



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/1857

ULR - TC68162200002486F

REPORT NO: CPL/IAAQ/OCT-22/39

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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 : **Colony Area of SCL**
 Monitoring Station Code : A1

Environmental Conditions During Monitoring	: Min Temp.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sample ID No	: CPL/AAQ/SEPT-22/105	CPL/AAQ/SEPT-22/118	CPL/AAQ/SEPT-22/147	CPL/AAQ/SEPT-22/163
Date of Sampling	: 07.09.2022 - 08.09.2022	08.09.2022 - 09.09.2022	11.09.2022 - 12.09.2022	14.09.2022 - 15.09.2022
Sampling Period	: 1510 - 1359 Hrs	1800 - 1820 Hrs	1820 - 1718 Hrs	1730 - 1741 Hrs
Time of Sampling	: 22.49 Hrs	24.20 Hrs	22.58 Hrs	24.11 Hrs
Sample Received on	: 08.09.2022	09.09.2022	12.09.2022	15.09.2022
Date of Test	: 09.09.2022	10.09.2022	13.09.2022	16.09.2022

Sample ID No	: CPL/AAQ/SEPT-22/182	CPL/AAQ/SEPT-22/293	CPL/AAQ/SEPT-22/346
Date of Sampling	: 19.09.2022 - 20.09.2022	21.09.2022 - 22.09.2022	26.09.2022 - 27.09.2022
Sampling Period	: 1727 - 1715 Hrs	1810 - 1800 Hrs	1810 - 1810 Hrs
Time of Sampling	: 23.52 Hrs	23.50 Hrs	24.00 Hrs
Sample Received on	: 20.09.2022	22.09.2022	27.09.2022
Date of Test	: 21.09.2022	23.09.2022	28.09.2022

Sl No	Sample ID	Parameters			
		PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Units		µg/m ³	µg/m ³	µg/m ³	µg/m ³
Method of Analysis		CPL/SOP/01/PM2.5, Issue No: 04, dt: 23.10.2017	EN 12341, 1995 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2011	IS: 5182 (Part - 6) 2006, RA 2011
1.	CPL/AAQ/SEPT-22/105	13	42	05	20
2.	CPL/AAQ/SEPT-22/118	16	49	06	20
3.	CPL/AAQ/SEPT-22/147	10	29	< 3	10
4.	CPL/AAQ/SEPT-22/163	17	46	03	10
5.	CPL/AAQ/SEPT-22/182	14	40	04	13
6.	CPL/AAQ/SEPT-22/293	22	53	04	15
7.	CPL/AAQ/SEPT-22/346	17	48	11	26
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 th 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. Sasoni
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

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

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Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/19857

REPORT NO: CPL/R/AAQ/OCT-22/39N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	07.09.2022	1510 – 1610 Hrs	< 0.1
2	09.09.2022	0800 – 0900 Hrs	< 0.1
3	12.09.2022	0915 – 1015 Hrs	< 0.1
4	15.09.2022	1100 – 1200 Hrs	< 0.1
5	19.09.2022	1000 – 1100 Hrs	< 0.1
6	21.09.2022	1500 – 1600 Hrs	< 0.1
7	27.09.2022	0930 – 1030 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 16 th November 2009			04 (1 Hour Average)

P. Saseeni
Test Done By

[Signature]
Verified By

[Signature]
Authorized Signatory
Subhanga Prabhara
Managing Director



END OF TEST REPORT

Page 1 of 1

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Branch Office & Laboratory:
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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/MS3

ULR - TC68162200002487F

REPORT NO: CPL/RIAQ/OCT-22/40

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 05.10.2022

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 Plant Main Gate**
 Monitoring Station Code : A2

Environmental Conditions During Monitoring	Min Temp.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sample ID No	CPL/AAQ/SEPT-22/104	CPL/AAQ/SEPT-22/117	CPL/AAQ/SEPT-22/148	CPL/AAQ/SEPT-22/164
Date of Sampling	07.09.2022 - 08.09.2022	08.09.2022 - 09.09.2022	11.09.2022 - 12.09.2022	14.09.2022 - 15.09.2022
Sampling Period	1530 - 1322 Hrs	1745 - 1714 Hrs	1805 - 1715 Hrs	1715 - 1520 Hrs
Time of Sampling	21.52 Hrs	23.31 Hrs	23.10 Hrs	22.05 Hrs
Sample Received on	08.09.2022	09.09.2022	12.09.2022	15.09.2022
Date of Test	09.09.2022	10.09.2022	13.09.2022	16.09.2022

Sample ID No	CPL/AAQ/SEPT-22/181	CPL/AAQ/SEPT-22/292	CPL/AAQ/SEPT-22/345
Date of Sampling	19.09.2022 - 20.09.2022	21.09.2022 - 22.09.2022	26.09.2022 - 27.09.2022
Sampling Period	1718 - 1708 Hrs	1755 - 1725 Hrs	1750 - 1740 Hrs
Time of Sampling	23.50 Hrs	23.30 Hrs	23.50 Hrs
Sample Received on	20.09.2022	22.09.2022	27.09.2022
Date of Test	21.09.2022	23.09.2022	28.09.2022

Sl No	Sample ID	Parameters			
		PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Units		µg/m ³	µg/m ³	µg/m ³	µg/m ³
Method of Analysis		CPLISOP/SPM2.5, Issue No: 04, dtc: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS 5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2001, RA 2017
1.	CPL/AAQ/SEPT-22/104	15	43	06	17
2.	CPL/AAQ/SEPT-22/117	09	25	05	15
3.	CPL/AAQ/SEPT-22/148	13	47	03	12
4.	CPL/AAQ/SEPT-22/164	20	59	03	16
5.	CPL/AAQ/SEPT-22/181	23	60	04	10
6.	CPL/AAQ/SEPT-22/292	08	23	04	10
7.	CPL/AAQ/SEPT-22/345	26	55	09	33
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 th 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. Sareni
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

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Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMS/1

REPORT NO: CPL/R/AAQ/OCT-22/40N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	07.09.2022	1550 – 1650 Hrs	< 0.1
2	09.09.2022	0900 – 1000 Hrs	< 0.1
3	12.09.2022	0940 – 1040 Hrs	< 0.1
4	15.09.2022	1300 – 1230 Hrs	< 0.1
5	19.09.2022	1100 – 1200 Hrs	< 0.1
6	21.09.2022	1300 – 1400 Hrs	< 0.1
7	27.09.2022	0930 – 1030 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 th 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****

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TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PMST

ULR - TC681622000002488F

REPORT NO: CPL/IAAQ/OCT-22/41

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sample ID No	:	CPL/AAQ/SEPT-22/102	CPL/AAQ/SEPT-22/115	CPL/AAQ/SEPT-22/146	CPL/AAQ/SEPT-22/166
Date of Sampling	:	07.09.2022 - 08.09.2022	08.09.2022 - 09.09.2022	11.09.2022 - 12.09.2022	15.09.2022 - 16.09.2022
Sampling Period	:	0805 - 0630 Hrs	0800 - 0823 Hrs	0900 - 0505 Hrs	0800 - 0705 Hrs
Time of Sampling	:	22.25 Hrs	24.23 Hrs	20.05 Hrs	22.05 Hrs
Sample Received on	:	08.09.2022	09.09.2022	12.09.2022	16.09.2022
Date of Test	:	09.09.2022	10.09.2022	13.09.2022	17.09.2022

Sample ID No	:	CPL/AAQ/SEPT-22/179	CPL/AAQ/SEPT-22/290	CPL/AAQ/SEPT-22/343
Date of Sampling	:	18.09.2022 - 19.09.2022	20.09.2022 - 21.09.2022	26.09.2022 - 27.09.2022
Sampling Period	:	0904 - 0606 Hrs	0830 - 0800 Hrs	0900 - 0845 Hrs
Time of Sampling	:	21.02 Hrs	23.30 Hrs	23.45 Hrs
Sample Received on	:	19.09.2022	21.09.2022	27.09.2022
Date of Test	:	09.09.2022	22.09.2022	28.09.2022

Sl. No.	Sample ID	Parameters			
		PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Units		µg/m ³	µg/m ³	µg/m ³	µg/m ³
Method of Analysis		CPL/ISOP/1319/25, Issue No: 04, dt: 23.10.2017	IS 12341, 1998 Low Volume Sampler	IS 5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2004, RA 2017
1.	CPL/AAQ/SEPT-22/102	22	63	05	18
2.	CPL/AAQ/SEPT-22/115	15	51	08	27
3.	CPL/AAQ/SEPT-22/146	13	41	03	10
4.	CPL/AAQ/SEPT-22/166	12	38	05	18
5.	CPL/AAQ/SEPT-22/179	15	50	06	16
6.	CPL/AAQ/SEPT-22/290	15	56	04	14
7.	CPL/AAQ/SEPT-22/343	28	64	09	31
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 th 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. Sani
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

****END OF TEST REPORT****
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Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMS/

REPORT NO: CPL/R/AAQ/OCT-22/41N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sl No.	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	07.09.2022	1530 – 1630 Hrs	< 0.1
2	09.09.2022	1000 – 1100 Hrs	< 0.1
3	12.09.2022	0840 – 0940 Hrs	< 0.1
4	16.09.2022	1200 – 1300 Hrs	< 0.1
5	19.09.2022	1100 – 1200 Hrs	< 0.1
6	21.09.2022	1300 – 1400 Hrs	< 0.1
7	27.09.2022	0930 – 1030 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 th November 2009			04 (1 Hour Average)

P. Sarani
 Test Done By

[Signature]
 Verified By



[Signature]
 Authorized Signatory
 Subhanga Prahara
 Managing Director

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

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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/PM3

ULR - TC68162200002489F

REPORT NO: CPL/IAAQ/OCT-22/42

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
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Sample ID No	: CPL/AAQ/SEPT-22/103	CPL/AAQ/SEPT-22/116	CPL/AAQ/SEPT-22/145	CPL/AAQ/SEPT-22/165
Date of Sampling	: 07.09.2022 - 08.09.2022	08.09.2022 - 09.09.2022	11.09.2022 - 12.09.2022	15.09.2022 - 16.09.2022
Sampling Period	: 0812 - 0714 Hrs	0807 - 0716 Hrs	0910 - 0815 Hrs	0812 - 0715 Hrs
Time of Sampling	: 23.02 Hrs	23.09 Hrs	23.05 Hrs	23.03 Hrs
Sample Received on	: 08.09.2022	09.09.2022	12.09.2022	16.09.2022
Date of Test	: 09.09.2022	10.09.2022	13.09.2022	17.09.2022

Sample ID No	: CPL/AAQ/SEPT-22/180	CPL/AAQ/SEPT-22/291	CPL/AAQ/SEPT-22/344
Date of Sampling	: 18.09.2022 - 19.09.2022	20.09.2022 - 21.09.2022	26.09.2022 - 27.09.2022
Sampling Period	: 0907 - 0812 Hrs	0838 - 0800 Hrs	0845 - 0845 Hrs
Time of Sampling	: 23.05 Hrs	23.22 Hrs	24.00 Hrs
Sample Received on	: 19.09.2022	21.09.2022	27.09.2022
Date of Test	: 20.09.2022	22.09.2022	28.09.2022

Sl No	Sample ID	Parameters			
		PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
	Units				
	Method of Analysis	CPL/SOP/PM2.5, Issue No: 04, dt: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS 5182 (Part - 2), 2001, RA 2017	IS: 5182 (Part - 6), 2006, RA 2017
1.	CPL/AAQ/SEPT-22/103	19	42	12	41
2.	CPL/AAQ/SEPT-22/116	20	49	09	27
3.	CPL/AAQ/SEPT-22/145	16	45	04	07
4.	CPL/AAQ/SEPT-22/165	25	63	< 3	14
5.	CPL/AAQ/SEPT-22/180	19	55	04	12
6.	CPL/AAQ/SEPT-22/291	14	39	03	12
7.	CPL/AAQ/SEPT-22/344	26	64	10	24
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 th 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. Saseen
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

*****END OF TEST REPORT*****
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Consultant and Engineers in Environmental Pollution Control & Monitoring with Laboratory Facility.

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMS7

REPORT NO: CPL/RAAQ/OCT-22/42N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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.:21.5°C	Max Temp.:34.1°C	Min RH:62%	Max RH:100%
--	---	------------------	------------------	------------	-------------

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
			Electrochemical Sensor
			Method of Analysis →
1	07.09.2022	1330 – 1430 Hrs	< 0.1
2	09.09.2022	1100 – 1200 Hrs	< 0.1
3	12.09.2022	0910 – 1010 Hrs	< 0.1
4	16.09.2022	1200 – 1300 Hrs	< 0.1
5	19.09.2022	1105 – 1205 Hrs	< 0.1
6	21.09.2022	1300 – 1400 Hrs	< 0.1
7	27.09.2022	0930 – 1030 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 th 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

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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/MS7

ULR - TC681622000002490F
REPORT NO: CPL/R/AAQ/OCT-22/43

REPORT ISSUE DATE: 06.10.2022

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: 5182

Environmental Conditions During Monitoring : Min Temp.:21.5°C | Max Temp.:34.1°C | Min RH:62% | Max RH:100%

Sample ID No	CPL/AAQ/SEPT-22/359	CPL/AAQ/SEPT-22/358	CPL/AAQ/SEPT-22/356	CPL/AAQ/SEPT-22/357
Station No	A1	A2	A3	A4
Date of Sampling	28.09.2022 - 29.09.2022	28.09.2022 - 29.09.2022	28.09.2022 - 29.09.2022	28.09.2022 - 29.09.2022
Sampling Period	1715 - 1645 Hrs	1735 Hrs - 1601 Hrs	0920 Hrs - 0828 Hrs	0910 Hrs - 0818 Hrs
Time of Sampling	23.30 Hrs	22.24 Hrs	23.08 Hrs	23.08 Hrs
Sample Received on	29.09.2022	29.09.2022	29.09.2022	29.09.2022
Date of Test	30.09.2022	30.09.2022	30.09.2022	30.09.2022

Sl No	Station No	Location of Sampling	Parameters					
			PM2.5	PM10	SO ₂	NO ₂	NH ₃	O ₃
Units			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Method of Analysis			CPL/SP/91/PM2.5, Issue No: 02, dtd: 23.10.2017	EN 12341, 1998 Low Volume Sampler	IS:5182 (Part-2) 2011, RA 2017	IS: 5182 (Part-4) 2005, RA 2017	CPL/SP/91/Hrs, Issue No: 02, dtd: 23.10.2017	IS:5182 (Part-9) 1974, RA 2014
1.	A1	COLONY AREA OF SCL	15	48	04	17	169	54
2.	A2	NEAR MINES MAIN GATE	23	51	09	24	57	< 20
3.	A3	NEAR TG BUILDING	22	55	09	24	50	< 20
4.	A4	NEAR CLINKER BULK LOADING AREA	23	60	04	25	83	25
National Ambient Air Quality Standards, CPCB Notification New Delhi, 13 th November, 2009 for Industrial, Residential, Rural & Other Area			60 (24 Hours Average)	100 (24 Hours Average)	80 (24 Hours Average)	80 (24 Hours Average)	400 (24 Hours Average)	180 (1 Hour Average)

P. Saseeni
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

END OF TEST REPORT

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Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FRST

REPORT NO: CPL/RIAAQ/OCT-22/43N

REPORT ISSUE DATE: 06.10.2022

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: 5182

Environmental Conditions During Monitoring : Min Temp.:21.5°C Max Temp.:34.1°C Min RH:62% Max RH:100%

Sample ID No	CPL/AAQ/SEPT-22/359	CPL/AAQ/SEPT-22/358	CPL/AAQ/SEPT-22/356	CPL/AAQ/SEPT-22/357
Station No	A1	A2	A3	A4
Date of Sampling	29.09.2022	29.09.2022	29.09.2022	29.09.2022
Sampling Period	1715 – 1645 Hrs	1735 Hrs – 1601 Hrs	0920 Hrs – 0828 Hrs	0910 Hrs – 0818 Hrs
Time of Sampling	23.30 Hrs	22.24 Hrs	23.08 Hrs	23.08 Hrs
Sample Received on	29.09.2022	29.09.2022	29.09.2022	29.09.2022
Date of Test	30.09.2022	30.09.2022	30.09.2022	30.09.2022

Sl No	Station No	Location of Sampling	Parameters					
			CO	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Benzene (C ₆ H ₆)	Benzo(a)pyrene (BaP) – Particulate Phase only
Units			mg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
Method of Analysis			Electro-chemical Sensor	IS 5182 (Part – 22: 2004, RA 2014)	CPL/SOP/01/As, Issue No: 02, dtd: 23.10.2017	CPL/SOP/01/Ni, Issue No: 01, dtd: 23.10.2017	IS 5182 (Part – 11): 2006, RA 2017	IS 5182 (Part – 12)
1.	A1	COLONY AREA OF SCL	< 0.1	< 0.4	< 0.2	< 12	< 0.5	< 0.1
2.	A2	NEAR MINES MAIN GATE	< 0.1	< 0.4	< 0.2	< 12	< 0.5	< 0.1
3.	A3	NEAR TG BUILDING	< 0.1	< 0.4	< 0.2	< 12	< 0.5	< 0.1
4.	A4	NEAR CLINKER BULK LOADING AREA	< 0.1	< 0.4	< 0.2	< 12	< 0.5	< 0.1
National Ambient Air Quality Standards, CPCB Notification New Delhi, 18 th November, 2009 for Industrial, Residential, Rural & Other Area			4 (1 Hour Average)	1.0 (24 Hours Average)	06 (Annual Average)	20 (Annual Average)	05 (Annual Average)	01 (Annual Average)

P. Sasani
Test Done By



Verified By

Authorized Signatory
Subhanga Praharaj
Managing Director

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

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Cleenviron Private Limited

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



TEST REPORT FOR FUGITIVE DUST EMISSION MONITORING

FORMAT NO: CPLFM19

ULR – TC681622000002492F
REPORT NO: CPL/R/FG/OCT-22/22

REPORT ISSUE DATE: 06.10.2022

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: 5182 (Part – 23)

Environmental Conditions During Monitoring : Min Temp.:21.5°C Max Temp.:34.1°C Min RH:62% Max RH:100%

Sample ID No	CPL/FG/SEPT-22/241	CPL/FG/SEPT-22/242	CPL/FG/SEPT-22/243	CPL/FG/SEPT-22/244
Station No	F1	F2	F3	F4
Date of Sampling	16.09.2022	18.09.2022	21.09.2022	26.09.2022
Sampling Period	1055 – 1330 Hrs	1318 – 1730 Hrs	1107 – 1336 Hrs	1332 – 1725 Hrs
Time of Sampling	02.35 Hrs	04.12 Hrs	02.29 Hrs	03.53 Hrs
Sample Received on	30.09.2022	30.09.2022	30.09.2022	30.09.2022
Date of Test	30.09.2022 – 01.10.2022			
Method of Analysis	IS: 5182 (Part – 23)			

Sl No	Station No	Location of Sampling	Parameters
			PM ₁₀ in µg/m ³
1.	F1	NEAR KILN AREA	302
2.	F2	NEAR CLINKER BULK LOADING AREA	189
3.	F3	NEAR RAW MILL	201
4.	F4	NEAR MATERIAL STOCK YARD	236

P. Sateni
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

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

Page 1 of 1

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



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 29th September 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	-	3.09	-	-
2	Bore Well Back Side of Coal Yard Within Plant 22° 13' 46.4" N – 84° 25' 02.5" E	0.50	-	12.3	-	-
3	Bore Well Back Side of Kiln Within Plant 22° 16' 31.0" N – 84° 27' 08.6" E	0.10	-	4.15	242.0	237.85

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



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TEST REPORT FOR NOISE LEVEL MONITORING

FORMAT NO: CPL/FM/2

REPORT NO: CPL/R/N/OCT-22/13N

MONITORING DONE BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 06.10.2022

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

Station No	N1	N2	N3	N4
Sample ID	CPL/N/OCT-22/5	CPL/N/OCT-22/6	CPL/N/OCT-22/7	CPL/N/OCT-22/8
Date of Monitoring	07.09.2022	09.09.2022	16.09.2022	15.09.2022
Location of Monitoring	NEAR KILN AREA	NEAR RAW MILL	NEAR MATERIAL STOCK YARD	NEAR TG BUILDING

SL NO	STATION NO	L_{eq} dB(A)	L_{max} dB(A)	L_{min} dB(A)
1.	N1	68.0	83.8	67.9
2.	N2	64.1	79.4	65.3
3.	N3	60.5	74.9	62.7
4.	N4	68.5	82.9	69.5

Station No	N5
Sample ID	CPL/N/OCT-22/9
Date of Monitoring	19.09.2022
Location of Monitoring	NEAR CLINKER BULK LOADING AREA

SL NO	STATION NO	L_{eq} dB(A)	L_{max} dB(A)	L_{min} dB(A)
5	N5	66.2	78.7	62.3


 Test Done By




 Authorized Signatory
 Subhanga Praharaj
 Managing Director

PERMISSIBLE EXPOSURE IN CASE OF CONTINUOUS NOISE as per OSHA

TOTAL TIME OF EXPOSURE DURING DAY	SOUND PRESSURE LEVEL (dBA)
8	90
6	92
4	95
3	97
2	100
1 ^{1/2}	102
1	106
3/4	107
1/2	110
1/4	115

No Exposure in excess of 115 dB (A) is permitted

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

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TEST REPORT FOR NOISE LEVEL MONITORING

FORMAT NO: CPL/FM02

REPORT NO: CPL/R/N/OCT-22/14N

REPORT ISSUE DATE: 06.10.2022

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/SEPT-22/127	CPL/N/SEPT-22/130	CPL/N/SEPT-22/128
Date of Monitoring	11.09.2022	17.09.2022	13.09.2022
Location of Monitoring	COLONY AREA	NEAR MAIN GATE	NEAR TG BUILDING

SL NO	STATION NO	L _{eq} DAY TIME (6:00AM - 10:00PM) dB(A)	L _{eq} NIGHT TIME (10:00PM - 6:00AM) dB(A)	L _{max} dB(A)	L _{min} dB(A)
1.	N1	47.0	39.1	64.9	41.6
2.	N2	60.8	49.7	68.5	42.1
3.	N3	69.6	60.1	83.8	51.7

Station No	N4	N5
Sample ID	CPL/N/SEPT-22/129	CPL/N/SEPT-22/131
Date of Monitoring	15.09.2022	19.09.2022
Location of Monitoring	NEAR CLINKER BULK LOADING AREA	TELEGHANA

SL NO	STATION NO	L _{eq} DAY TIME (6:00AM - 10:00PM) dB(A)	L _{eq} NIGHT TIME (10:00PM - 6:00AM) dB(A)	L _{max} dB(A)	L _{min} dB(A)
3.	N4	67.9	56.7	79.8	38.5
4.	N5	51.0	43.7	63.7	41.3

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) Leg.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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