

Ambuja Cement

STACK EMISSION MONITORING RESULTS (JANUARY 2014) (Average Value)

| Sr. No. | Stack Attached To | Particulate Matter (mg/Nm ³) |
|---------|----------------------------------|--|
| 1 | Cement Mill Bag House | 9.31 |
| 2 | D.G. Set | Not Operated |
| 3 | Clinker Dump Hopper-1 Bag Filter | 12.77 |
| 4 | Clinker Dump Hopper-2 Bag Filter | 13.85 |
| 5 | Packing Plant -1 Bag Filter | 13.56 |
| 6 | Packing Plant -2 Bag Filter | 12.99 |

AMBIENT AIR MONITORING RESULTS (JANUARY 2014) (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 (Near Adm. Office) | 68.8 | 25.15 | 7.1 | 9.4 |
| Station No. 2 (Near Scrap Yard) | 67.5 | 23.20 | 7.5 | 9.8 |
| Station No. 3 (Near MPSS) | 65.4 | 25.12 | 6.9 | 9.3 |
| Station No. 4 (Towards Navagraon) | 66.8 | 24.84 | 8.9 | 11.3 |
| Station No. 5 (Towards Pater Phaloo) | 65.5 | 25.04 | 8.5 | 10.5 |
| Station No. 6 (Towards Ratyor) | 62.2 | 24.77 | 6.8 | 9.5 |

TREATED SEWAGE WATER QUALITY (JANUARY 2014) (Average Values)

| Parameters | Units | Minimum Value | Maximum Value | Average |
|---------------------|--------|---------------|---------------|---------|
| pH | - | 8.0 | 8.5 | - |
| TSS | Mg/lt. | 25 | 35 | 29 |
| BOD _{5day} | Mg/lt. | 12 | 24 | 18 |
| COD | Mg/lt. | 60 | 100 | 76 |

RESULTS OF ONLINE EMISSION MONITOR ATTACHED TO CEMENT MILL STACK (JANUARY 2014)

| PARAMETER | Particulate Matter Concentration | | |
|---|----------------------------------|---------|---------|
| | Minimum | Maximum | Average |
| Particulate Matter Conc. (mg/M ³) | 2 | 30 | 14 |

Ambuja Cements Limited (Unit: Nalagarh)
Village Navagraon, P.O. Jajhra, Tehsil Nalagarh, Distt. Solan (H.P.) 174 101
(Regd. Off.: P.O. Ambujanagar, Taluka Kodinar, Distt. Junagarh, Gujarat – 362 715)

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ONLINE AMBIENT AIR QUALITY MONITORING RESULTS (JANUARY 2014)

| Date | SPM ug/m3 | SPM2^5 ug/m3 | CO mg/m3 | SO2 ug/m3 | NOX ug/m3 |
|------------|--------------|-----------------|-------------|--------------|--------------|
| 01/01/2014 | 39.32 | 9.78 | 0.3 | 7.21 | * |
| 02/01/2014 | 75.16 | 7.62 | 0.2 | 8.86 | 35.72 |
| 03/01/2014 | 68.7 | 43 | 0.3 | 7.55 | 51.62 |
| 04/01/2014 | 172.2 | 48.3 | 0.3 | 7.93 | 77.58 |
| 05/01/2014 | 50.3 | 14 | 0.2 | 8.26 | 66.88 |
| 06/01/2014 | 108.8 | 14.6 | 0.2 | 8.54 | 82.04 |
| 07/01/2014 | * | * | * | * | * |
| 08/01/2014 | * | * | * | * | * |
| 09/01/2014 | 58.05 | 52.11 | 0.2 | 6.4 | 81.71 |
| 10/01/2014 | 41.69 | 24.43 | 0.2 | 7.99 | 66.14 |
| 11/01/2014 | 27.58 | 13.94 | 0.2 | 8.15 | 86.57 |
| 12/01/2014 | 30.28 | 9.11 | 0.2 | 8.09 | 69.79 |
| 13/01/2014 | 38.8 | 11.62 | 0.2 | 8.94 | 75.4 |
| 14/01/2014 | 33.95 | 11.2 | 0.2 | 9.11 | 68.95 |
| 15/01/2014 | 56.97 | 30.82 | 0.2 | 6.79 | 125.53 |
| 16/01/2014 | 31.63 | 15.9 | 0.2 | 6.85 | 99.07 |
| 17/01/2014 | 10.28 | 20.69 | 0.2 | 7.16 | 101 |
| 18/01/2014 | 158.75# | 15.47 | 0.2 | 8.57 | 53.96 |
| 19/01/2014 | 390.2# | 4.86 | 0.2 | 7.93 | 53.4 |
| 20/01/2014 | 250.52# | 8.81 | 0.2 | 8.17 | 72.76 |
| 21/01/2014 | 538.9# | 10.01 | 0.2 | 6.95 | 94.18 |
| 22/01/2014 | 94.32 | 15.96 | 0.2 | 8.39 | 68.19 |
| 23/01/2014 | 24.1 | 9.83 | 0.2 | 7.81 | 62.98 |
| 24/01/2014 | 30.26 | 19.4 | 0.2 | 8.32 | 72.65 |
| 25/01/2014 | 37.8 | 25.32 | 0.2 | 7.8 | 74.53 |
| 26/01/2014 | 52.4 | 26.2 | 0.2 | 8.15 | 64.2 |
| 27/01/2014 | 51.78 | 26.62 | 0.2 | 7.22 | 72.4 |
| 28/01/2014 | 44.5 | 23.88 | 0.2 | 7.97 | 69.3 |
| 29/01/2014 | 76.24 | 37.39 | 0.2 | 7.43 | 107.7 |
| 30/01/2014 | 44.5 | 34.02 | 0.2 | 8.31 | 81.3 |
| 31/01/2014 | 55.04 | 36.82 | 0.2 | 8.74 | 84.63 |

* - System Problem

- Pump not working

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HEAVY METAL MONITORING IN AMBIENT AIR QUALITY (JANUARY 2014)

| Stations | Parameters | | |
|--------------------------------------|-----------------------------|------------------------------|---------------------------|
| | Nickel (ng/M ³) | Arsenic (ng/M ³) | Lead (µg/M ³) |
| Station No. 1 (Near Adm. Office) | ND | ND | ND |
| Station No. 2 (Near Scrap Yard) | ND | ND | ND |
| Station No. 3 (Near MPSS) | ND | ND | ND |
| Station No. 4 (Towards Navagraon) | ND | ND | ND |
| Station No. 5 (Towards Pater Phaloo) | ND | ND | ND |
| Station No. 6 (Towards Ratyor) | ND | ND | ND |

ND – Not Detected.