



**GLOBAL EXPERTS**  
(A Techno-Enviro. Consultant)  
An ISO-9001:2008 Certified Company

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### AMBIENT AIR QUALITY RESULTS


|                            |   |  |
|----------------------------|---|--|
| Name of Industry & Address | : | M/s SHIVA CEMENT LIMITED<br>Teleghana, Kutra, Sundargarh |
| Date of Monitoring         | : | 19-01-2015   |
| Date of Analysis           | : | 21-01-2015   |
| Reference No.              | : | Air-56/ 14   |

| Pollutant                               | Concentration in Ambient Air |                 |           | Protocol         | Instrument used and Method of Measurement            |
|---|------------------------------|-----------------|-----------|------------------|--|
|   | Main Gate                    | Office Building | Kiln Site |                  |  |
|   | 1                            | 2               | 3         |                  |  |
| Particulate Matter (PM <sub>10</sub> )  | 78.7                         | 85.3            | 90.1      | IS : 5182(Pt 23) | Fine Particulate Sampler SLE/FPS 105 and Gravimetric |
| Particulate Matter (PM <sub>2.5</sub> ) | 45.9                         | 50.2            | 52.7      | EPA Guideline    | Fine Particulate Sampler SLE/FPS 105 and Gravimetric |
| Sulfur Dioxide (SO <sub>2</sub> )       | 12.3                         | 12.6            | 13.1      | IS : 5182(Pt 2)  | Spectrophotometric Analysis (West-Gaeke Method)      |
| Oxides of Nitrogen (NO <sub>x</sub> )   | 14.8                         | 13.9            | 14.1      | IS : 5182(Pt 6)  | Jacob & Hochheiser Modified(Na-Arsenite) Method      |
| Carbon Monoxide(CO)                     | 429                          | 402             | 448       | NDIR             | Non dispersive Infrared Spectrometry                 |

Units: PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> & CO all in µg/m<sup>3</sup>

Permissible Standard) :  
100 µg/m<sup>3</sup> (for PM<sub>10</sub>)  
60 µg/m<sup>3</sup> (for PM<sub>2.5</sub>)  
80 µg/m<sup>3</sup> (for SO<sub>2</sub> & NO<sub>x</sub>)  
4000 µg/m<sup>3</sup> (for CO)

For GLOBAL EXPERTS

  
(Authorised Signatory)