



GLOBAL TECH. ENVIRO EXPERTS PVT. LTD.

(FORMERLY GLOBAL EXPERTS)

An ISO-9001:2008 Certified Company

C-23, BJB Nagar,
Bhubaneswar-751014
Ph.: 0674-2436853
Fax:- 0674-2433487
E-mail- globalexerts@rediffmail.com
globalexperts@gmail.com
consult@globalexerts.in
visit us: www.globaltechenvexp.com

AMBIENT AIR QUALITY RESULTS

Name of Industry & Address : M/s. Khatkurbahal Limestone Mines
Khatkurbahal, Kutra, Sundargarh
Date of Monitoring : 28-05-18
Date of Analysis : 30-05-18
Reference No. : AAQ-05/ 05/18

Pollutant	Concentration in Ambient Air		NAAQS 2009 in $\mu\text{g}/\text{m}^3$	Protocol	Instrument used and Method of Measurement
	Office Site (South)	Mining Site (North)			
	1	2			
Particulate Matter (PM_{10})	71.0	74.0	100	IS : 5182(Pt 23)	Fine Particulate Sampler SLE/FPS 105 and Gravimetric
Particulate Matter ($\text{PM}_{2.5}$)	33.8	35.9	60	EPA Guideline	Fine Particulate Sampler SLE/FPS 105 and Gravimetric
Sulfur Dioxide (SO_2)	6.7	8.1	80	IS : 5182(Pt 2)	Spectropho- tometric Analysis (West- Gaeke Method)
Oxides of Nitrogen (NO_x)	11.3	12.9	80	IS : 5182(Pt 6)	Jacob & Hochheiser Modified(Na-Arsenite) Method
Carbon Monoxide(CO)	412	514	4000	NDIR	Non dispersive Infrared Spectrometry

For Global Tech Enviro Experts Pvt. Ltd.

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AMBIENT NOISE MONITORING RESULTS

Name of Industry & Address : M/s. Khatkurbahal Limestone Mines
Khatkurbahal, Kutra, Sundargarh
Date of Monitoring : 28-05-18
Reference No. : N-02/05/ 18

Location	Noise Level in dB (A)		
	Ld	Ln	Ldn
Office Site (South)	57	48.8	55.6
Mining Site (North)	69.2	57.6	67.6
CPCB Standard(Industrial)	75	70	
Methodology	SLM 100 Envirotech	SLM 100 Envirotech	

Noise level in Day time - (6.00am - 10.00 pm)
Noise level in Night time - (10.00pm - 6.00 am)

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GROUND WATER LEVEL MONITORING REPORT

Name of Industry & Address : M/s SHIVA CEMENT LIMITED Teleghana, Kutra, Sundargarh
Date of Monitoring : 28-05-18
Reference No. : GWL-05 / 05 /18

SL NO	LOCATION (Village)	MP to GL(m)	TDBMP(m)	WLBGL(M)	GLAMSL(m)	WLAMSL(m)
1	Mines	0.5	9.32	9.82	234.39	225.07

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

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visit us: www.globaltechenvexp.com

GROUND WATER MONITORING REPORT (MINING SITE)

Name of Industry & Address	:	M/s SHIVA CEMENT LIMITED Teleghana, Kutra, Sundargarh
Date of Monitoring	:	28-05-18
Date of Analysis	:	30-05-18
Reference No.	:	N-35 /05/18

Sl. No.	Parameters	Unit	Desirable Limits as per IS:10500 (Max)	Permissible	Result	Protocol
1.	pH	-	6.5 – 8.5	No Relax	7.9	IS3025:PART11:1983
2.	Colour	Hazen	5	25	1.8	IS3025:PART04:1983
3.	Odour	Un Objectionable	UO	Un objectionable	UO	IS3025:PART05:1983
4.	Taste		Agreeable	-	Agreeable	IS3025:PART 7&8::1984
5.	Turbidity	NTU	5	10	2.6	IS3025:PART10:1984
6.	Total Dissolved Solid	mg/l	500	2000	160.2	IS3025:PART16:1984
7.	Alkalinity (as CaCO ₃)	mg/l	200	600	58.4	IS3025:PART23:1986
8.	Total Hardness as CaCO ₃	mg/l	300	1000	137.6	IS3025:PART21:1983
9.	Iron as Fe	mg/l	0.03	1.0	<0.001	IS3025:PART53:2003
10.	Chloride as Cl	mg/l	250	1000	32.2	IS3025:PART32:1988
11.	Residual Chlorine	mg/l	0.2	-	<0.001	IS3025:PART26:1986
12.	Calcium as Ca	mg/l	75	200	48.8	IS3025:PART40:1991
13.	Magnesium as Mg	mg/l	30	100	36.2	IS3025:PART46:1994
14.	Copper as Cu	mg/l	0.05	1.5	0.001	IS3025:PART42:1992
15.	Manganese as Mn	mg/l	0.1	0.3	<0.001	IS3025:PART35:1964
16.	Sulphate as SO ₄	mg/l	200	400	24.9	IS3025:PART24:1986
17.	Nitrate as NO ₃ -N	mg/l	45	No Relax	1.23	IS3025:PART34:1988
18.	Fluoride as F	mg/l	1	1.5	0.28	IS3025:PART23:1964
19.	Phenolic Compound C ₆ H ₅ OH	mg/l	0.001	0.002	<0.001	IS3025:PART54:1964
20.	Mercury as Hg	mg/l	0.001	No Relax	<0.001	IS3025:PART48:1994
21.	Cadmium as Cd	mg/l	0.01	No Relax	0.003	IS3025:PART41:1992
22.	Selenium as Se	mg/l	0.01	No Relax	<0.001	IS3025:PART56:2003
23.	Arsenic as As	mg/l	0.01	No Relax	0.002	IS3025:PART37:1988
24.	Cyanide as CN	mg/l	0.05	No Relax	<0.001	IS3025:PART27:1986
25.	Lead as Pb	mg/l	0.05	No Relax	<0.001	IS3025:PART47:1994
26.	Zinc as Zn	mg/l	5	15	0.002	IS3025:PART49:1991
27.	Anionic Detergent as MBAS	mg/l	0.2	1	<0.001	Annex K of IS 13428:2005
28.	Chromium as Cr ⁺⁶	mg/l	0.05	No Relax	<0.001	IS3025:PART52:2003
29.	Mineral Oil	mg/l	0.01	0.03	<0.001	IS3025:PART39:2003
30.	Aluminium as Al	mg/l	0.03	0.2	0.004	IS3025:PART55:2003
31.	Boron as B	mg/l	1	5	0.002	Annex H of IS13428: 2005
32.	Total Coliforms	MPN/100ml	-	10/100ml	Absent	IS 1622:1981(Reaff 2003)
33.	E.Coli	MPN/100ml	-	Abs/100 ml	Absent	IS 1622:1981(Reaff 2003)
34.	Faecal Coliforms	MPN/100ml	-	Abs/100 ml	Absent	IS 1622:1981(Reaff 2003)

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