

NBH/PC/ESR/

Date: 24.09.2024

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 2023-2024 of Karunda Limestone Mine (ML 03/03) of M/s J.K. Cement Works, Tehsil: Nimbahera, Dist: Chittorgarh (Rajasthan).

Ref: F (Mines)/ Chittorgarh (Nimbahera)/1869(1)/2017-2018/3891-3895 Order No. 2021-2022/Mines/10332 Dated: 12/11/2021

Dear Sir,

Kindly refer to above subject matter, please find enclosed herewith Environment Statement Report of Karunda Limestone Mine for the year FY 2023-2024 for your reference and record. We believe you will find the same in order.

Thanking You.

Yours Faithfully
For J.K. Cement Works, Nimbahera



Manish Toshniwal
President (Operations)

Encl.: as above.

Copy:

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

Corporate Office

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ENVIRONMENTAL STATEMENT FORM - V

Environmental Statement for the financial year 2023-24, ending the 31st March 2024

PART-A

i. Name an address of the owner/occupier of the industry operation or process	Karunda 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. Cement Production capacity	3.80 MMTPA Total excavation (Cement grade limestone – 3.448 MMTPA)
iv. Year of establishment-	2001
v. Date of last environmental statement submitted	22th September 2022

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION in m3/day

Process	: -	126 m3/day (Spray on roads / mining, wet drilling etc.)
Cooling	: -	Nil
Domestic	: -	1.0 m3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year (2022-23) (KL/MT)	During the current financial year (2023-24) (KL/MT)
1. Limestone	0.00507	0.00422

ii. RAW MATERIAL CONSUMPTION

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
High speed diesel (HSD)	Limestone	0.3804 litre/MT	0.4342 liter/MT
Amonium Nitrate		0.060 kg/MT	0.073 kg/MT
Kelvex-600		0.003 kg/MT	0.004 kg/MT
Acqudyne		0.002 kg/MT	0.0006 kg/MT
Emulboost		0.0005 kg/MT	0.006 kg/MT
Kelvex-P(E)		0.000456 kg/MT	0.00067 kg/MT
Dyneax boost		0	0.00049 Kg/MT
Kelvex-500		0.005 kg/MT	0.0085 kg/MT
Energel		0.003 kg/MT	0.00198 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 Mine Office	68.8	35.23	8.64	18.58	484.27
Near Ravana Office	65.25.	30.95	9.53	20.47	517.5

Noise level monitoring data

Month	Near Mine Office		Near Ravana Office	
	NOISE LEVEL dB(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-23	67.8	49.7	64.2	48.4
May-23	65.2	48.5	60.3	49.2
Jun-23	66.8	47.2	64.7	48.1
Jul-23	68.9	50.1	67.4	52.1
Aug-23	67.1	52.6	66.4	53.8
Sep-23	64.8	50.1	66.3	49.6
Oct-23	66.7	49.3	64.3	48.6
Nov-23	62.1	48.2	66.7	52.2
Dec-23	65.2	50.8	63.7	51.2
Jan-24	66.1	48.3	64.2	49.1
Feb-24	63.4	49.5	65.2	50.3
Mar-24	62.2	51.1	64.1	49.6

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2022-23) (KL)	During current financial year (2023-24) (KL)
(a) From process	Used oil (5.1)- 40.4 Waste oil (5.2)- 19.0	Used oil (5.1)- 19.69 Waste oil (5.2)- 0.0
(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
SOLIDWAST
E**

		Total Quantity	
		During previous financial year (2022-23) (MT/Year)	During current financial year (2023-24) (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 2023-24

S. No.	Activity	Recurring cost per annum (Rs.in Lacs)
1.	Pollution control expenses (Others)	0.50
2.	Pollution control expenses (Statutory)	3.41
3.	Gardening Expenses	7.63
	Total (Rs.)	11.9

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) Two CAAQMS has been installed at Karunda limestone mines and real time ambient air quality data is connected with CPCB & SPCB Portal
- 4) Water sprinkling is being done on haul road and mining area to suppress fugitive dust emission.
- 5) Total 28.52 ha. Area covered under plantation with 70730 nos. of trees up to FY 2022-23. Apart from this we have planted 4131 saplings in FY 2023-24 in 1.10 ha.
