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MGR/PC/ESR/21

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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 FY 2021-22 of Mangrol Limestone Mine (ML 26/08) of M/s J. K. Cement Works, Mangrol, Tehsil: Nimbahera, Dist.: Chittorgarh (Rajasthan).

Ref: F(Mines)/Chittorgarh(Nimbahera) /1863 (1)/2016-2017/7040-7044 Order No.2018-2019/ Mines /9905 Dated: 25/02/2019.

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Mangrol Limestone Mine for the 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

Padam Tower, 19 DDA Community Centre
Okhla, Phase - 1, New Delhi - 110020, India
☎ +011-49220000
✉ admin.padamtower@jkcement.com
🌐 www.jkcement.com

**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 2021-22, ending the 31st March 2022

PART-A

i. Name and address of the owner/occupier of the industry operation or process	Mangrol 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- 1.50 MMTPA
iv. Year of establishment-	2012
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 : - 80.5 m³/day

Cooling : - Nil

Domestic : - 0.5 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	21.57	16.74

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	0.4078litre/MT	0.36421 litre/MT
Ammonium Nitrate		0.0838 kg/MT	0.09066 kg/MT
Kelvex-600 (83 mm)		0.0109 kg/MT	0.00582 kg/MT
Emul boost (125 Gram)		0.00018 kg/MT	0.000582 kg/MT
Kelvex-P (83 mm)		0.00277 kg/MT	0.00197 kg/MT
Aquadyne (83 mm)		0.00260 kg/MT	0.00249 kg/MT
Kelvex-500 (83 mm)		0.002500 kg/MT	0.0066275 kg/MT
Energel (83 mm)		0.00601 kg/MT	0.002570 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)
Towards Factory Gate	40.0	28.1	15.4	24.8	689.0
Near Ravana Office	48.5	32.0	19.3	28.8	744.4

Noise level monitoring data

Month	Towards Factory Gate		Near Ravana Office	
	NOISE LEVEL dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-21	61.5	56.2	59.5	54.2
May-21	62.6	57.9	61.6	53.8
Jun-21	69.3	60.6	68.5	57.2
Jul-21	67.8	58.6	66.3	52.7
Aug-21	63.3	54.1	60.1	44.7
Sep-21	64.4	55.3	58.6	42.3
Oct-21	52.3	41.6	62.5	48.9
Nov-21	48.7	32.7	58.4	43.7
Dec-21	45.7	34.1	52.7	41.1
Jan-22	46.5	38.1	55.8	43.5
Feb-22	53.8	43.6	59.4	46.6
Mar-22	41.7	36.2	48.2	32.7

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)- 34.80 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)	During current financial year (2021-22)
(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 2021-22

S. No.	Activity	Recurring cost per annum (Rs. in lacs)
1.	Pollution control expenses (Others)	0.43
2.	Pollution control expenses (Statutory)	20.66
Total (Rs.in Lacs)		21.09

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 7.47 ha. Area covered under plantation with 16620 nos. of plants till 31st March 2021. Apart from this we have planted 5750 saplings in FY-2021-22 in 2.20 Ha.
