of Stack	:	Circular
5. Whether Stack is provide with Permanent Platform & Ladder	:	No
6. Capacity	:	170 KVA
7. Running Load	:	Idle
<b>B. Physical Characteristics of Stack</b>		:
1. Height of Stack from Ground Level	:	4.5 m
2. Height of Sampling Port from Ground Level	:	3.5 m
3. Diameter of Stack at sampling point	:	0.15 m
<b>C. PARAMETERS ANALYSED</b>	<b>METHODS OF ANALYSIS</b>	<b>RESULTS OBTAINED</b>
1. Ambient Temperature (°C)	IS 11255 Part - 3, 1985 (RA 2018)	33
2. Temperature of Gas Emission (°C)	IS 11255 Part - 3, 1985 (RA 2018)	85
3. Barometric Pressure (mm Hg)	IS 11255 Part - 3, 1985 (RA 2018)	746
4. Velocity of Gas Emitted (m/sec)	IS 11255 Part - 3, 1985 (RA 2018)	7.77
5. Quantity of Gas Emitted (Nm <sup>3</sup> /hr)	IS 11255 Part - 3, 1985 (RA 2018)	713.39
6. Particulate Matter Concentration (mg/Nm <sup>3</sup> )	IS 11255 Part - 1, 1985 (RA 2019)	95
7. Sulphur Dioxide (SO <sub>2</sub> ) Concentration (mg/Nm <sup>3</sup> )	IS 11255 Part - 2, 1985 (RA 2014)	37.27
8. Nitrogen Dioxide (NO <sub>2</sub> ) Concentration (mg/Nm <sup>3</sup> )	IS 11255 Part - 7, 2005 (RA 2017)	61.8
9. Carbon Monoxide (CO) Concentration (mg/Nm <sup>3</sup> )	Flue Gas Analyser	68.4
10. Carbon Dioxide (CO <sub>2</sub> ) in %	Flue Gas Analyser	11.2
<b>D. Pollution Control Device Installed</b>	Not installed	

*P. Sasaki*  
Test Done By

*[Signature]*  
Verified By



*[Signature]*  
Authorized Signatory  
Subhanga Praharaj  
Managing Director

\*\*\*\*END OF TEST REPORT\*\*\*\*  
Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

## GROUND WATER LEVEL MONITORING REPORT

PROJECT SITE: **CEMENT PLANT**

CLIENT: M/s SHIVA CEMENT LIMITED, VIII: TELEGHANA, At: BRINGATOLI, KUTRA, DIST: SUNDARGARH: 770018, ODISHA

Ground Water Levels are measured from existing Wells on 15<sup>th</sup> October 2022 for the month from the following mentioned points and data thus recorded are as follows:

Sl No	Location	MP to GL (m)	TDBMP (m)	WLBGL (m)	GL (m)	WLAMSL (m)
1	Bore Well Back Side of Cement Mill Within Plant	0.15	-	6.38	-	-
2	Bore Well Back Side of Coal Yard Within Plant 22° 13' 46.4" N – 84° 25' 02.5" E	0.50	-	12.01	-	-
3	Bore Well Back Side of Kiln Within Plant 22° 16' 31.0" N – 84° 27' 08.6" E	0.10	-	13.7	242.0	228.3

MP : Measuring Point  
GL : Ground Level  
TDBMP : Total Depth Below Measuring Point  
WLBGL : Water Level Below Ground Level  
WLAMSL : Water Level Above Mean Sea Level

  
Authorized Signatory  
For Cleenviron Private Limited



This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
D/318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 – 2475746, email: cleenviron@gmail.com



# Cleenviron Private Limited

Consultant and Engineers in Environmental Pollution Control & Monitoring with NABL Accredited Laboratory.



## TEST REPORT FOR NOISE LEVEL MONITORING

FORMAT NO: CPL/MS2

ULR - TC68162200002678F

REPORT NO: CPL/R/N/NOV-22/1

REPORT ISSUE DATE: 02.11.2022

MONITORING DONE BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**  
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha  
 Instrument Used : Sound Level Meter (LUTRON: SL 4001)

Station No	N1	N2	N3
Sample ID	CPL/N/OCT-22/58	CPL/N/OCT-22/55	CPL/N/OCT-22/56
Date of Monitoring	25.10.2022	06.10.2022	08.10.2022
Location of Monitoring	COLONY AREA	NEAR MAIN GATE	NEAR TG BUILDING

SL NO	STATION NO	L <sub>eq</sub> DAY TIME (6:00AM - 10:00PM) dB(A)	L <sub>eq</sub> NIGHT TIME (10:00PM - 6:00AM) dB(A)	L <sub>max</sub> dB(A)	L <sub>min</sub> dB(A)
1.	N1	57.2	44.9	64.9	34.8
2.	N2	67.3	46.6	74.3	40.3
3.	N3	77.6	48.3	85.7	42.1

Station No	N4	N5
Sample ID	CPL/N/OCT-22/57	CPL/N/OCT-22/59
Date of Monitoring	10.10.2022	27.10.2022
Location of Monitoring	NEAR CLINKER BULK LOADING AREA	VILLAGE TELEGHANA

SL NO	STATION NO	L <sub>eq</sub> DAY TIME (6:00AM - 10:00PM) dB(A)	L <sub>eq</sub> NIGHT TIME (10:00PM - 6:00AM) dB(A)	L <sub>max</sub> dB(A)	L <sub>min</sub> dB(A)
3.	N4	73.5	47.0	81.2	41.2
4.	N5	55.8	44.1	63.7	34.2

Test Done By



Authorized Signatory  
 Subhanga Praharaj  
 Managing Director

### AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE AS PER CPCB

Area Code	Category of Area/Zone	Limits in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

\*\*\*END OF TEST REPORT\*\*\*

Page 1 of 1

This report refers to the values obtained at the time of testing and results related to the item tested. This report may not be reproduced in part or full without written permission of the Company.

Registered Office:  
 D/318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:  
 D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 0661 - 2475746, email: cleenviron@gmail.com