



# 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](mailto:globalexerts@rediffmail.com)  
[globalexerts@gmail.com](mailto:globalexerts@gmail.com)  
[consult@globalexerts.in](mailto:consult@globalexerts.in)  
visit us [www.globalexerts.in](http://www.globalexerts.in)

## STACK MONITORING RESULT

|                            |   |  |
|----------------------------|---|--|
| Name of Industry & Address | : | M/s SHIVA CEMENT LIMITED<br>Teleghana, Kutra, Sundargarh |
| Stack Pattern              | : | Circular   |
| Date of Monitoring         | : | 24-08-15   |
| Date of Analysis           | : | 26-08-15   |
| Reference No.              | : | Stk-24/ 15   |

| Sl. No. | Parameters                                      | (Result)    |       |           |                   | Protocols       |
|---------|---|-------------|-------|-----------|-------------------|-----------------|
|         |   | Cement Mill | Kiln  | Coal Mill | Raw Material Mill |                 |
| 1       | Particulate Matter (PM) in mg/Nm <sup>3</sup> . | 79.4        | 80.7  | 78.1      | 83.5              | IS:11255 (Pt 1) |
| 2       | Flue Gas Temperature (°C) T <sub>s</sub>        | 36.1        | 104.3 | 32.9      | 32.5              | IS:11255 (Pt 3) |
| 3       | Flue Gas Velocity (m/s)                         | 4.1         | 5.5   | 4.6       | 4.6               | IS:11255 (Pt 3) |
| 4       | Ambient Temperature (T <sub>a</sub> )           | 30.2        | 30.8  | 30.3      | 29.9              | -               |
| 5       | Height of H <sub>2</sub> O Column in mm         | 1.46        | 2.17  | 1.78      | 1.81              | -               |
| 6       | Carbon Monoxide (CO) in ppm                     | -           | 81    | -         | -                 | IS:13270/GC     |
| 7       | Carbon Dioxide (CO <sub>2</sub> ) in %          | -           | 9.3   | -         | -                 | IS:13270/GC     |
| 8       | Oxygen (O <sub>2</sub> ) in %                   | -           | 11.9  | -         | -                 | Orsat Apparatus |
| 9       | Sulfur Dioxide (SO <sub>2</sub> ) in ppm        | -           | 11    | -         | -                 | IS:11255 (Pt 2) |
| 10      | Oxides of Nitrogen (NO <sub>x</sub> ) in ppm    | -           | 27    | -         | -                 | 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)