

NBH/PC/ESR/21 890

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 FY 2021-22 of Nimbahera-Ahирpura 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-Ahирpura Limestone Mine for the 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)



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ENVIRONMENTAL STATEMENT
FORM - V

Environmental Statement for the financial year 2021-22, ending the 31st March 2022

PART-A

i. Name and 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	17 th September 2021

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i. **WATER CONSUMPTION** in m³/day

Process	:	18.5 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 2020-21 (KL/Unit)	During the current financial year 2021-22 (KL/Unit)
Limestone	0.0042	0.0053

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	0.477 liter/ton	0.310 liter/ton
AN		0.0638 kg/MT	0.0753 kg/MT
ED		0.00058 kg/MT	0.00077 kg/MT
KELVEX 600		0.016296 kg/MT	0.011602 kg/MT
AQUADYNE		0.004032 kg/MT	0.005786 kg/MT
KELVEX-P		0.00019 kg/MT	0.00020 kg/MT

KELVEX 500		0.0016 kg/MT	0.000193 kg/MT
ENERGEL		0.0004 kg/MT	0.0000323 Kg/MT
D-FUSE		0.0270 kg/MT	0.0185 Kg/MT
MSDD		0.000314 kg/MT	0.000209 Kg/MT
NONELS		0.0089 kg/MT	0.01085 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 ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
Ahirpura Block - Near Mines Gate	44.5	30.2	11.5	19.4	702.4
Ahirpura Block - Near Mine Water Pump House	51.1	34.4	13.8	22.9	664.7
Murlia Block - Near Mines Office	43.8	31.1	14.6	25.5	672.3
Murlia Block - Near Ravana Office	53.2	34.0	16.0	28.3	737.7

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-21	62.1	56.3	60.5	53.3
May-21	63.4	57.2	62.8	55.6
Jun-21	68.2	56.5	64.5	56.8
Jul-21	66.4	53.8	61.1	52.3
Aug-21	61.2	50.8	46.2	38.1
Sep-21	64.5	51.2	52.3	41.7
Oct-21	60.6	57.1	48.7	44.3
Nov-21	58.4	54.3	46.9	41.2
Dec-21	55.1	51.8	41.4	40.7
Jan-22	57.6	42.3	55.9	37.1
Feb-22	51.2	38.8	48.2	35.7
Mar-22	53.8	39.7	50.5	36.9

Ambient Noise Level Monitoring Data (Murla Block)

Month	Near Mine office		Near Ravana office	
	NOISE LEVEL - dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-21	61.8	55.4	63	51.8
May-21	62.3	54.1	63.9	50.3
Jun-21	67.8	60.6	63.2	55.2
Jul-21	64.8	62.2	58.8	52.2
Aug-21	60.9	56.2	59.7	48.1
Sep-21	63.3	52.7	60.8	50.1
Oct-21	62.7	59.2	49.6	46.4
Nov-21	60.4	53.8	50.8	41.7
Dec-21	62.8	58.9	51.2	44.8
Jan-22	47.6	38.9	46.6	35.9
Feb-22	52.8	41.8	53.8	39.1
Mar-22	49.9	40.8	51.1	42.3

PART-D

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

PART-E

SOLID WASTE

Particulars		Total Quantity	
		During previous financial year 2020-21 (MT/Year)	During current financial year 2021-22 (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: 2021-22

S. No.	Activity	Recurring cost per annum (Rs. in lacs)
1.	Pollution control expenses (Others)	33.65
2.	Pollution control expenses (Statutory)	4.65
3.	Plantation / Gardening Expenses	5.14
Total Expenditure (Rs in Lacs.)		43.44

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 Mulla back of Anupura limestone mines and real time ambient air quality data is connected with CPCB & SPCB Portal.
- 3) Emission level are being monitored well within the prescribed norms.
- 4) Water sprinkling is being done on haul road and mining areas to suppress the fugitive dust emission.
- 5) Total 44.47 Hec. Area is covered under plantation with : 21.31 Hec. plant 18.17 Moun. 2021 Apart from this we have planted 1433 nos trees during in FY 2021. 22 Hec. 48 Hec.
