



Last Up Dated On: - DEC` 2016

INDIA

ARASMETA CEMENT PLANT OF M/S LAFARGE INDIA LTD.  
VILLAGE ARASMETA, PO- GOPALNAGAR, DISTT.  
JANJGIR - CHAMPA, CHHATTISGARH

**CONSENT TO OPERATE**

**PLANT:-** AIR Consent Letter No. 5204//TS/CECB/2016 dated 28/01/2016 for Cement 22.4 Lacs MT/Annum  
Water Consent Letter No. 5202//TS/CECB/2016 dated 28/01/2016 for Cement 22.4 Lacs MT/Annum

**D.G Set:-** AIR Consent Letter No. 3386//TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW.  
Water Consent Letter No. 3384//TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW

**Monitoring Data For the Month of Nov` 2016****A. Stack Emission – Consent Condition for Particulate matter -Max. 50 mg/NM<sup>3</sup>**

| S.N. | Stack Attached to  | PCEs          | Particulate Matter (Mg/Nm <sup>3</sup> ) |
|------|--------------------|---------------|--|
| 1    | KILN & RAW MILL -1 | Bag Filter    | 24.0                                     |
| 2    | PC & RAW MILL -2   | Bag Filter    | 27.1                                     |
| 3    | COOLER             | ESP           | 29.1                                     |
| 4    | COAL MILL -1       | Bag Filter    | 24.8                                     |
| 5    | COAL MILL -2       | Bag Filter    | 24.6                                     |
| 6    | CEMENT MILL -1     | Bag Filter -1 | 29.9                                     |
| 7    | CEMENT MILL -1     | Bag Filter -2 | 27.6                                     |
| 8    | CEMENT MILL -2     | ESP           | 25.1                                     |
| 9    | CEMENT MILL -2     | Bag Filter    | 24.6                                     |
| 10   | DG-3               | -             | NR                                       |
| 11   | DG-4               | -             | NR                                       |
| 12   | DG-5               | -             | NR                                       |

SD-Shut down, NR- Not running

**B. Ambient Air Quality –**

| Pollutants                   | Ambient Air Quality ( Monthly Average) |                           |                                |                                 |                                |
|------------------------------|--|---------------------------|--------------------------------|---------------------------------|--------------------------------|
|                              | LOCATION                               |                           |                                |                                 |                                |
|                              | NAAQ STD.                              | Near Wagon Tippler - East | Near Main Security Gate - West | Near Rail way TXR Office -North | Near Old Truck Tippler - South |
| PM10 (µg/m3)                 | 100                                    | 57.0                      | 60.0                           | 55.0                            | 49.0                           |
| PM2.5 (µg/m3)                | 60                                     | 30.0                      | 29.0                           | 30.0                            | 25.0                           |
| Sulphur Dioxide SO2 (µg/m3)  | 80                                     | 7.8                       | 7.9                            | 6.8                             | 6.4                            |
| Nitrogen Dioxide NO2 (µg/m3) | 80                                     | 10.1                      | 10.4                           | 8.7                             | 8.3                            |
| Carbon Monoxide CO (mg/m3)   | 4                                      | 0.14                      | 0.16                           | 0.12                            | 0.12                           |


**C- Discharge Water Quality:**

Cement plant maintained Zero Discharge, for cooling water close circuit arrangement, Plant domestic water discharge through Sock pit. Sewage Treatment Plant installed in colony for treatment of Domestic wastewater, Treated water used for Horticulture purpose.

**Quality of Treated water of STP:**

| S.N. | Pollutants                     | Monthly average Results | CECB Standard (Max) |
|------|--------------------------------|-------------------------|---------------------|
| 1    | pH                             | 7.6                     | 5.5 - 9.0           |
| 2    | Suspended Solids               | 83                      | 100 mg/Ltr.         |
| 3    | Chemical Oxygen Demand (COD)   | 56                      | 250 mg/Ltr          |
| 4    | Biological Oxygen Demand (BOD) | 8                       | 30 mg/Ltr           |
| 5    | Oil& Grease                    | <5                      | 10 mg/Ltr           |

For Lafarge India Limited,  
(Arasmeta Cement Plant)

  
(Ramesh Chandra Pathak)  
Vice President