

MGR/PC/ESR/21

Date: 17.09.2021

To,  
**The Member Secretary**  
Rajasthan State Pollution Control Board  
4, Industrial Area  
Jhalana Doongri  
JAIPUR - 302004 (Raj)

**Subject: Environmental Statement Report for the FY 2020-21 of Mangrol Limestone Mine (ML 26/08) of M/s J. K. Cement Works, Mangrol, Tehsil: Nimbahera, Dist.: Chittorgarh (Rajasthan).**

Ref: F(Mines)/Chittorgarh(Nimbahera) /1863 (1)/2016-2017/7040-7044 Order No.2018-2019/ Mines /9905 Dated: 25/02/2019.

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Mangrol Limestone Mine for the FY 2020-2021 for your reference and record. We trust you will find the same in order.

Thanking You.

Yours Faithfully  
**For J.K. Cement Works, Mangrol**



R. B. M. Tripathi  
President(O) & Unit Head

Encl: as above.

Copy:

**The Regional Officer**, Rajasthan State Pollution Control Board, Near FCI Godown, Chanderiya, Distt. - CHITTORGARH (RAJ)-312021

Corporate Office

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**JK SUPER CEMENT**  
BUILD SAFE

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)  
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

JK CEMENT  
**WallMaxX**  
White Cement Wall Putty



**ENVIRONMENTAL STATEMENT**

**FORM - V**

Environmental Statement for the financial year 2020-21, ending the 31<sup>st</sup> March 2021

**PART-A**

|   |  |
|---|--|
| i. Name an address of the owner/occupier of the industry operation or process | <b>Mangrol Limestone Mine</b><br><b>J.K. Cement Works, Mangrol</b><br>Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan)<br>PIN- 312617 |
| ii. Industry category<br>Primary - (STC Code)<br>Secondary - (STC Code)       | Primary  |
| iii. Cement Production capacity   | Limestone- 1.50 MMTPA  |
| iv. Year of establishment-  | 2012   |
| v. Date of last environmental statement submitted                             | 15 <sup>th</sup> September 2020  |

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

i. **WATER CONSUMPTION** in m3/day

Process : - 80.5 m3/day

Cooling : - Nil

Domestic : - 0.5 m3/day

| Name of products | Process water consumption per unit of products                |  |
|------------------|---|--|
|                  | During the previous financial year<br>(2019-20) (Litres/Unit) | During the current financial<br>year (2020-21) (Litres/Unit) |
| 1. Limestone     | 14.78   | 21.57  |

ii. **RAW MATERIAL CONSUMPTION**

| Name of raw material    | Name of products | Consumption of raw material per unit of output |   |
|-------------------------|------------------|--|---|
|                         |                  | During the previous financial year (2019-20)   | During the current financial year (2020-21) |
| High speed diesel (HSD) | Limestone        | 0.463 liter/MT                                 | 0.4078litre/MT                              |
| Ammonium Nitrate        |                  | 0.0808 kg/MT                                   | 0.0838 kg/MT                                |
| Kelvex-600 (83 mm)      |                  | 0.0096 kg/MT                                   | 0.0109 kg/MT                                |
| Emul boost (125 Gram)   |                  | 0.0003 kg/MT                                   | 0.00018 kg/MT                               |
| Kelvex-P (83 mm)        |                  | 0.0019 kg/MT                                   | 0.00277 kg/MT                               |
| Aquadyne (83 mm)        |                  | 0.0016 kg/MT                                   | 0.00260 kg/MT                               |
| Kelvex-500 (83 mm)      |                  | 0.0111 kg/MT                                   | 0.002500 kg/MT                              |
| Energel (83 mm)         |                  | 0.0017 kg/MT                                   | 0.00601 kg/MT                               |

**PART-C**

**POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT**

| Pollutants                                | Quantity of pollutants discharged (Ton/Day) | Concentration of pollutants in discharge (Mass/Volume) | Percentage of variation from prescribed standards with reasons |             |            |
|---|---|--|--|-------------|------------|
| (a) Water                                 | NIL   |  |  |             |            |
| (b) Ambient Air Emission (yearly average) |   |  |  |             |            |
| Location                                  | Parameters                                  |  |  |             |            |
|   | PM10 (µg/m3)                                | PM2.5 (µg/m3)  | SO2 (µg/m3)  | NOx (µg/m3) | CO (mg/m3) |
| Towards Factory Gate                      | 50.5  | 37.9   | 16.4   | 25.4        | 550.6      |
| Near Ravana Office                        | 59.6  | 40.1   | 15.7   | 25.6        | 652.3      |



### Noise level monitoring data

| Month  | Towards Factory Gate                                |            | Near Ravana Office |            |
|--------|---|------------|--------------------|------------|
|        | NOISE LEVEL dB(A)                                   |            |                    |            |
|        | Day Time  | Night Time | Day Time           | Night Time |
| Apr-20 | 'Mine was not in operation due to Covid-19 lockdown |            |                    |            |
| May-20 |   |            |                    |            |
| Jun-20 | 57.8  | 51.6       | 65.4               | 60.1       |
| Jul-20 | 56.4  | 50.7       | 64.2               | 59.3       |
| Aug-20 | 57.6  | 51.3       | 65.8               | 60.5       |
| Sep-20 | 58.3  | 52.1       | 66.4               | 61.7       |
| Oct-20 | 57.2  | 51.0       | 66.0               | 59.1       |
| Nov-20 | 56.8  | 52.3       | 67.1               | 60.3       |
| Dec-20 | 57.9  | 53.1       | 68.6               | 60.8       |
| Jan-21 | 60.4  | 54.7       | 66.7               | 59.8       |
| Feb-21 | 59.6  | 56.6       | 63.3               | 57.3       |
| Mar-21 | 55.2  | 50.3       | 62.6               | 54.5       |

### PART-D

(As specified under Hazardous Waste & Other waste Management rules-2016)

| Hazardous waste                       | Total Quantity                                |   |
|---------------------------------------|---|---|
|                                       | During previous financial year (2019-20) (KL) | During current financial year (2020-21) (KL)  |
| (a) From process                      | Used oil (5.1)- 9.970<br>Waste oil (5.2)- NIL | Used oil (5.1)- 34.80<br>Waste oil (5.2)- NIL |
| (b) From pollution Control facilities | Not applicable                                | Not applicable                                |

\*\* including Cement Plant, CPP, WHRS, Mines & Colony. Hazardous waste generated are being sold to authorized recycler by CPCB.

**PART-E**

**SOLID WASTE**

|     |  | Total Quantity                           |   |
|-----|--|--|---|
|     |  | During previous financial year (2019-20) | During current financial year (2020-21) |
| (a) | From process                                     | Not applicable                           |   |
| (b) | From pollution control facility                  |  |   |
| (c) | Quantity rejected or reutilized with in the unit |  |   |

**PART-F**

**PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.**

There is no hazardous as well as Solid Waste produced.

**PART-G**

**IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.**

- Periodically preventive maintenance of Heavy earth moving machinery to meet the emission level below the prescribed limit.
- Wet drilling technology adopted to reduce fugitive dust emission.
- Water tanker deployed for water sprinkling on haul road.
- Green belt developed to reduce the noise level.
- Periodically measurement of air quality.
- Closed cabins facilitated in HEMM to reduce the noise level. All required PPE's are provided to all workmen.
- To reduce the vibration during blasting unit is using NONEL technology (Non Electric initiation system).
- Blasting between 12.00 noon to 3.00 PM when air density is low.
- Use of Air Decking & sufficient column stemming in the blast holes.

#### **PART-H**

#### **ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.**

**Expenditure incurred on environment protection measures during FY 2020-21**

| <b>S. No.</b>      | <b>Activity</b>                        | <b>Recurring cost per annum (Rs. in lacs)</b> |
|--------------------|--|---|
| 1.                 | Pollution control expenses (Others)    | 0.83  |
| 2.                 | Pollution control expenses (Statutory) | 2.069   |
| 3.                 | Plantation/ Gardening Expenses         | 14.2  |
| 4.                 | CSR Expenses                           | 67.46   |
| Total (Rs.in Lacs) |  | 84.559  |

#### **PART-I**

#### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT**

- 1) Monitoring of ambient air and water quality is being done regularly as mentioned in Consent to operate.
- 2) Emission level well within the prescribed norms.
- 3) Water sprinkling is being done on haul road and mining area to suppress fugitive dust emission.
- 4) Total 7.47 ha. Area covered under plantation with 16620 nos. of plants till 31<sup>st</sup> March 2021.

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