

**GLOBAL TECH. ENVIRO EXPERTS PVT. LTD.**

(FORMERLY GLOBAL EXPERTS)

An ISO-9001:2008 Certified Company

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Name of Industry & Address : M/s SHIVA CEMENT LIMITED
Teleghana, Kutra, Sundargarh

Stack Pattern : Circular

Date of Monitoring : 28-01-16

Date of Analysis : 30.01.16

Reference No. : Stk-52/ 15

Sl. No.	Parameters	(Result)				Protocols
		Cement Mill	Kiln	Coal Mill	Raw Material Mill	
1	Particulate Matter (PM) in mg/Nm ³ .	83.9	78.7	81.5	82.4	IS:11255 (Pt 1)
2	Flue Gas Temperature (°C) T _s	25.8	102.3	20.9	21.2	IS:11255 (Pt 3)
3	Flue Gas Velocity (m/s)	5.2	5.6	4.9	4.8	IS:11255 (Pt 3)
4	Ambient Temperature °C (T _a)	20.2	21.8	20.4	20.1	-
5	Height of H ₂ O Column in mm	2.34	2.21	2.13	2.09	-
6	Carbon Monoxide (CO) in ppm	-	267	-	-	IS:13270/GC
7	Carbon Dioxide (CO ₂) in %	-	7.1	-	-	IS:13270/GC
8	Oxygen (O ₂) in %	-	13.5	-	-	Orsat Apparatus
9	Sulfur Dioxide (SO ₂) in ppm	-	82	-	-	IS:11255 (Pt 2)
10	Oxides of Nitrogen (NO _x) in ppm	-	73	-	-	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)