



JK Cement LTD.

Phone : +91-1477-220098, 220087
Fax : +91-1477-220027, 220049
E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

J.K. Cement Works, Mangrol
C/o. Kailash Nagar-312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

CIN : L17229UP1994PLC017199

ISO 9001:2008, ISO 14001:2004 & OHSAS 18001 : 2007 CERTIFIED COMPANY

MGR/PC/ESR/21 271

Date: 15.09.2020

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 2019-2020 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,

With reference to above subject matter, please find enclosed herewith Environment Statement Report of Tilakhera Limestone Mine for the year FY 2019-2020 for your reference and record. We trust you will find the same in order.

Thanking You.

Yours Faithfully
For J.K. Cement Works, Mangrol

Anil Kumar Jain
Sr. General Manager (Environment)

Encl. : as above.

Copy:

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

Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 **Fax :** 2399854 **E-mail :** ho.grey@jkcement.com



J. K. Cement Works, Nimbahera
J. K. Cement Works Mangrol
J. K. Cement Works, Gotan

J. K. Power, Bamania
J. K. Cement Works, Muddapur
J. K. White Cement Works, Gotan



ENVIRONMENTAL STATEMENT

FORM - V

Environmental Statement for the financial year 2019-20, ending the 31st March 2020

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	25 th September 2019

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 (2018-19) (Litres/Unit)	During the current financial year (2019-20) (Litres/Unit)
1. Limestone	10.84	10.716

ii. **RAW MATERIAL CONSUMPTION**

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2018-19)	During the current financial year (2019-20)
High speed diesel (HSD)	Limestone	0.5810 liter/MT	0.5820 liter/MT
Ammonium nitrate 'prilled'		0.0962 kg/MT	0.1438 kg/MT
ED		0.0007 kg/MT	0.0005 kg/MT
Cord Relay		0	0
Kelvex 600 -83 MM		0.0257 kg/MT	0.0222 kg/MT
Aquadyne-83 MM		0.00001 kg/MT	0.0076 kg/MT
Emual boost -125 GRM		0	0.000018 kg/MT
Kelvex-p -83 MM		0.00158 kg/MT	0.0023 kg/MT
Kelvex 220 -25 MM		0	0
Kelvex 500-83 MM		0.0109 kg/MT	0.0163 kg/MT
Energel-83 MM		0	0.0030 kg/MT
D- fuse		0.0500 kg/MT	0.0489 kg/MT
MSDD		0.0012 kg/MT	0.0005 kg/MT
Nonels		0.0072 kg/MT	0.0085 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	46.6	33.4	12.0	23.0	587
Near Ravana Office	58.8	39.8	13.4	25.5	608

Noise level monitoring data

Month	Near Mine Office		Near Ravana Office	
	NOISE LEVEL db(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-19	68.6	55.9	69.9	56.7
May-19	68.6	56.0	69.1	57.8
Jun-19	68.2	55.8	69.8	58.9
Jul-19	67.5	56.2	68.9	57.8
Aug-19	66.9	55.7	67.5	57.1
Sep-19	67.8	56.7	69.1	58.3
Oct-19	66.5	55.4	67.8	57.7
Nov-19	65.3	54.8	66.8	55.9
Dec-19	67.2	56.3	68.5	58.4
Jan-20	56.8	52.1	67.4	63.0
Feb-20	57.1	51.9	66.8	61.4
Mar-20	58.2	52.6	67.8	62.6

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2018-19) (KL)	During current financial year (2019-20) (KL)
(a) From process	Used oil (5.1)- 23.700 Waste oil (5.2)- NIL	Used oil (5.1)- 9.970 Waste oil (5.2)- NIL
(b) From pollution Control facilities	Not applicable	Not applicable

** HSW generated includes generation in cement plant as well

PART-E

SOLID WASTE

		Total Quantity	
		During previous financial year (2018-19) (MT/Year)	During current financial year (2019-20) (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 2019-20

S. No.	Activity	Recurring cost per annum (Rs.)
1.	Pollution control expenses (Others)	109214
2.	Pollution control expenses (Statutory)	320200
3.	Gardening Expenses	338491
4.	CSR Expenses	3220056
Total (Rs.)		3987960/-

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 2000 plants are planted in FY- 2019-20.