JK Cement Works, Nimbahera
A unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
Kailash Nagar - 312617, Nimbahera Distt., Chittorgarh (Raj.) INDIA
+91-1477-220098, 220087 jkc.nbh@jkcement.com
www.jkcement.com

NBH/PC/ESR/

Date: 24.09.2024

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

Subject: Environmental Statement Report for the FY 2023-24 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 2023-2024 for your reference and record. We believe you will find the same in order.

Thanking You.

Yours Faithfully
For J.K. Cement Works, Nimbahera

Manish Toshniwal
President (Operations)

Encl.: as above.

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

ENVIRONMENTAL STATEMENT FORM - V

Environmental Statement for the financial year 2023-24, ending the 31st March 2024

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	22.09.23

PART-B WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION in m^3/day

Process : 18.2 m^3/day (Spray on roads / mining, wet drilling etc.)
Cooling : Nil
Domestic : 1.5 m^3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year 2022-23 (KL/Unit)	During the current financial year 2023-24 (KL/Unit)
Limestone	0.0073	0.0080

ii. RAW MATERIAL CONSUMPTION

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year 2022-23	During the current financial year 2023-24
High speed diesel (HSD)	Limestone	0.596 litre/ton	0.624 liter/ton
AN		0.0738 kg/MT	0.0854 kg/MT
ED		0.00099 Nos./MT	0.00132 Nos./MT
KELVEX 600		0.015313 kg/MT	0.019332 kg/MT
AQUADYNE		0.006978 kg/MT	0.002505 kg/MT
KELVEX-P		0.00kg/MT	0.000007933 kg/MT
KELVEX 500		0.003416 kg/MT	0.008065 kg/MT
ENERGEL		0.0009044 kg/MT	0.0001322 kg/MT
D-FUSE		0.03924 Mtrs. /MT	0.04660 Kg/MT

MSDD		0.00000844 Nos./MT	0.00008197 Kg/MT
NONELS		0.01066 Nos./MT	0.0119228 Kg/MT
DYNEX BOOST /DYNEX PRIME		Not Used	0.004165 kg/MT
DYNEX COLUMN		Not Used	0.0007933 kg/MT
Microdet/uni tronic/e-SDD/E-DET		Not Used	0.0007377 Nos/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_{10} ($\mu g/m^3$)	PM2.5 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	CO (mg/m^3)
Ahirpura Block - Near Mines Gate	66.3	29.6	8.0	19.4	520
Ahirpura Block - Near Mine Water Pump House	67.1	28.7	9.5	20.9	470
Murlia Block - Near Mines Office	63.6	31.6	8.1	20.3	462
Murlia Block - Near Ravana Office	65.1	31.9	8.5	20.5	526

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-23	65.4	51.7	64.2	50.9
May-23	69.4	53.5	64.5	52.1
Jun-23	64.2	51.2	68.7	50.8
Jul-23	66.3	52.5	70.2	56.4
Aug-23	64.5	53.2	68.2	54.6
Sep-23	68.1	51.0	64.7	52.7

Oct-23	62.1	49.5	60.4	50.1
Nov-23	60.1	49.6	58.3	50.2
Dec-23	64.4	50.3	62.3	52.4
Jan-24	65.4	48.5	62.7	51.2
Feb-24	65.4	49.2	62.1	52.1
Mar-24	64.3	50.1	63.2	51.3
Average	64.96	50.85	64.12	52.06

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-23	68.4	49.8	64.8	48.6
May-23	66.2	49.5	63.7	47.1
Jun-23	63.8	53.6	66.9	54.9
Jul-23	65.8	54.9	64.9	53.7
Aug-23	67.4	52.1	66.8	54.8
Sep-23	69.1	51.7	63.4	50.8
Oct-23	64.6	48.4	62.8	49.4
Nov-23	63.4	51.4	62.8	54.2
Dec-23	66.8	50.1	68.4	51.3
Jan-24	66.2	49.2	65.2	50.1
Feb-24	64.1	50.1	65.3	52.2
Mar-24	67.3	49.8	66.1	48.6
Average	66.09	50.88	65.09	51.3

PART-D

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

Hazardous Waste	**Total Quantity**	
	During previous financial year 2022-23 (KL)	**During current financial year 2023-24 (KL)**
(a) From process	Used oil (5.1) – 40.4* Waste oil (5.2) -19.0*	Used oil (5.1) – 19.69* Waste oil (5.2) -0.0*
(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: 2023-24

S. No.	Activity	Recurring cost per annum (Rs. in lacs)
1.	Pollution control expenses (Others)	**0.63200**

2.	Pollution control expenses (Statutory)	**4.51605**
Total Expenditure (Rs in Lacs.)		**5.14805**

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 61.90 ha. Area is covered under plantation with 1,66,974 nos. plant till 31st March 2024.Apart from this we have planted 4775 nos tree sapling in FY-2022-23 in 4.86 Ha.

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