

NBH/PC/ESR/21

765

Date: 22.09.2023

To,

The Member Secretary

Rajasthan State Pollution Control Board

4, Industrial Area

Jhalana Doongri

JAIPUR - 302004 (Raj)

Subject: Environmental Statement Report for the year FY 2022-2023 of Karunda Limestone Mine (ML 03/03) of M/s J.K. Cement Works, Tehsil: Nimbahera, Dist: Chittorgarh (Rajasthan).

Ref: F (Mines)/ Chittorgarh (Nimbahera)/1869(1)/2017-2018/3891-3895 Order No. 2021-2022/Mines/10332 Dated: 12/11/2021

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Karunda Limestone Mine for the year FY 2022-2023 for your reference and record. We believe you will find the same in order.

Thanking You.

Yours Faithfully

For J.K. Cement Works, Nimbahera

R. B. M. Tripathi
President (Operations)

Encl.: as above.

Copy:

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

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 2022-23, ending the 31st March 2023

PART-A

| | |
|---|--|
| i. Name an address of the owner/occupier of the industry operation or process | Karunda Limestone Mine J.K. Cement Works, Nimbahera Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan) PIN- 312617 |
| ii. Industry category Primary - (STC Code) Secondary - (STC Code) | Primary |
| iii. Cement Production capacity | Limestone – 3.80 MMTPA |
| iv. Year of establishment- | 2001 |
| v. Date of last environmental statement submitted | 19 th September 2022 |

PART-B

WATER AND RAW MATERIAL CONSUMPTION

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

Process : - 124 m3/day (Spray on roads / mining, wet drilling etc.)

Cooling : - Nil

Domestic : - 1.0 m3/day

| Name of products | Process water consumption per unit of products | |
|------------------|---|--|
| | During the previous financial year (2021-22) (Liters/MT) | During the current financial year (2022-23) (Liters/MT) |
| 1. Limestone | 8.35 | 4.87 |

ii. RAW MATERIAL CONSUMPTION

| Name of raw material | Name of products | Consumption of raw material per unit of output | |
|-------------------------|------------------|--|---|
| | | During the previous financial year (2021-22) | During the current financial year (2022-23) |
| High speed diesel (HSD) | Limestone | 0.4480 litre/MT | 0.3804 litre/MT |
| Amonium Nitrate | | 0.0929 kg/MT | 0.060 kg/MT |
| Kelvex-600 | | 0.0048 kg/MT | 0.003 kg/MT |
| Acqudyne | | 0.000674 kg/MT | 0.002 kg/MT |
| Emulboost | | 0.000317 kg/MT | 0.0005 kg/MT |
| Kelvex-P(E) | | 0.00484 kg/MT | 0.000456 kg/MT |
| Dyneax boost | | 0 | 0 |
| Kelvex-500 | | 0.0049 kg/MT | 0.005 kg/MT |
| Energel | | 0.00243 kg/MT | 0.003 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) |
| Near Mine Office | 53.9 | 31.6 | 12.3 | 25.4 | 599.3 |
| Near Ravana Office | 56.1 | 33.9 | 14.2 | 25.7 | 639.4 |

Noise level monitoring data

| Month | Near Mine Office | | Near Ravana Office | |
|--------|-------------------|------------|--------------------|------------|
| | NOISE LEVEL dB(A) | | | |
| | Day Time | Night Time | Day Time | Night Time |
| Apr-22 | 60.5 | 42.1 | 65.8 | 49.6 |
| May-22 | 68.4 | 46.6 | 69.7 | 45.2 |
| Jun-22 | 71.2 | 45.3 | 66.8 | 48.5 |
| Jul-22 | 57.9 | 42.2 | 63.1 | 47.9 |
| Aug-22 | 53.8 | 40.1 | 61.2 | 46.3 |
| Sep-22 | 59.2 | 47.3 | 64.8 | 51.2 |
| Oct-22 | 66.5 | 50.9 | 62.2 | 51.6 |
| Nov-22 | 64.2 | 45.5 | 60.1 | 47.4 |
| Dec-22 | 61.2 | 48.4 | 64.8 | 52.5 |
| Jan-23 | 67.9 | 49.6 | 68.3 | 50.2 |
| Feb-23 | 65.4 | 50.8 | 63.6 | 51.9 |
| Mar-23 | 68.1 | 48.1 | 62.3 | 46.6 |

PART-D

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

| Hazardous waste | Total Quantity | |
|---------------------------------------|---|---|
| | During previous financial year (2021-22) (KL) | During current financial year (2022-23) (KL) |
| (a) From process | Used oil (5.1)- 8.60 Waste oil (5.2)- 11.0 | Used oil (5.1)- 40.4 Waste oil (5.2)- 19.0 |
| (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 (2021-22) (MT/Year) | During current financial year (2022-23) (MT/Year) |
| (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 2022-23

| S. No. | Activity | Recurring cost per annum (Rs.in Lacs) |
|--------------------|--|--|
| 1. | Pollution control expenses (Others) | 0.46 |
| 2. | Pollution control expenses (Statutory) | 3.41 |
| 3. | Gardening Expenses | 7.63 |
| Total (Rs.) | | 11.5 |

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) Two CAAQMS has been installed at Karunda limestone mines and real time ambient air quality data is connected with CPCB & SPCB Portal
- 4) Water sprinkling is being done on haul road and mining area to suppress fugitive dust emission.
- 5) Total 27.65 ha. Area covered under plantation with 69605 nos. of trees up to FY 2021-22. Apart from this we have planted 5975 saplings in FY 2022-23 in 2.37 ha.
