

NBH/PC/ESR/21

295

Date: 19.09.2022

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 2021-2022 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 2021-2022 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

- Padam Tower, 19 DDA Community Centre  
Okhla, Phase - 1, New Delhi - 110020, India  
+011-49220000  
admin.padamtower@jkcement.com  
www.jkcement.com

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## **ENVIRONMENTAL STATEMENT**

### **FORM - V**

Environmental Statement for the financial year 2021-22, ending the 31<sup>st</sup> March 2022

### **PART-A**

i. Name an address of the owner/occupier of the industry operation or process	<b>Karunda Limestone Mine</b> <b>J.K. Cement Works, Nimbahera</b> 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	17 <sup>th</sup> September 2021

### **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 (2020-21) (Liters/MT)	During the current financial year (2021-22) (Liters/MT)
1. Limestone	4.89	8.35

ii. RAW MATERIAL CONSUMPTION

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2020-21)	During the current financial year (2021-22)
High speed diesel (HSD)	Limestone	0.7727litre/MT	0.4480 litre/MT
Amonium Nitrate		0.087kg/MT	0.0929 kg/MT
Kelvex-600		0.006 kg/MT	0.0048 kg/MT
Acqudyne		0.001 kg/MT	0.000674 kg/MT
Emulboost		0.0002 kg/MT	0.000317 kg/MT
Kelvex-P(E)		0.005 kg/MT	0.00484 kg/MT
Dyneax boost		0 kg/MT	0
Kelvex-500		0.002 kg/MT	0.0049 kg/MT
Energel		0.005 kg/MT	0.00243 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	41.7	27.7	14.9	23.0	636
Near Ravana Office	49.7	35.3	18.4	26.2	640.4



### Noise level monitoring data

Month	Near Mine Office		Near Ravana Office	
	NOISE LEVEL dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-21	62.6	57.1	60.62	53.35
May-21	64.2	59.0	62.9	55.1
Jun-21	63.9	58.6	66.8	59.3
Jul-21	61.6	56.3	65.2	57.7
Aug-21	58.6	52.3	63.8	54.6
Sep-21	59.7	51.4	61.9	51.7
Oct-21	64.8	57.3	60.2	52.3
Nov-21	63.4	55.9	63.5	42.7
Dec-21	66.7	56.2	61.2	50.3
Jan-22	46.5	38.1	55.8	43.5
Feb-22	53.8	43.6	59.4	46.6
Mar-22	41.7	36.2	48.2	32.7

### PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2020-21) (KL)	During current financial year (2021-22) (KL)
(a) From process	Used oil (5.1)- 26.80 Waste oil (5.2)- NIL	Used oil (5.1)- 8.60 Waste oil (5.2)- 11.0
(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 (2019-20) (MT/Year)	During current financial year (2020-21) (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 2021-22**

<b>S. No.</b>	<b>Activity</b>	<b>Recurring cost per annum (Rs.in Lacs)</b>
<b>1.</b>	Pollution control expenses (Others)	66.40
<b>2.</b>	Pollution control expenses (Statutory)	3.91
<b>Total (Rs.)</b>		<b>70.31</b>

## **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 24.5 ha. Area covered under plantation with 62350 nos. of trees up to FY 2020-21. Apart from this we have planted 7300 saplings in FY 2021-22 in 3.15 ha.

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