



GLOBAL TECH. ENVIRO EXPERTS PVT. LTD.
(FORMERLY GLOBAL EXPERTS)
An ISO-9001:2008 Certified Company

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STACK MONITORING RESULT

Name of Industry & Address	:	M/s SHIVA CEMENT LIMITED Teleghana, Kutra, Sundargarh
Stack Pattern	:	Circular
Date of Monitoring	:	21-12-15
Date of Analysis	:	23-12-15
Reference No.	:	Stk-47/ 15

Sl. No.	Parameters	(Result)				Protocols
		Cement Mill	Kiln	Coal Mill	Raw Material Mill	
1	Particulate Matter (PM) in mg/Nm ³ .	81.4	89.3	84.7	78.6	IS:11255 (Pt 1)
2	Flue Gas Temperature (°C) T _s	24.1	104.6	22.9	23.4	IS:11255 (Pt 3)
3	Flue Gas Velocity (m/s)	4.9	5.5	4.8	4.8	IS:11255 (Pt 3)
4	Ambient Temperature (T _a)	21.3	22.6	21.1	21.4	-
5	Height of H ₂ O Column in mm	2.14	2.12	2.08	2.04	-
6	Carbon Monoxide (CO) in ppm	-	317	-	-	IS:13270/GC
7	Carbon Dioxide (CO ₂) in %	-	6.8	-	-	IS:13270/GC
8	Oxygen (O ₂) in %	-	14.1	-	-	Orsat Apparatus
9	Sulfur Dioxide (SO ₂) in ppm	-	93	-	-	IS:11255 (Pt 2)
10	Oxides of Nitrogen (NO _x) in ppm	-	80	-	-	IS:11255 (Pt 7)

Sampling Instrument : Stack Monitoring Kit VSS-I & Flue Gas Analyzer (Quintox)

Permissible Standard for PM: 150 mg/ Nm³.

For Global Tech Enviro Experts Pvt. Ltd.

(Authorised Signatory)