

NBH/PC/ESR/21

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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 FY 2022-23 of Nimbahera-Ahirpura Limestone Mine (ML 02/97) of M/s J. K. Cement Works, Tehsil: Nimbahera, Dist.: Chittorgarh (Rajasthan).**

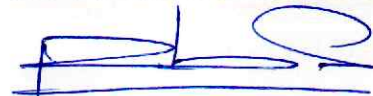
Ref: F (Mines)/Chittorgarh (Nimbahera) /1869 (1)/2017-2018/6610-6614 Order No. 2021-2022/ Mines /10405 Dated: 15/02/2022.

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Nimbahera-Ahirpura Limestone Mine for the 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 31<sup>st</sup> March 2023

**PART-A**

i. Name an address of the owner/occupier of the industry operation or process	Nimbahera-Ahirpura Limestone Mine J.K. Cement Works, Nimbahera Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan) - 312617
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity	Limestone - 0.8949 MMTPA
iv. Year of establishment-	1971
v. Date of last environmental statement submitted	19 <sup>th</sup> September 2022

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

i. **WATER CONSUMPTION** in m<sup>3</sup>/day

Process	:	18.5 m <sup>3</sup> /day (Spray on roads / mining, wet drilling etc.)
Cooling	:	Nil
Domestic	:	1.5 m <sup>3</sup> /day

Name of products	Process water consumption per unit of products	
	During the previous financial year 2021-22 (KL/Unit)	During the current financial year 2022-23 (KL/Unit)
Limestone	0.0053	0.0073

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	0.310 liter/ton	0.596 liter/ton
AN		0.0753 kg/MT	0.0738 kg/MT
ED		0.00077 kg/MT	0.00099 kg/MT
KELVEX 600		0.011602 kg/MT	0.015313 kg/MT
AQUADYNE		0.005786 kg/MT	0.006978 kg/MT
KELVEX-P		0.00020 kg/MT	0.00kg/MT

KELVEX 500		0.000193 kg/MT	0.003416 kg/MT
ENERGEL		0.0000323 Kg/MT	0.0009044 kg/MT
D-FUSE		0.0185 Kg/MT	0.03924 Kg/MT
MSDD		0.000209 Kg/MT	0.00000844 Kg/MT
NONELS		0.01085 Kg/MT	0.01066 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				
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
Ahirpura Block - Near Mines Gate	48.4	27.6	12.8	21.7	646.5
Ahirpura Block - Near Mine Water Pump House	58.5	33.8	14.1	24.2	629.1
Murlia Block - Near Mines Office	53.5	28.4	11.3	23.7	610.5
Murlia Block - Near Ravana Office	59.7	33.4	13.3	26.7	668.7

**Ambient Noise Level Monitoring Data (Ahirpura Mine)**

Month	Near Mines Gate		Near Mine Water Pump House	
	NOISE LEVEL - dB(A)			
	DAY	NIGHT	DAY	NIGHT
Apr-22	52.5	43.6	54.2	42.2
May-22	50.5	41.6	55.3	47.5
Jun-22	54.6	47.6	55.5	42.8
Jul-22	56.9	48.5	58.4	43.3
Aug-22	55.4	46.3	59.7	44.1
Sep-22	53.2	45.5	57.8	46.9
Oct-22	60.2	51.2	63.3	52.4
Nov-22	64.2	54.3	61.3	47.3
Dec-22	60.9	52.2	65.4	51.5
Jan-23	64.3	50.4	62.2	49.6
Feb-23	67.8	52.3	64.2	50.2
Mar-23	62.2	58.6	60.3	51.6

### Ambient Noise Level Monitoring Data (Murlia Block)

Month	Near Mine office		Near Ravana office	
	NOISE LEVEL - dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-22	61.2	45.2	55.9	41.3
May-22	59.5	42.6	58.1	45.6
Jun-22	60.6	42.2	58.8	47.6
Jul-22	61.1	41.3	60.2	46.7
Aug-22	58.7	44.6	59.6	43.8
Sep-22	60.2	40.4	63.4	42.9
Oct-22	62.2	48.6	64.6	43.4
Nov-22	61.2	47.3	60.1	48.9
Dec-22	62.3	50.6	64.9	47.5
Jan-23	64.3	45.3	62.2	50.3
Feb-23	60.1	48.9	69.4	52.6
Mar-23	66.7	50.9	68.6	51.5

### PART-D

(As specified under Hazardous & 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 wastes generated are being sold to registered recycler authorized by CPCB/SPCB.

### PART-E

#### SOLID WASTE

Particulars		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.
- Greenbelt developed to reduce the noise level.
- Periodically carried out the ambient air quality monitoring.
- Closed cabins facilitated in HEMM to reduce the noise level.
- All required PPE's are provided to all workers.
- To reduce the vibration during blasting unit is using NONEL technology (Non Electric initiation system).
- Blasting is being practice 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**

<b>S. No.</b>	<b>Activity</b>	<b>Recurring cost per annum (Rs. in lacs)</b>
1.	Pollution control expenses (Others)	<b>0.8586</b>
2.	Pollution control expenses (Statutory)	<b>4.4793</b>
<b>Total Expenditure (Rs in Lacs.)</b>		<b>5.3379</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) One CAAQMS has been installed at Murlia block of Ahirpura limestone mines and real time ambient air quality data is connected with CPCB & SPCB Portal
- 3) Emission level are being maintained well within the prescribed norms.
- 4) Water sprinkling is being done on haul road and mining area to suppress the fugitive dust emission.
- 5) Total 66.95 ha. Area is covered under plantation with 1,53,633 nos. plant till 31<sup>st</sup> March 2022. Apart from this we have planted 10761 nos tree sapling in FY-2022-23 in 4.54 Ha.

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