

Ambuja Cement

STACK EMISSION MONITORING RESULTS (JULY 2016) (Monthly Average Value)

| Sr. No. | Stack Attached To | Particulate Matter (mg/Nm ³) |
|---------|----------------------------------|--|
| 1 | Cement Mill Bag House | 7.98 |
| 2 | D.G. Set | Not Operated |
| 3 | Clinker Dump Hopper-1 Bag Filter | 12.13 |
| 4 | Clinker Dump Hopper-2 Bag Filter | 10.88 |
| 5 | Packing Plant -1 Bag Filter | 12.52 |
| 6 | Packing Plant -2 Bag Filter | 14.08 |

AMBIENT AIR MONITORING RESULTS (JULY 2016) (Monthly Average Values)

| Stations | Respirable Suspended Particulate Matter (µg/M ³) | | Gaseous Emission (µg/M ³) | |
|---|--|-------|---------------------------------------|-----------------|
| | PM10 | PM2.5 | SO ₂ | NO _x |
| Station No. 1 (Labour Hutment towards Jajhra) | 49.5 | 13.96 | 7.2 | 10.8 |
| Station No. 2 (Rain Water Harvesting) | 51.5 | 13.46 | 7.9 | 11.6 |
| Station No. 3 (Rooftop of Adm. Block) | 52.6 | 16.31 | 7.5 | 11.1 |
| Station No. 4 (Rooftop of Guest House) | 48.4 | 14.04 | 7.0 | 10.4 |
| Station No. 5 (Near Nursery towards Pater Phaloo) | 44.7 | 15.50 | 7.8 | 11.4 |
| Station No. 6 (STP- Towards Ratyor) | 45.9 | 15.12 | 7.6 | 11.9 |

TREATED SEWAGE WATER QUALITY (JULY 2016) (Monthly Average Values)

| Parameters | Units | STP1 Inside Plant | | | STP2 Outside Plant | | |
|---------------------|--------|-------------------|---------------|---------|--------------------|---------------|---------|
| | | Minimum Value | Maximum Value | Average | Minimum Value | Maximum Value | Average |
| pH | - | 8 | 8.5 | - | 8.5 | 9.0 | - |
| TSS | Mg/lt. | 25 | 40 | 35 | 40 | 60 | 51 |
| BOD _{5day} | Mg/lt. | 8 | 16 | 10.4 | 12 | 22 | 16.8 |
| COD | Mg/lt. | 40 | 80 | 52 | 40 | 80 | 72 |

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ONLINE AMBIENT AIR QUALITY & STACK EMISSION MONITORING RESULTS - (JULY 2016)

| Date | CAAQMS Data | | | | | Stack Emission Data |
|------------|---------------|----------------|------------|-------------------------|-------------|--------------------------|
| | PM 10 (ug/m3) | PM 2.5 (ug/m3) | CO (ug/m3) | SO ₂ (ug/m3) | Nox (ug/m3) | PM Concentration (mg/M3) |
| 01/07/2016 | 33.7 | 10.31 | 0.41 | 7.39 | 13.18 | 1.01 |
| 02/07/2016 | 22.48 | 7.22 | 0.47 | 8.82 | 12.8 | 2.3 |
| 03/07/2016 | 20.07 | 12.98 | 0.48 | 8.83 | 12.26 | 3.22 |
| 04/07/2016 | 22.53 | 6.97 | 0.49 | 7.89 | 12.49 | 1.88 |
| 05/07/2016 | 40.08 | 12.45 | 0.49 | 6.78 | 13.02 | 0.73 |
| 06/07/2016 | 33.47 | 9.69 | 0.47 | 6.98 | 13.97 | 3.66 |
| 07/07/2016 | 47.7 | 16.32 | 0.44 | 8.89 | 12.94 | 0.91 |
| 08/07/2016 | 57.44 | 17.13 | 0.44 | 9.19 | 13.77 | 3.42 |
| 09/07/2016 | 39.46 | 12.34 | 0.54 | 9.36 | 12.66 | 1.03 |
| 10/07/2016 | 41.87 | 11.84 | 0.47 | 9.34 | 13.12 | 0.92 |
| 11/07/2016 | 34.51 | 14.42 | 0.47 | 9.38 | 11.31 | 2.69 |
| 12/07/2016 | 20.82 | 6.67 | 0.51 | 12.02 | 11.66 | 0.96 |
| 13/07/2016 | 26.15 | 8.39 | 0.5 | 33.09 | 12.42 | 3.5 |
| 14/07/2016 | 24.44 | 7.83 | 0.5 | 92.95* | 11.72 | 3.35 |
| 15/07/2016 | 30.85 | 9.21 | 0.49 | 72.43* | 12.18 | 1.01 |
| 16/07/2016 | 32.47 | 10.49 | 0.52 | 57.76* | 11.83 | 2.84 |
| 17/07/2016 | 21.8 | 6 | 0.47 | 51.99* | 11.73 | 1.57 |
| 18/07/2016 | 30.57 | 8.09 | 0.49 | 44.65 | 11.83 | 1.48 |
| 19/07/2016 | 35.29 | 9.33 | 0.46 | 38.44 | 12.1 | 2.54 |
| 20/07/2016 | 49.36 | 11.42 | 0.52 | 36.39 | 13.28 | 0.97 |
| 21/07/2016 | 55.43 | 13.57 | 0.51 | 29.39 | 12.41 | 2.3 |
| 22/07/2016 | 53.21 | 13.84 | 0.37 | 15.98 | 11.38 | 1.36 |
| 23/07/2016 | 41.51 | 12.27 | 0.58 | 11.98'* | 10.49 | 3.24 |
| 24/07/2016 | 133.12* | 11.02 | 0.36 | 4.66 | 10.1 | 1.51 |
| 25/07/2016 | 192.63* | 14.6 | 0.42 | 3.47 | 10.38 | 1 |
| 26/07/2016 | 234.07* | 12.16 | 0.64 | -8.08 | 9.64 | 2.65 |
| 27/07/2016 | 22.73 | 4.67 | 0.88 | -31.68 | 9.56 | 1.17 |
| 28/07/2016 | 34.91 | 5.22 | 0.58 | -34.55 | 11.01 | 3.29 |
| 29/07/2016 | 38.59 | 6.6 | 0.31 | -33.96 | 10.44 | 1.71 |
| 30/07/2016 | 26.38 | 5.11 | 0.28 | -33.76 | 9.85 | 1.43 |
| 31/07/2016 | 36.12 | 5.44 | 0.17 | -35.88 | 10.05 | 4.41 |

* - PM 10 Analyser Problem, Problem in SO2 Analyser

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Ambuja

Cement

HEAVY METAL MONITORING IN AMBIENT AIR QUALITY (JULY 2016)

| Stations | Parameters | | |
|---|-----------------------------|------------------------------|---------------------------|
| | Nickel (ng/M ³) | Arsenic (ng/M ³) | Lead (µg/M ³) |
| Station No. 1 (Labour Hutment towards Jajhra) | ND | ND | ND |
| Station No. 2 (Rain Water Harvesting) | ND | ND | ND |
| Station No. 3 (Rooftop of Adm. Block) | ND | ND | ND |
| Station No. 4 (Rooftop of Guest House) | ND | ND | ND |
| Station No. 5 (Near Nursery towards Pater Phaloo) | ND | ND | ND |
| Station No. 6 (STP- Towards Ratyor) | ND | ND | ND |

ND – Not Detected.