

NBH/PC/ESR/21

2264

Date: 17.09.2021

To,

The Member Secretary

Rajasthan State Pollution Control Board

4, Industrial Area

Jhalana Doongri

JAIPUR - 302004 (Raj)

Subject: Environmental Statement Report for the FY 2020-21 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)/2017-2018/2136-2140 Order No. 2017-2018/ Mines /9305 Dated: 20/06/2017.

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Nimbahera-Ahirpura Limestone Mine for the FY 2020-2021 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 (O) & Unit Head

Encl.: as above.

Copy:

The Regional Officer, Rajasthan State Pollution Control Board, Near FCI Godown,
Chanderiya, 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 2020-21, ending the 31st March 2021

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) PIN- 312617
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity	Limestone- 2.0 MMTPA
iv. Year of establishment-	1971
v. Date of last environmental statement submitted	15 th September 2020

PART-B**WATER AND RAW MATERIAL CONSUMPTION****i. WATER CONSUMPTION in m3/day**

Process : - 18.5 m3/day (Spray on roads / mining, wet drilling, etc)

Cooling : - Nil

Domestic : - 1.5 m3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year (2019-20) (KL/Unit)	During the current financial year (2020-21) (KL/Unit)
1. Limestone	0.0078	0.0042

ii. **RAW MATERIAL CONSUMPTION**

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
High speed diesel (HSD)	Limestone	0.592 liter/ton	0.477liter/ton
AN		0.0728 kg/MT	0.0638 kg/MT
ED		0.0011 kg/MT	0.00058 kg/MT
KELVEX 600		0.0189 kg/MT	0.016296 kg/MT
AQUADYNE		0.0039 kg/MT	0.004032 kg/MT
KELVEX-P		0.0003 kg/MT	0.00019 kg/MT
KELVEX 500		0.0024 kg/MT	0.0016 kg/MT
ENERGEL		0.0011 kg/MT	0.0004 kg/MT
D-FUSE		0.0205 kg/MT	0.0270 kg/MT
MSDD		0.0003 kg/MT	0.000314 kg/MT
NONELS		0.011 kg/MT	0.0089 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)
Ahirpura block- Near Mines Gate	49.8	36.1	14.1	23.5	676.4
Ahirpura block- Near mine water pump house	59.7	39.9	15.2	25.8	640.4
Murlia block- Near Mines Office	48.8	36.0	15.3	24.8	632
Murlia block- Near Ravana Office	61.7	41.8	17.4	26.3	757

Noise level monitoring data (Ahipura Mine)

Month	Near Mines Gate		Near Mine Water Pump House	
	NOISE LEVEL db(A)			
	DAY	NIGHT	DAY	NIGHT
Apr-20	'Mines was not in operation due to Covid-19 lockdown			
May-20				
Jun-20	60.3	51.2	57.8	50.6
Jul-20	56.4	50.6	61.4	52.3
Aug-20	57.2	51.1	62.3	53.2
Sep-20	56.4	50.7	61.4	52.8
Oct-20	58.0	52.0	60.0	51.0
Nov-20	57.4	51.6	59.6	50.9
Dec-20	58.1	52.4	60.3	51.4
Jan-21	56.5	51.4	61.2	50.8
Feb-21	59.3	57.3	64.3	59.5
Mar-21	55.2	53.2	60.6	56.2

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-20	'Mines was not in operation due to Covid-19 lockdown			
May-20				
Jun-20	61.5	54.7	65.3	59.8
Jul-20	60.3	53.8	64.1	58.3
Aug-20	61.3	54.4	65.2	59.6
Sep-20	60.8	53.7	64.1	58.5
Oct-20	59.0	52.0	63.0	57.0
Nov-20	60.1	53.6	64.2	56.8
Dec-20	59.4	52.8	63.7	55.8
Jan-21	61.4	51.1	62.6	55.6
Feb-21	62.4	58.5	65.6	60.2
Mar-21	60.6	55.3	62.2	54.2

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2019-20) (KL)	During current financial year (2020-21) (KL)
(a) From process	Used oil (5.1)- 9.970 * Waste oil (5.2)- NIL	Used oil (5.1)- 26.80* Waste oil (5.2)- NIL
(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 authorized 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 2020-21

S. No.	Activity	Recurring cost per annum (Rs. in lacs)
1.	Pollution control expenses (Others)	1.33
2.	Pollution control expenses (Statutory)	4.13
3.	Plantation / Gardening Expenses	23.19
4.	CSR Expenses	78.56
Total (Rs in Lacs.)		107.21

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) Water sprinkling is being done on haul road and mining area to suppress fugitive dust emission.
- 4) Total 64.47 ha. Area is covered under plantation with 1,51,815 nos. plant till 31st March 2021.
