



Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/PM25A

REPORT NO: CPL/R/AAQ/DEC-22/8N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, 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

Sample ID No	: CPL/AAQ/NOV-22/85	CPL/AAQ/NOV-22/142	CPL/AAQ/NOV-22/160	CPL/AAQ/NOV-22/174
Date of Sampling	: 02.11.2022 - 03.11.2022	04.11.2022 - 05.11.2022	08.11.2022 - 09.11.2022	11.11.2022 - 12.11.2022
Sampling Period	: 0935 - 0940 Hrs	1804 - 1818 Hrs	1745 - 1758 Hrs	1838 - 1930 Hrs
Time of Sampling	: 24.05 Hrs	24.14 Hrs	24.13 Hrs	24.52 Hrs
Sample Received on	: 03.11.2022	12.11.2022	12.11.2022	12.11.2022
Date of Test	: 04.11.2022	13.11.2022	14.11.2022	14.11.2022

Sample ID No	: CPL/AAQ/NOV-22/188	CPL/AAQ/NOV-22/297	CPL/AAQ/NOV-22/316	CPL/AAQ/NOV-22/337
Date of Sampling	: 14.11.2022 - 15.11.2022	17.11.2022 - 18.11.2022	21.11.2022 - 22.11.2022	25.11.2022 - 26.11.2022
Sampling Period	: 1830 - 1840 Hrs	1740 - 1750 Hrs	1821 - 1828 Hrs	1758 - 1805 Hrs
Time of Sampling	: 24.10 Hrs	24.10 Hrs	24.07 Hrs	24.07 Hrs
Sample Received on	: 15.11.2022	19.11.2022	24.11.2022	26.11.2022
Date of Test	: 16.11.2022	21.11.2022	25.11.2022	28.11.2022

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/NOVPM2.5, 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/NOV-22/85	22	69	04	19
2.	CPL/AAQ/NOV-22/142	23	71	05	17
3.	CPL/AAQ/NOV-22/160	18	55	07	19
4.	CPL/AAQ/NOV-22/174	20	58	08	21
5.	CPL/AAQ/NOV-22/188	21	57	04	12
6.	CPL/AAQ/NOV-22/297	27	77	07	20
7.	CPL/AAQ/NOV-22/316	29	72	06	18
8.	CPL/AAQ/NOV-22/337	21	55	07	16
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)

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.



Cleenviron Private Limited

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

TEST REPORT FOR AMBIENT AIR QUALITY MONITORING

FORMAT NO: CPL/FMSTA

REPORT NO: CPL/RIA/Q/DEC-22/8N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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**

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
	Method of Analysis		Electrochemical Sensor
1	02.11.2022	1530 – 1630 Hrs	< 0.1
2	04.11.2022	1000 – 1100 Hrs	< 0.1
3	08.11.2022	0840 – 0940 Hrs	< 0.1
4	11.11.2022	1200 – 1300 Hrs	< 0.1
5	14.11.2022	1100 – 1200 Hrs	< 0.1
6	17.11.2022	1300 – 1400 Hrs	< 0.1
7	21.11.2022	0930 – 1030 Hrs	< 0.1
8	25.11.2022	1030 – 1130 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 15 th November 2009			04 (1 Hour Average)

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.

Registered Office:

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

Branch Office & Laboratory:

D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 9661 – 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/FM/17A

REPORT NO: CPL/IAAQ/DEC-22/9N

REPORT ISSUE DATE: 01.12.2022

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

Sample ID No	CPL/IAAQ/NOV-22/86	CPL/IAAQ/NOV-22/143	CPL/IAAQ/NOV-22/161	CPL/IAAQ/NOV-22/175
Date of Sampling	02.11.2022 - 03.11.2022	04.11.2022 - 05.11.2022	08.11.2022 - 09.11.2022	11.11.2022 - 12.11.2022
Sampling Period	0925 - 0934 Hrs	0925 - 0934 Hrs	1745 - 1758 Hrs	1738 - 1750 Hrs
Time of Sampling	24.09 Hrs	24.09 Hrs	24.13 Hrs	24.12 Hrs
Sample Received on	03.11.2022	12.11.2022	12.11.2022	12.11.2022
Date of Test	04.11.2022	13.11.2022	13.11.2022	13.11.2022

Sample ID No	CPL/IAAQ/NOV-22/189	CPL/IAAQ/NOV-22/296	CPL/IAAQ/NOV-22/317	CPL/IAAQ/NOV-22/336
Date of Sampling	14.11.2022 - 15.11.2022	17.11.2022 - 18.11.2022	21.11.2022 - 22.11.2022	25.11.2022 - 26.11.2022
Sampling Period	1807 - 1815 Hrs	1730 - 1743 Hrs	1810 - 1823 Hrs	1740 - 1755 Hrs
Time of Sampling	24.08 Hrs	24.13 Hrs	24.13 Hrs	24.15 Hrs
Sample Received on	15.11.2022	19.11.2022	24.11.2022	26.11.2022
Date of Test	16.11.2022	21.11.2022	25.11.2022	28.11.2022

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/ISO/901/PM2.5, Issue No: 04, dt: 23.10.2017	EN 12341, 1989 Low Volume Sampler	IS: 5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 3) 2001, RA 2017
1.	CPL/IAAQ/NOV-22/86	21	51	05	20
2.	CPL/IAAQ/NOV-22/143	26	78	07	21
3.	CPL/IAAQ/NOV-22/161	27	75	04	11
4.	CPL/IAAQ/NOV-22/175	16	47	07	18
5.	CPL/IAAQ/NOV-22/189	20	72	08	23
6.	CPL/IAAQ/NOV-22/296	15	46	08	25
7.	CPL/IAAQ/NOV-22/317	26	71	04	10
8.	CPL/IAAQ/NOV-22/336	24	68	07	18
National Ambient Air Quality Standards, CPCB Notification New Delhi, 15 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)

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.

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

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 6661 - 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/FM57A

REPORT NO: CPL/R/AAQ/DEC-22/9N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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**

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
			Electrochemical Sensor
1	02.11.2022	0930 - 1030 Hrs	< 0.1
2	04.11.2022	1000 - 1100 Hrs	< 0.1
3	08.11.2022	0840 - 0940 Hrs	< 0.1
4	11.11.2022	1200 - 1300 Hrs	< 0.1
5	14.11.2022	1100 - 1200 Hrs	< 0.1
6	17.11.2022	1300 - 1400 Hrs	< 0.1
7	21.11.2022	0930 - 1030 Hrs	< 0.1
8	25.11.2022	1030 - 1130 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 th November 2009			04 (1 Hour Average)


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.

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/FM/07A

REPORT NO: CPL/R/AAQ/DEC-22/10N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Tellighana, 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

Sample ID No	CPL/AAQ/NOV-22/87	CPL/AAQ/NOV-22/144	CPL/AAQ/NOV-22/162	CPL/AAQ/NOV-22/176
Date of Sampling	02.11.2022 - 03.11.2022	04.11.2022 - 05.11.2022	08.11.2022 - 09.11.2022	11.11.2022 - 12.11.2022
Sampling Period	0915 - 0915 Hrs	0902 - 0915 Hrs	1810 - 1825 Hrs	0913 - 0921 Hrs
Time of Sampling	24.00 Hrs	24.13 Hrs	24.15 Hrs	24.08 Hrs
Sample Received on	03.11.2022	12.11.2022	12.11.2022	12.11.2022
Date of Test	04.11.2022	13.11.2022	13.11.2022	13.11.2022

Sample ID No	CPL/AAQ/NOV-22/191	CPL/AAQ/NOV-22/299	CPL/AAQ/NOV-22/314	CPL/AAQ/NOV-22/335
Date of Sampling	14.11.2022 - 15.11.2022	17.11.2022 - 18.11.2022	21.11.2022 - 22.11.2022	25.11.2022 - 26.11.2022
Sampling Period	0900 - 0914 Hrs	0905 - 0915 Hrs	1002 - 1010 Hrs	0905 - 0915 Hrs
Time of Sampling	24.15 Hrs	24.10 Hrs	23.50 Hrs	24.10 Hrs
Sample Received on	15.11.2022	19.11.2022	24.11.2022	26.11.2022
Date of Test	16.11.2022	21.11.2022	25.11.2022	28.11.2022

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/SDP/100/PM2.5, Issue No: 04, dt: 23.09.2017	EN 12341, 1890 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017
1.	CPL/AAQ/NOV-22/87	25	76	06	23
2.	CPL/AAQ/NOV-22/144	22	77	07	27
3.	CPL/AAQ/NOV-22/162	26	78	06	18
4.	CPL/AAQ/NOV-22/176	26	81	05	15
5.	CPL/AAQ/NOV-22/191	26	84	07	20
6.	CPL/AAQ/NOV-22/299	18	68	09	25
7.	CPL/AAQ/NOV-22/314	26	79	04	16
8.	CPL/AAQ/NOV-22/335	29	80	08	21
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)

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/PM57A

REPORT NO: CPL/R/AAQ/DEC-22/10N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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**

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)	
			Method of Analysis	Electrochemical Sensor
1	02.11.2022	1530 - 1630 Hrs		< 0.1
2	04.11.2022	1000 - 1100 Hrs		< 0.1
3	08.11.2022	0840 - 0940 Hrs		< 0.1
4	11.11.2022	1200 - 1300 Hrs		< 0.1
5	14.11.2022	1100 - 1200 Hrs		< 0.1
6	17.11.2022	1300 - 1400 Hrs		< 0.1
7	21.11.2022	0930 - 1030 Hrs		< 0.1
8	25.11.2022	1030 - 1130 Hrs		< 0.1
National Ambient Air Quality Standards, CPCB Notification 18 th November 2009				04 (1 Hour Average)

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.

Registered Office:
D/313, 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/FM/07A

REPORT NO: CPL/IR/AAQ/DEC-22/11N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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

Sample ID No	CPL/AAQ/NOV-22/88	CPL/AAQ/NOV-22/145	CPL/AAQ/NOV-22/163	CPL/AAQ/NOV-22/177
Date of Sampling	02.11.2022 - 03.11.2022	04.11.2022 - 05.11.2022	08.11.2022 - 09.11.2022	11.11.2022 - 12.11.2022
Sampling Period	0920 - 0910 Hrs	1820 - 1834 Hrs	1810 - 1825 Hrs	0913 - 0921 Hrs
Time of Sampling	23.50 Hrs	24.14 Hrs	24.15 Hrs	24.08 Hrs
Sample Received on	02.11.2022	12.11.2022	12.11.2022	12.11.2022
Date of Test	03.11.2022	13.11.2022	13.11.2022	13.11.2022

Sample ID No	CPL/AAQ/NOV-22/190	CPL/AAQ/NOV-22/298	CPL/AAQ/NOV-22/315	CPL/AAQ/NOV-22/338
Date of Sampling	14.11.2022 - 15.11.2022	17.11.2022 - 18.11.2022	21.11.2022 - 22.11.2022	25.11.2022 - 26.11.2022
Sampling Period	0915 - 0930 Hrs	0915 - 0930 Hrs	1012 - 1023 Hrs	0912 - 0930 Hrs
Time of Sampling	24.15 Hrs	24.15 Hrs	24.11 Hrs	24.18 Hrs
Sample Received on	15.11.2022	19.11.2022	24.11.2022	26.11.2022
Date of Test	16.11.2022	21.11.2022	25.11.2022	27.11.2022

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: 01, dt: 23.10.2017	EN 12341, 1989 Low Volume Sampler	IS:5182 (Part - 2) 2001, RA 2017	IS: 5182 (Part - 6) 2006, RA 2017
1.	CPL/AAQ/NOV-22/88	24	87	05	21
2.	CPL/AAQ/NOV-22/145	24	68	04	14
3.	CPL/AAQ/NOV-22/163	26	75	08	21
4.	CPL/AAQ/NOV-22/177	17	52	11	28
5.	CPL/AAQ/NOV-22/190	23	63	07	26
6.	CPL/AAQ/NOV-22/298	17	49	03	19
7.	CPL/AAQ/NOV-22/315	25	68	04	13
8.	CPL/AAQ/NOV-22/338	27	73	06	18
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)

Test Done By

Verified By



Authorized Signatory
Suhanga 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:
D316, 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/FM57A

REPORT NO: CPL/IR/AAQ/DEC-22/11N

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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**

Sl No	Date of Monitoring	Time of Monitoring	Carbon Monoxide (as CO)
Method of Analysis			Electrochemical Sensor
1	02.11.2022	1230 - 1330 Hrs	< 0.1
2	04.11.2022	1100 - 1200 Hrs	< 0.1
3	08.11.2022	0940 - 1040 Hrs	< 0.1
4	11.11.2022	1200 - 1300 Hrs	< 0.1
5	14.11.2022	1130 - 1230 Hrs	< 0.1
6	17.11.2022	1310 - 1410 Hrs	< 0.1
7	21.11.2022	1020 - 1120 Hrs	< 0.1
8	25.11.2022	1130 - 1230 Hrs	< 0.1
National Ambient Air Quality Standards, CPCB Notification 15 th November 2009			04 (1 Hour Average)

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.

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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/3

REPORT NO: CPL/R/W/DEC-22/9N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/42**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Tube Well Village Kutra
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	1.20	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	7.24	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	262.4	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.24	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	23.99	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	321	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	507	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	78.88	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	15.94	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	5.46	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	4.06	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	172	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	06	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	19.99	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	17.32	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chakraborty
Test Done By

M/S
Verified By



S. Subhanga
Authorized Signatory
Subhanga Praharaj
Managing Director

Page 1 of 2

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/313, 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 Laboratory Facility.

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FWR

REPORT NO: CPL/RW/DEC-22/9N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRO PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/42**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Tube Well Village Kutra
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10501: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

C. Sahas
Test Done By



Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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/113, 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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/3

REPORT NO: CPL/RW/DEC-22/9N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/42**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Tube Well Village Kutra
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.5	°C	-
5	Residual Free Chlorine	MERCK	0.04	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent

Chirahon
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/316, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

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

Tele Fax: 6661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMM

REPORT NO: CPLR/WIDEC-22/10N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/40**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Sialhor
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	0.40	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	7.03	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	229.6	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.19	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	50.98	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	310	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	518	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	52.58	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	23.91	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	12.84	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	4.06	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	142	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	08	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	17.16	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	14.12	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chandoo
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

Page 1 of 2

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:
D318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 1661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMS

REPORT NO: CPL/R/WIDEC-22/10N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/40**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Sialjhor
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS: 10500: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

Chachon
Test Done By

Subhanga
Verified By



Subhanga
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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:
D318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 8661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/MSB

REPORT NO: CPLR/WIDEC-22/10N

REPORT ISSUE DATE: 01.12.2022

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
Sample ID No : **CPL/W/NOV-22/40**
Date of Sampling : 19.11.2022
Sample Description : Ground Water
Location of Sampling : Bore Well Village Sialjhor
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt : Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 19.11.2022
Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.6	°C	-
5	Residual Free Chlorine	MERCK	0.07	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent


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.

Registered Office:
D/315, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 9661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/02

REPORT NO: CPL/RW/DEC-22/11N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/41**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Budhakata
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	1.10	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	7.68	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	213.2	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.27	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	20.99	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	257	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	399	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	64.08	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	12.95	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ 2- E	4.24	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	8.40	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	140	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	04	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	12.09	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	6.88	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chakraborty
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

Page 1 of 2

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: 8661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMSB

REPORT NO: CPLR/W/DEC-22/11N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/41**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Village Budhakata
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

[Signature]
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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/313, 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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FR08

REPORT NO: CPLR/WIDEC-22/11N

REPORT ISSUE DATE: 01.12.2022

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
Sample ID No : **CPL/W/NOV-22/41**
Date of Sampling : 19.11.2022
Sample Description : Ground Water
Location of Sampling : Bore Well Village Budhakata
Sampling Method : APHA 23rd Edition, 1060
Sampling Deviation (if any) : Nil
Condition of Sample while receipt : Sealed
Appearance of Sample while receipt: Clear
Type of Container used for sampling: Wide mouth Plastic Bottles
Sample Received on : 19.11.2022
Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.5	°C	-
5	Residual Free Chlorine	MERCK	0.05	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent


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.

Registered Office:
D/518, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 8661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/PM3

REPORT NO: CPLIR/WIDEC-22/12N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/44**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Kiln Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS: 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	3.2	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	8.00	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	389.5	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.26	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	187.94	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	512	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	838	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	142.96	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	7.97	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	17.06	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	10.61	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	80	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	20	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	12.52	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	11.00	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chirahos
Test Done By

hit
Verified By



Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director

Page 1 of 2

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/118, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 1661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM03

REPORT NO: CPL/R/W/DEC-22/12N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/44**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Kiln Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

Chakrabarti
Test Done By

P.L.
Verified By



Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMS

REPORT NO: CPL/R/W/DEC-22/12N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/44**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Kiln Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.5	°C	-
5	Residual Free Chlorine	MERCK	0.10	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent


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.

Registered Office:
D/315, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 8661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM02

REPORT NO: CPL/R/W/DEC-22/13N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/45**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Near Cement Mill
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	0.20	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	6.40	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	53.3	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.29	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	14.99	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	92	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	150.6	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	14.78	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	3.98	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ 2- E	17.85	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	2.34	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	28	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	24	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	6.16	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	0.59	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chiraha
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM83

REPORT NO: CPL/R/W/DEC-22/13N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/45**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Near Cement Mill
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10300: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

Chakrabarti
Test Done By

Subhanga
Verified By



Subhanga
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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/315, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 9661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM10

REPORT NO: CPL/R/W/DEC-22/13N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/45**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Near Cement Mill
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.7	°C	-
5	Residual Free Chlorine	MERCK	0.04	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent


 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.

Registered Office:
D/319, 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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FW/9

REPORT NO: CPL/R/W/DEC-22/14N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Teli ghana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/43**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Coal Yard
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	0.40	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	6.64	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	237.8	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.23	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	24.99	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	342	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	552	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	64.08	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	18.93	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ E	171.37	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	3.18	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	24	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	20	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	20.16	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	12.19	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

Chasehos
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

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 WATER QUALITY ANALYSIS

FORMAT NO: CPLFM03

REPORT NO: CPL/R/W/DEC-22/14N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/43**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Coal Yard
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10300: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

Test Done By

Verified By



Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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/319, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

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

Tele Fax: 9661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM/01

REPORT NO: CPLR/W/DEC-22/14N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/43**
 Date of Sampling : 19.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well Back Side of Coal Yard
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 26.11.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	24.5	°C	-
5	Residual Free Chlorine	MERCK	0.04	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent

Chasahon
 Test Done 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/118, 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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/WM

REPORT NO: CPLR/W/DEC-22/15N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/56**
 Date of Sampling : 25.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well of SCL Colony
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 26.11.2022
 Date of Test : 26.11.2022 – 01.12.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
1	Turbidity	APHA 23 rd Edition, 2130 B	1.0	NTU	1.0
2	pH Value	APHA 23 rd Edition, 4500 H+B	6.54	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	20.5	mg/l	200
4	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.11	mg/l	0.3
5	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	9.99	mg/l	250
6	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	60	mg/l	500
7	Electrical Conductivity	APHA 23 rd Edition, 2510 B	93.1	µS/cm	-
8	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	4.93	mg/l	75
9	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	1.99	mg/l	30
10	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.05
11	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	0.1
12	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	7.00	mg/l	200
13	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	APHA 23 rd Edition, 2320 B	16	mg/l	200
15	Acidity	APHA 23 rd Edition, 2310 B	24	mg/l	-
16	Sulphide (as H ₂ S)	APHA 23 rd Edition, 4500 S ²⁻ D	< 0.02	mg/l	0.05
17	Sodium (as Na)	APHA 23 rd Edition, 3500 Na B	12.10	mg/l	-
18	Potassium (as K)	APHA 23 rd Edition, 3500 K B	7.32	mg/l	-
19	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.0

C. S. Choudhary
Test Done By

[Signature]
Verified By



[Signature]
Authorized Signatory
Subhanga Praharaj
Managing Director

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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/PM/01

REPORT NO: CPL/R/W/DEC-22/15N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/56**
 Date of Sampling : 25.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well of SCL Colony
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 26.11.2022
 Date of Test : 26.11.2022 – 01.12.2022

Sl No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS 10500: 2012
20	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.003
21	Lead (as Pb)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.01
22	Arsenic (as As)	APHA 23 rd Edition, 3114 B	ND	mg/l	0.01
23	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	ND	mg/l	0.001
24	Selenium (as Se)	APHA 23 rd Edition, 3114 C	ND	mg/l	0.01
25	Nickel (as Ni)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.02
26	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	ND	mg/l	5.0
27	Total Chromium (as Cr)	APHA 23 rd Edition, 3111 B	ND	mg/l	0.05

ND: Non Detectable.

C. Sahu
Test Done By



Subhanga Praharaj
Authorized Signatory
Subhanga Praharaj
Managing Director

**** End of Test Report ****

Page 2 of 2

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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FR0

REPORT NO: CPL/R/W/DEC-22/15N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIK PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/56**
 Date of Sampling : 25.11.2022
 Sample Description : Ground Water
 Location of Sampling : Bore Well of SCL Colony
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide mouth Plastic Bottles
 Sample Received on : 26.11.2022
 Date of Test : 26.11.2022 – 01.12.2022

S/No	Parameter	Method of Analysis	Results Obtained	Unit	Acceptable Limit as per IS-10500: 2012
1	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	5
2	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	Agreeable
3	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	Agreeable
4	Temperature	APHA 23 rd Edition, 2550 B	23.1	°C	-
5	Residual Free Chlorine	MERCK	0.04	mg/l	0.2 (min)
6	Total Bacterial Count	RAKIRO	Absent	Nos/100ml	Absent
7	E coli	RAKIRO	Absent	Nos/100ml	Absent

Chascha
 Test Done By

M.K.
 Verified By



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/313, 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.

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 14th November 2022 for the month from the following mentioned points and data thus recorded are as follows:

SI 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	-	6.29	-	-
2	Bore Well Back Side of Coal Yard Within Plant 22° 13' 46.4" N – 84° 25' 02.5" E	0.50	-	11.57	-	-
3	Bore Well Back Side of Kiln Within Plant 22° 16' 31.0" N – 84° 27' 08.6" E	0.10	-	12.58	242.0	229.42

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 Laboratory Facility.

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/WMR

REPORT NO: CPL/R/W/DEC-22/16N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/34**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Matwali Jor Before ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2286 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.18	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	220	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	132	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	114.8	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	10.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	2.33	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	24.65	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	12.95	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.42	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁶⁺)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	17.1	mg/l	-

Test Done By

Verified By



Authorized Signatory
Sudhanga 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: 6661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/RW9

REPORT NO: CPL/RW/DEC-22/16N

REPORT ISSUE DATE: 01.12.2022


SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/34**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Matwali Jor Before ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2286 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 38) 1989, RA 2019	6.2	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	01	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	3.52	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds(as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Nos/100ml	5000


 Test Done By




 Authorized Signatory
 Subhanga Prahasraj
 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 WATER QUALITY ANALYSIS

FORMAT NO: CPLR/W/99

REPORT NO: CPLR/W/DEC-22/17N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/35**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Daku Nadi After ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.74	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	302	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	181	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	147.6	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	13.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	4.73	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	36.15	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	13.94	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.39	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁶⁺)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	4.4	mg/l	-

Chakravorty
Test Done By

Subhanga
Verified By



Subhanga
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 Laboratory Facility.

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/PM3

REPORT NO: CPL/R/WDEC-22/17N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/35**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Daku Nadi After ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 38) 1969, RA 2019	6.1	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	01	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	1.76	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds(as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Nosh/100ml	5000


 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:

DI318, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:

DI124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 8661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/R/W/3

REPORT NO: CPL/R/W/DEC-22/18N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/36**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Kanti Jharia Nala Before ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.70	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	381	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	229	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	205	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	10.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	3.44	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	49.29	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	19.93	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.19	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁶⁺)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	6.2	mg/l	-

Chandee
Test Done By



Verified By

Authorized Signatory
Subhanga Praheraj
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:

DG18, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:

DN124, 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 Laboratory Facility.

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/RW/9

REPORT NO: CPL/RW/DEC-22/18N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/36**
 Sample Description : **Surface Water**
 Date of Sampling : **19.11.2022**
 Location of Sampling : **Kanti Jharia Nala Before ML Area**
 Sampling Method : **APHA 23rd Edition, 1060**
 Sampling Deviation (if any) : **Nil**
 Condition of Sample while receipt : **Sealed**
 Appearance of Sample while receipt: **Clear**
 Type of Container used for sampling: **Wide Mouth Plastic Bottles**
 Sample Received on : **19.11.2022**
 Date of Test : **19.11.2022 – 25.11.2022**

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 38) 1989, RA 2019	6.2	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	01	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	3.52	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds(as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Noc/100ml	5000


 Test Done By




 Authorized Signatory
 Subhanga Prasharaj
 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:

D318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:

DH124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 6661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/R/W/01

REPORT NO: CPL/R/W/DEC-22/19N

REPORT ISSUE DATE: 01.12.2022

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**
 Sample ID No : **CPL/W/NOV-22/37**
 Sample Description : **Surface Water**
 Date of Sampling : **19.11.2022**
 Location of Sampling : **Kanti Jharia Nala After ML Area**
 Sampling Method : **APHA 23rd Edition, 1060**
 Sampling Deviation (if any) : **Nil**
 Condition of Sample while receipt : **Sealed**
 Appearance of Sample while receipt : **Clear**
 Type of Container used for sampling : **Wide Mouth Plastic Bottles**
 Sample Received on : **19.11.2022**
 Date of Test : **19.11.2022 – 25.11.2022**

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.73	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	387	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	232	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	205	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	12.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	1.54	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	52.58	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	17.93	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.28	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁺⁶)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	8.3	mg/l	-

Chandra
Test Done By

M.T.
Verified By



Sushanga Praharaj
Authorized Signatory
Sushanga 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:

DS18, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:

DI124, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Tele Fax: 6661 – 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMSI

REPORT NO: CPL/R/WIDEC-22/19N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/37**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Kanti Jharia Nala After ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 38) 1989, RA 2019	6.2	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	01	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	3.52	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds(as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Ncs/100ml	5000


 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

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



Cleenviron Private Limited

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

TEST REPORT FOR WATER QUALITY ANALYSIS

FORMAT NO: CPL/FM90

REPORT NO: CPL/R/W/DEC-22/20N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoll, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/38**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Nakti Jor Nala Before ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt : Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.52	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	392	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	235	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	213.2	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	10.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	3.13	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	37.79	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	28.89	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.39	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁺⁶)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	5.2	mg/l	-

Test Done By

Verified By



Authorized Signatory
Subhanga Prashraj
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 WATER QUALITY ANALYSIS

FORMAT NO: CPLFM99

REPORT NO: CPL/RW/DEC-22/20N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telighana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/38**
 Sample Description : **Surface Water**
 Date of Sampling : **19.11.2022**
 Location of Sampling : **Nakti Jor Nala Before ML Area**
 Sampling Method : **APHA 23rd Edition, 1060**
 Sampling Deviation (if any) : **Nil**
 Condition of Sample while receipt : **Sealed**
 Appearance of Sample while receipt: **Clear**
 Type of Container used for sampling: **Wide Mouth Plastic Bottles**
 Sample Received on : **19.11.2022**
 Date of Test : **19.11.2022 – 25.11.2022**

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 36) 1989, RA 2019	6.1	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	01	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	3.52	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds(as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Nos/100ml	5000

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.

Registered Office:
D318, KOELNAGAR, ROURKELA – 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
DH124, 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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/WM

REPORT NO: CPLR/W/DEC-22/21N

REPORT ISSUE DATE: 01.12.2022

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
 Sample ID No : **CPL/W/NOV-22/39**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Nakti Jor Nala After ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	pH Value	APHA 23 rd Edition, 4500 H+B	7.83	-	6.5 – 8.5
2.	Electrical Conductivity	APHA 23 rd Edition, 2510 B	384	µS/cm	-
3.	Total Dissolved Solids	APHA 23 rd Edition, 2540 B	230	mg/l	1500
4.	Total Hardness (as CaCO ₃)	APHA 23 rd Edition, 2340 C	205	mg/l	-
5.	Chlorides (as Cl)	APHA 23 rd Edition, 4500 Cl B	10.99	mg/l	600
6.	Sulfate (as SO ₄)	APHA 23 rd Edition, 4500 SO ₄ ²⁻ E	1.83	mg/l	400
7.	Total Nitrate (as NO ₃)	APHA 23 rd Edition, 4500 NO ₃ B	< 2.20	mg/l	50
8.	Fluoride (as F)	APHA 23 rd Edition, 4500 F D	< 0.05	mg/l	1.5
9.	Calcium (as Ca)	APHA 23 rd Edition, 3500 Ca B	44.36	mg/l	-
10.	Magnesium (as Mg)	APHA 23 rd Edition, 3500 Mg B	22.91	mg/l	-
11.	Copper (as Cu)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	1.5
12.	Iron (as Fe)	APHA 23 rd Edition, 3500 Fe B	0.57	mg/l	50
13.	Manganese (as Mn)	APHA 23 rd Edition, 3500 Mn B	< 0.05	mg/l	-
14.	Zinc (as Zn)	APHA 23 rd Edition, 3111 B	< 0.02	mg/l	15
15.	Total Arsenic (as As)	APHA 23 rd Edition, 3114 B	< 0.002	mg/l	0.2
16.	Mercury (as Hg)	APHA 23 rd Edition, 3112 B	< 0.01	mg/l	-
17.	Lead (as Pb)	APHA 23 rd Edition, 3111 B	< 0.10	mg/l	0.1
18.	Cadmium (as Cd)	APHA 23 rd Edition, 3111 B	< 0.05	mg/l	0.01
19.	Hex. Chromium (as Cr ⁺⁶)	APHA 23 rd Edition, 3500 Cr B	< 0.01	mg/l	0.05
20.	Selenium (as Se)	APHA 23 rd Edition, 3114 C	< 0.01	mg/l	0.05
21.	Total Suspended Solids	APHA 23 rd Edition, 2540 D	9.6	mg/l	-

Chachoo
Test Done By



Verified By

Subhanga Preharaj
Authorized Signatory
Subhanga Preharaj
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 WATER QUALITY ANALYSIS

FORMAT NO: CPL/FMSI

REPORT NO: CPL/R/WIDEC-22/21N

REPORT ISSUE DATE: 01.12.2022

SAMPLE DRAWN BY CLEENVIRON PRIVATE LIMITED

Name of the Customer : **M/s SHIVA CEMENT LIMITED**
 Address of the Customer : At: Telihana, Po: Biringatoli, Via: Kutra, Dist: Sundargarh, Odisha
 Sample ID No : **CPL/W/NOV-22/39**
 Sample Description : Surface Water
 Date of Sampling : 19.11.2022
 Location of Sampling : Nakti Jor Nala After ML Area
 Sampling Method : APHA 23rd Edition, 1060
 Sampling Deviation (if any) : Nil
 Condition of Sample while receipt : Sealed
 Appearance of Sample while receipt: Clear
 Type of Container used for sampling: Wide Mouth Plastic Bottles
 Sample Received on : 19.11.2022
 Date of Test : 19.11.2022 – 25.11.2022

Sl No	Parameters	Method of Analysis	Results Obtained	Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
1.	Colour	APHA 23 rd Edition, 2120 B	< 5	Hazen	300
2.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	-	-
3.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	-	-
4.	Dissolved Oxygen (Min.)	IS: 3025 (Part 38) 1989, RA 2019	6.0	mg/l	4
5.	BOD 5 days at 20°C	APHA 23 rd Edition, 5210 D	02	mg/l	3
6.	Oil & Grease	IS: 3025 (Part 39) 1991, RA 2019	< 0.10	mg/l	0.1
7.	Free Carbon Dioxide (as CO ₂)	APHA 23 rd Edition, 4500 CO ₂ C	1.76	mg/l	-
8.	Free Ammonia (as NH ₃)	MERCK	< 0.012	mg/l	-
9.	Cyanide (as CN)	MERCK	< 0.002	mg/l	0.05
10.	Phenolic Compounds (as C ₆ H ₅ OH)	MERCK	< 0.002	mg/l	0.005
11.	Anionic Detergents (as MBAS)	MERCK	< 0.05	mg/l	1.0
12.	Total Coliforms	RAKIRO	10	Nos/100ml	5000


 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/315, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA

Branch Office & Laboratory:
D/124, KOELNAGAR, ROURKELA - 769014, Dist: SUNDARGARH, ODISHA
Tele Fax: 9661 - 2475746, email: cleenviron@gmail.com



Cleenviron Private Limited

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

TEST REPORT FOR NOISE LEVEL MONITORING

FORMAT NO: CPLFM02

REPORT NO: CPL/R/N/DEC-22/11N

MONITORING DONE BY CLEENVIRON PRIVATE LIMITED

REPORT ISSUE DATE: 01.12.2022

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/NOV-22/12	CPL/N/NOV-22/13	CPL/N/NOV-22/14
Date of Monitoring	17.11.2022 – 18.11.2022	21.11.2022 – 22.11.2022	14.11.2022 – 15.11.2022
Location of Monitoring	COLONY AREA	NEAR MAIN GATE	NEAR TG BUILDING

SL NO	STATION NO	L ₂₄ DAY TIME (6:00AM – 10:00PM) dB(A)	L ₁₀ NIGHT TIME (10:00PM – 6:00AM) dB(A)	L _{max} dB(A)	L _{min} dB(A)
1.	N1	59.2	48.1	65.8	42.1
2.	N2	65.8	50.6	73.0	35.2
3.	N3	69.4	61.7	73.7	50.2

Station No	N4	N5
Sample ID	CPL/N/NOV-22/15	CPL/N/NOV-22/13
Date of Monitoring	11.11.2022 – 12.11.2022	25.11.2022 – 26.11.2022
Location of Monitoring	NEAR CLINKER BULK LOADING AREA	TELEGHANA

SL NO	STATION NO	L ₂₄ DAY TIME (6:00AM – 10:00PM) dB(A)	L ₁₀ NIGHT TIME (10:00PM – 6:00AM) dB(A)	L _{max} dB(A)	L _{min} dB(A)
3.	N4	68.4	59.5	73.2	39.6
4.	N5	61.2	47.8	68.1	43.1

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

****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/311, 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