



CIN : L26942OR1985PLC001857

SHIVA CEMENT LIMITED

P-25, CIVIL TOWNSHIP
ROURKELA-769004
ODISHA, INDIA

SCL/6000-08

09.12.2020

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 November-2020.

Dear Sir,

Please find attached herewith the Environment Monitoring Report for the month of November-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

Phone : (Off.) 0661-2400828, 2400168, Fax : 0661-2400172

• Works : Village : Telegana, P.O. : Biringakoli, Kulra, Dist. : Sundargarh, Odisha - 770018

Phone : 06824-245005, E-mail id : corporate@shivacement.com

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

At the request of:

M/s. KHATKURBAHAL LIMESTONE MINES
Khatkurbahal, P.O. – Kutra, Dist.- Sundardarb
(Odisha)

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 - 758035
 CIN: U51909WB1958PTC023037

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 W : www.mitrask.com

Ref. No. BBL/ENV/2242

DATE: 03/12/2020

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 ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1	19/20.11.2020	Office Site (South)	57.3	31.2	6.8	20.7	0.35
2	19/20.11.2020	Mining Site (South)	59.4	32.1	6.6	20.4	0.32
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: 5182 (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: 17-34		Climatic condition: Clear & Sunny		

Checked by:- 



For Mitra S. K. Private Limited


Authorised Signatory

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Ref No./BBL/ENV/2243

Date: 03/12/2020

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	19/20.11.2020	50.2	38.7	46.8
2.	Nearest Village	19/20.11.2020	54.9	39.1	43.3

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

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Ref. No. BBL/ENV/2244

Date:03/12/2020

CERTIFICATE OF ANALYSIS

Name of the industry :		M/s. KHATKURBAHAL LIMESTONE MINES		
Address:		Khatkurbahal, Kurra, Dist. Sundargarh (Odisha)		
Sampling Location:		Jharla nala Up Stream		
Date of sampling:		20/11/2020		
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 25°C	---	5.5-9.0	8.13
4	Copper (as Cu)	mg/l	3.0	<0.02
5	Fluoride (as F)	mg/l	2.0	0.72
6	Free Residual Chlorine	mg/l	1.0	<0.1
7	Iron (as Fe)	mg/l	3.0	0.17
8	Manganese (as Mn)	mg/l	2.0	<0.02
9	Nitrate (as NO ₃)	mg/l	10.0	0.52
10	Phenolic Compounds (as C ₆ H ₅ 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	3.7
23	Temperature	°C	---	25
24	Dissolved Oxygen	mg/l	---	6.1
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	0.47
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

Ref. No.BBL/ENV/2245

Date: 03/12/2020

GROUND WATER LEVEL MONITORING

Name of the industry:	M/s. KHATKURBAHAL LIMESTONE MINES	
Address:	Khatkurbahal, Kutra, Dist. Sundargarh (Odisha)	
Date of Monitoring	Location	Water Level below (in meters)
20.11.2020	Well at Village Site	4.7

Checked by:



For Mitra S. K. Private Limited


Authorised Signatory