

**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 : 30-05-16  
Date of Analysis : 01-06-16  
Reference No. : Stk-07/16

Sl. No.	Parameters	(Result)				Protocols
		Cement Mill	Kiln	Coal Mill	Raw Material Mill	
1	Particulate Matter (PM) in mg/Nm <sup>3</sup> .	81.6	78.2	69.7	71.4	IS:11255 (Pt 1)
2	Flue Gas Temperature (°C) T <sub>s</sub>	45.2	104.6	43.7	44.1	IS:11255 (Pt 3)
3	Flue Gas Velocity (m/s)	4.1	5.9	4.0	4.1	IS:11255 (Pt 3)
4	Ambient Temperature °C (T <sub>a</sub> )	41.2	41.8	40.5	39.9	-
5	Height of H <sub>2</sub> O Column in mm	1.42	2.41	1.37	1.41	-
6	Carbon Monoxide (CO) in ppm	-	28	-	-	IS:13270/GC
7	Carbon Dioxide (CO <sub>2</sub> ) in %	-	6.2	-	-	IS:13270/GC
8	Oxygen (O <sub>2</sub> ) in %	-	14.9	-	-	Orsat Apparatus
9	Sulfur Dioxide (SO <sub>2</sub> ) in ppm	-	87	-	-	IS:11255 (Pt 2)
10	Oxides of Nitrogen (NO <sub>x</sub> ) in ppm	-	43	-	-	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)