

MGR/PC/ESR/21

640

Date: 19.09.2021

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

**Subject: Environmental Statement Report for the year FY 2021-2022 of Tilakhera Limestone Mine (ML 7/97) of M/s J.K. Cement Works, Mangrol, Tehsil: Nimbahera, Dist: Chittorgarh (Rajasthan).**

Ref: F(Mines)/Chittorgarh (Nimbahera)/1868(1)/2017-2018/2126-2130 Order No.2017-2018/Mines/9303 Dated: 20/06/2017

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Tilakhera Limestone Mine for the year FY 2021-2022 for your reference and record. We trust you will find the same in order.

Thanking You.

Yours Faithfully  
**For J.K. Cement Works, Mangrol**



R. B. M. Tripathi  
President (Operations)

Encl: as above.

Copy:

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



**Corporate Office**

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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 and address of the owner/occupier of the industry operation or process	<b>Mangrol-Tilakhera Limestone Mine</b> <b>J.K. Cement Works, Mangrol</b> Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan) PIN- 312617
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Cement Production capacity	Limestone- 2.4 MMTPA
iv. Year of establishment-	1979
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	: -	77.0 m3/day (Spray on road/mining & wet drilling)
Cooling	: -	Nil
Domestic	: -	3.0 m3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year (2020-21) (Litres/Unit)	During the current financial year (2021-22) (Litres/Unit)
1. Limestone	13.078	12.0951

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	0.5593litre/MT	0.6369 litre/MT
Ammonium nitrate 'prilled'		0.0904 kg/MT	0.0986 kg/MT
ED		0.000591 kg/MT	0.00089 kg/MT
Kelvex 600 -83 MM		0.02136 kg/MT	0.006203 kg/MT
Aquadyne-83 MM		0.008170 kg/MT	0.001623 kg/MT
Emual boost -125 GRM		0	0.000814 kg/MT
Kelvex-p -83 MM		0.001777 kg/MT	0.001617 kg/MT
Kelvex 500-83 MM		0.007588 kg/MT	0.006814 kg/MT
Energel-83 MM		0.005399 kg/MT	0.001655 kg/MT
D- fuse		0.0434 kg/MT	0.04453 kg/MT
MSDD		0.000375 kg/MT	0.000254 kg/MT
Nonels		0.008817 kg/MT	0.01044 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 Mines Gate	40.1	25.9	11.8	20.2	661.4
Near Ravana Office	47.4	31.5	14.4	22.9	712.9

### 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	63.3	57.8	62.1	54.3
May-21	65.9	60.1	61.7	51.4
Jun-21	69.2	58.3	63.2	54.8
Jul-21	64.7	53.9	60.8	50.5
Aug-21	61.7	50.5	54.9	42.6
Sep-21	62.5	49.7	57.9	44.2
Oct-21	56.4	42.1	62.4	53.7
Nov-21	52.3	39.1	59.3	51.6
Dec-21	50.7	43.9	55.4	49.9
Jan-22	54.6	35.6	59.2	47.8
Feb-22	58.4	40.4	65.3	44.4
Mar-22	52.3	37.9	55.8	46.1

### 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)- 34.8 Waste oil (5.2)- NIL	Used oil (5.1)- 5.0 Waste oil (5.2)- 31.6
(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 (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.
- 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.
- Permanent water sprinkler on haul road.

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**ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING**  
**ABATEMENT POLLUTION, PREVENTION OF POLLUTION**

Expenditures incurred on environmental protection measures during FY 2021-22

S. No.	Activity	Accounting cost per annum (Rs. in lakh)
1.	Production control expenses (Paper)	27.22
2.	Production control expenses (Shredding)	1.40
	<b>Total (Rs. in lakh)</b>	<b>28.62</b>

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**ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT**

- 1) Monitoring of ambient air and water quality & testing done regularly is maintained & reported to agencies.
- 2) Drinking water and effluent for groundwater source.
- 3) One C.A.M.Q.M. has been installed at treatment discharge point and real time ambient air quality data is communicated with CPCB & APJ & others.
- 4) Motor vehicles & testing done in laboratory and vehicle data is reported regularly and regularly.
- 5) Under 25.11 No. Motor & vehicle noise pollution with 100db max. at point B (1) present 2021 report. Noise this was noise pollution 100db max. existing the existing noise 100db is 100db (1) 100db.