



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
globalexerts@gmail.com
consult@globalexerts.in
visit us: www.globalexerts.in

STACK MONITORING RESULT

| | | |
|----------------------------|---|--|
| Name of Industry & Address | : | M/s SHIVA CEMENT LIMITED Teleghana, Kutra, Sundargarh |
| Stack Pattern | : | Circular |
| Date of Monitoring | : | 27-04-15 |
| Date of Analysis | : | 29-04-15 |
| Reference No. | : | Stk-04 / 15 |

| Sl. No. | Parameters | (Result) | | | | Protocols |
|---------|---|-------------|-------|-----------|-------------------|-----------------|
| | | Cement Mill | Kiln | Coal Mill | Raw Material Mill | |
| 1 | Particulate Matter (PM) in mg/Nm ³ . | 88.7 | 90.3 | 87.5 | 89.2 | IS:11255 (Pt 1) |
| 2 | Flue Gas Temperature (°C) T _s | 40.9 | 107.3 | 43.6 | 40.8 | IS:11255 (Pt 3) |
| 3 | Flue Gas Velocity (m/s) | 4.0 | 5.3 | 3.6 | 3.7 | IS:11255 (Pt 3) |
| 4 | Ambient Temperature (T _a) | 38.6 | 39.8 | 37.9 | 37.2 | - |
| 5 | Height of H ₂ O Column in mm | 1.37 | 1.96 | 1.09 | 1.03 | - |
| 6 | Carbon Monoxide (CO) in ppm | - | 114 | - | - | IS:13270/GC |
| 7 | Carbon Dioxide (CO ₂) in % | - | 9.7 | - | - | IS:13270/GC |
| 8 | Oxygen (O ₂) in % | - | 11.8 | - | - | Orsat Apparatus |
| 9 | Sulfur Dioxide (SO ₂) in ppm | - | 07 | - | - | IS:11255 (Pt 2) |
| 10 | Oxides of Nitrogen (NO _x) in ppm | - | 47 | - | - | 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)