



# GLOBAL TECH. ENVIRO EXPERTS PVT. LTD.

(FORMERLY GLOBAL EXPERTS)  
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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 : 21.03.16

Date of Analysis : 24.03.16

Reference No. : Stk-59/15

Sl. No.	Parameters	(Result)				Protocols
		Cement Mill	Kiln	Coal Mill	Raw Material Mill	
1	Particulate Matter (PM) in mg/Nm <sup>3</sup> .	83.8	91.7	79.4	81.9	IS:11255 (Pt 1)
2	Flue Gas Temperature (°C) T <sub>s</sub>	41.3	109.6	40.8	41.1	IS:11255 (Pt 3)
3	Flue Gas Velocity (m/s)	3.8	5.9	3.8	4.5	IS:11255 (Pt 3)
4	Ambient Temperature °C (T <sub>a</sub> )	40.9	41.6	40.2	40.6	-
5	Height of H <sub>2</sub> O Column in mm	1.18	2.36	1.23	1.72	-
6	Carbon Monoxide (CO) in ppm	-	86	-	-	IS:13270/GC
7	Carbon Dioxide (CO <sub>2</sub> ) in %	-	8.2	-	-	IS:13270/GC
8	Oxygen (O <sub>2</sub> ) in %	-	13.4	-	-	Orsat Apparatus
9	Sulfur Dioxide (SO <sub>2</sub> ) in ppm	-	132	-	-	IS:11255 (Pt 2)
10	Oxides of Nitrogen (NO <sub>x</sub> ) in ppm	-	47	-	-	IS:11255 (Pt 7)

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

Permissible Standard for PM: 150 mg/ Nm<sup>3</sup>.

For Global Tech Enviro Experts Pvt. Ltd.

(Authorised Signatory)