o/c

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

MGR/PC/ESR/21 1263

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 year FY 2020-2021 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 2020-2021 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 (O) & Unit Head

Encl: as above.

Copy:

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

ENVIRONMENTAL STATEMENT

FORM - V

Environmental Statement for the financial year 2020-21, ending the 31st March 2021

PART-A

i. Name an address of the owner/occupier of the industry operation or process	**Mangrol-Tilakhera Limestone Mine** **J.K. Cement Works, Mangrol** Kailash Nagar, Tehsil: Nimbahera, Chittorgarh (Rajasthan) PIN- 312617
ii. Industry category **Primary - (STC Code)** **Secondary - (STC Code)**	Primary
iii. Cement Production capacity	Limestone- 1.6 MMTPA
iv. Year of establishment-	1979
v. Date of last environmental statement submitted	15th September 2020

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION in m3/day

Process : - 47.0 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 (2019-20) (Litres/Unit)	During the current financial year (2020-21) (Litres/Unit)
1. Limestone	10.716	13.078

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	0.5820 liter/MT	0.5593litre/MT
Ammonium nitrate 'prilled'		0.1438 kg/MT	0.0904 kg/MT
ED		0.0005 kg/MT	0.000591 kg/MT
Kelvex 600 -83 MM		0.0222 kg/MT	0.02136 kg/MT
Aquadyne-83 MM		0.0076 kg/MT	0.008170 kg/MT
Emual boost -125 GRM		0.000018 kg/MT	0
Kelvex-p -83 MM		0.0023 kg/MT	0.001777 kg/MT
Kelvex 500-83 MM		0.0163 kg/MT	0.007588 kg/MT
Energel-83 MM		0.0030 kg/MT	0.005399 kg/MT
D- fuse		0.0489 kg/MT	0.0434 kg/MT
MSDD		0.0005 kg/MT	0.000375 kg/MT
Nonels		0.0085 kg/MT	0.008817 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	48.8	35.9	13.8	24.0	631
Near Ravana Office	59.9	39.9	15.5	24.4	704

Noise level monitoring data

Month	Near Mine Office		Near Ravana Office	
	NOISE LEVEL dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-20	'Mine was not in operation due to Covid-19 lockdown			
May-20				
Jun-20	59.6	53.7	68.2	63.1
Jul-20	60.4	54.8	67.1	61.8
Aug-20	61.5	55.1	68.3	62.4
Sep-20	60.7	54.3	67.1	60.4
Oct-20	59.0	53.0	66.0	58.0
Nov-20	58.7	52.6	65.1	57.8
Dec-20	59.6	53.4	66.8	56.7
Jan-21	60.9	51.7	67.8	55.8
Feb-21	58.6	55.2	63.2	62.2
Mar-21	57.3	52.1	62.3	61.2

PART-D

(As specified under Hazardous Waste & 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)- 34.8 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 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)	0.697
2.	Pollution control expenses (Statutory)	3.193
3.	Plantation / Gardening Expenses	10.5
4.	CSR Expenses	55.1977
Total (Rs in lacs.)		69.59

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 22.31 ha. Area is covered under plantation with 51404 nos. of plants till 31st March 2021.

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