



CIN L28942OR1985PLC001557

# SHIVA CEMENT LIMITED

PLOT NO. YY-6  
CIVIL TOWNSHIP  
740 AREA, ROURKELA  
ODISHA, INDIA. PIN - 759004.

SCL/6000-09/2020-21/04

04.01.2021

To  
The Member Secretary  
State Pollution Control Board, Odisha  
(Department of Forest & Environment, Govt. of Odisha)  
Paribesh Bhawan, A/118, Nilakantha Nagar,  
Unit-VIii, Bhubaneswar-751 012

Sub: Environment Monitoring Reports for the month of December-2020.

Dear Sir,

Please find attached herewith the Environment Monitoring Report for the month of December-2020.

Thanking you

Yours Faithfully  
For Khatkurbahal L/D Mines of  
Shiva Cement Limited

(Anil Mishra)  
Unit Head

Encl. As above,

Copy to :  
The Regional Officer  
OSPCB, Rourkela

**ENVIRONMENTAL MONITORING REPORT  
FOR THE MONTH OF DECEMBER  
2020**

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At the request of:

**M/s. KHATKURBAHAL LIMESTONE MINES**  
Khatkurbahal, P.o. – Kutra, Dist.- Sundardarh  
(Odisha)

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Conducted By:



**M/s. MITRA S.K. PRIVATE LIMITED**

At/Po – Barbil  
Dist.- : Keonjhar, (Odisha)  
Pin - 758035.

A/P.O : BARBIL Ward No-6  
 Dist : Keonjhar, Odisha - 758005  
 CIN: U51909WB1955PTC021037

T : +91 94370 09815, 94370 09820, 94370 75269  
 E : barbil@mitrask.co.in  
 W : www.mitrask.com

Ref. No. BBL/ENV/2306


DATE: 02/01/2021

**ANALYSIS REPORT OF AMBIENT AIR**

Name of the Mines : M/s. KHATKURBAHAL LIMESTONE MINES

Address : Khatkurbahal, Kutra, Dist. Sundargarh (Odisha)

Sl. No.	Date of Monitoring	Location	Concentration of Pollutants				
			PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\mu\text{g}/\text{m}^3$ )
1	22/23.12.2020	Office Site (South)	62.4	34.6	7.0	21.2	0.36
2	22/23.12.2020	Mining Site (South)	66.5	36.2	6.8	21.6	0.34
Limit as per CPCB notification, New Delhi, 18th Nov, 2009, for Ambient air quality			100	60	80	80	2
Sampling and Analysis done according to			IS: 5102 (Part-23) -1999	USEPA CFR-40, Part-50, Appendix-L	IS: 5182 (Part-2) -2001	IS: 5182 (Part-6) -2006	IS 5182 : Part.10 1999
Barometric pressure (mm of Hg): 750			Temperature °C: 12-29		Climatic condition: Clear & Sunny		

Checked by: 

For Mitra S. K. Private Limited

  
 Authorised Signatory

A/P O. BARBIL Ward No-6  
Dist. Keonjhar, Odisha - 758005  
CIN: U51909WB1906PTC023037

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W : www.mitrask.com

Ref No./BBL/ENV/2307

Date: 02/01/2021

## CERTIFICATE OF NOISE MONITORING

Name of the Mines : M/s. KHATKURBAHAL LIMESTONE MINES

Address : Khatkurbahal, Kutra, Dist. Sundargarh (Odisha)

SL. NO.	Monitoring Location	Date & Time	Noise Level in dB (A)		
			Ld	Ln	Ldn
1.	Inside Lease Area	22/23.12.2020	58.5	38.3	47.2
2.	Nearest Village	22/23.12.2020	55.3	39.4	43.7

Note : Day Time : 6.00 AM -10.00 PM, Night Time: 10.00PM- 6.00AM

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

AREA CODE	CATEGORY OF AREA / ZONE	LIMITS IN dB (A)	
		DAY TIME	NIGHT TIME
A	INDUSTRIAL AREA	75	70
B	COMMERCIAL AREA	65	55
C	RESIDENTIAL AREA	55	45
D	SILENE ZONE	50	40

Checked by:- 



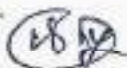
For Mitra S. K. Private Limited

  
Authorised Signatory

**CERTIFICATE OF ANALYSIS**

Name of the Industry :		M/s. KHATKURBAHAL LIMESTONE MINES		
Address:		Khatkurbahal, Kutra, Dist. Sundargarh (Odisha)		
Sampling Location:		Jharis nala Up Steam		
Date of sampling:		22/12/2020		
Sl. No.	Test Parameters	Units	Max. Tolerance Limit as per IS: 2490 and CPCB	Data Recorded from Current Analysis
1	Colour	Hazen	5	<1.0
2	Odour	---	Unobjectionable	Unobjectionable
3	pH at 26°C	---	5.5-9.0	7.96
4	Copper (as Cu)	mg/l	3.0	<0.02
5	Fluoride ( as F )	mg/l	2.0	0.74
6	Free Residual Chlorine	mg/l	1.0	<0.1
7	Iron (as Fe)	mg/l	3.0	0.14
8	Manganese (as Mn)	mg/l	2.0	<0.02
9	Nitrate (as NO <sub>3</sub> )	mg/l	10.0	0.58
10	Phenolic Compounds ( as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	1.0	<0.001
11	Selenium (as Se)	mg/l	0.05	<0.005
12	Cadmium (as Cd)	mg/l	2.0	<0.001
13	Cyanide ( as CN )	mg/l	0.2	<0.01
14	Lead (as Pb )	mg/l	0.1	<0.005
15	Mercury (as Hg)	mg/l	0.01	<0.001
16	Nickel (as Ni )	mg/l	3.0	<0.01
17	Arsenic (as As)	mg/l	0.2	<0.01
18	Total Chromium ( as Cr )	mg/l	2.0	<0.01
19	Zinc (as Zn)	mg/l	5.0	<0.02
20	Hexavalent Chromium (as Cr+6)	mg/l	0.1	<0.01
21	Vanadium as V	mg/l	0.2	<0.2
22	Total Suspended Solid (as TSS)	mg/l	100	3.6
23	Temperature	°C	---	25
24	Dissolved Oxygen	mg/l	---	6.0
25	Biochemical Oxygen Demand (as BOD)	mg/l	30	<2.0
26	Chemical Oxygen Demand (COD)	mg/l	250	<4.0
27	Oil and Grease	mg/l	10	<1.4
28	Ammoniacal Nitrogen (as N)	mg/l	50	<0.1
29	Total Kjeldahl Nitrogen	mg/l	100	0.42
30	Sulphide (as S)	mg/l	2.0	<0.1
31	Free Ammonia	mg/l	5.0	<0.1
32	Particle size of suspended solids	---	850 µm IS Sieve	Pass 850 µm IS Sieve
33	Dissolved Phosphate (as P)	mg/l	5	<0.05
34	Bio-assay	---	90% survival in 100% effluent	90% survival in 100% effluent

Checked by:-




For Mitra S. K. Private Limited

Authorized Signatory