

ENVIRONMENT STATEMENT
(FORM-V)

Daroli Limestone Mine Lease - 1
FY:2025-26

M/s JK Lakshmi Cement Ltd.

**Shripati Nagar, CFA, P.O. Dabok,
District – Udaipur – 313022, Rajasthan**

Environmental Statement for the financial year ending on **31st March, 2026**

FORM – V
(See rule 14)
Environmental statement for the financial year ending on 31st March 2026

PART – A

1.	Name and address of the Owner/Occupier of the Industry, operation of the process.	After amalgamation with M/s Udaipur Cement Works Ltd. (w.e.f. 01/08/2025), now the company name is; M/s JK Lakshmi Cement Ltd., Shripati Nagar, CFA, P.O. Dabok, Dist. Udaipur – 313022, Rajasthan
2.	Industry category	Red, Large
3.	Production Capacity	4.53 MMTPA*
4.	Year of establishment	1969
5.	Date of the last environmental statement submitted	25 th September, 2025

*MMTPA: Million Metric Tons per Annum

PART – B

Water and Raw Material Consumption

(I) Water consumption in m3/day.

Process	:	165 m3/day [for dust Suppression on Haulage Road & conveyor belts connected with Crusher (Includes water used in both the mines)]
Cooling	:	Nil
Domestic	:	146.81 m3/day [mines domestic and horticulture purposes (Includes water used in both the mines)]

Name of products	Process Water consumption ** per unit of product output	
	During the Previous financial year 2024-25	During the current financial year 2025-26
KL/MT of Limestone (includes ML-1 & ML-2)	0.028	0.027

(** Dust Suppression Haulage Road, Crusher & wet drilling)

(II) Raw Material consumption

S. No.	Name of Raw Material products	Consumption of raw material per unit output (Per Ton)	
		During the Previous financial year 2024-25	During the current financial year 2025-26
1	Loose Ammonium Nitrate (Kg/Ton of Limestone)	0.11	0.12
2	Slurry Explosives (Kg/Ton of Limestone)	0.03	0.05
3	Ordinary Electrical Detonators (No's/Ton of	0.0002	0.0001

	Limestone)		
4	Delay Electrical Detonators (No's)	0	0.0001
5	Detonating Fuse (Mts./Ton of Limestone)	0.0003	0
6	others (NONEL/EXCEL) (No's/Ton of Limestone)	0.01	0.01
7	Diesel (Liter/Ton of Limestone)	0.64	0.60
8	Lubricant oil (Ltrs./Ton of Limestone)	0.005	0.006
9	Grease (Kg/Ton of Limestone)	0.001	0.001

(III) Production

S. No.	Name of Product	During the previous financial year 2024-25	During the current financial year 2025-26
1	Limestone (MT)	2795373	3023772.60

PART – C

Pollution discharged to environment/unit of output generated (Parameter as specified in the consent issued)

S. No	Pollutants	Quantity of Pollutants discharged (mass/day)	Quantity of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reason.
a.	Water			
	Industrial	NIL	NIL	Zero Discharge
	Domestic	NIL	NIL	Zero Discharge
b.	Air (Stack Emission)			
		Avg. values of the year (2025-26)		
	(Stack emission)	Stack Attached to	Quantity of Pollutants discharged (kg/day)	Quantity of Pollutants discharged (mg/Nm3)
	Particulate matter	Crusher-1 Bag Filter	0.01	26.80
		Crusher-2 Bag Filter	0.01	13.90

(Crusher is common for both the mines and is located in Daroli Mine I lease area)

PART – D

Hazardous Wastes

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

S. No	Hazardous Waste	Total quantity	
		During the Previous financial year 2024-25	During the current financial year 2025-26
a.	From Process – Used Oil (Sch.-I, Cat. -5.1)	2.10 KL (includes ML-1 & ML-2)	
b.	From pollution control facility	NIL	NIL

PART- E

Solid Waste

S. No	Solid Waste	Total quantity (Tons)	
		During the previous financial year 2024-25	During the current financial year 2025-26
a.	From Process (Face Reject) in MT	190980.40	346539.05
b.	From pollution control facility	Nil	Nil
c.	Quantity recycled or reutilized	Nil	Nil

PART – F

Please specify the characterization (in terms of composition & quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

(i) Hazardous Waste:-

The Used Oil generated in the year **2025-26** was **2520 Lit. (including ML-1 & ML-2)** due to maintenance of mining machinery and vehicles, other crushing machinery and miscellaneous mining equipment.

The Used oil is stored in closed leak proof steel containers and kept on an impervious site at an isolated place, properly marked with a sign board having danger sign and warning text “**Hazardous waste – Unauthorized persons keep away**”, and away from the operational area and human activities & has been sold to the authorized recyclers.

Bio Medical Waste Management-

The Bio-medical waste generated from OHC Centre, located in Shripati Nagar Colony are being segregated into colored bins & disposed through the authorized CBWDF i.e. M/s En- Vision. The transportation of BMW is done by their own vehicle for final treatment and disposal. All the Bio-medical waste generated in the mines OHC (non bedded) is being sent to the township OHC and then further sent to CBMWTF. **(includes ML-1 & ML-2)**

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

The following control measures are provided for the abatement of pollution and conservation of natural resources

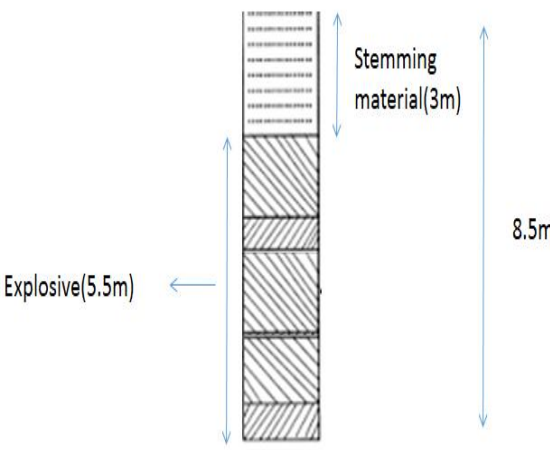
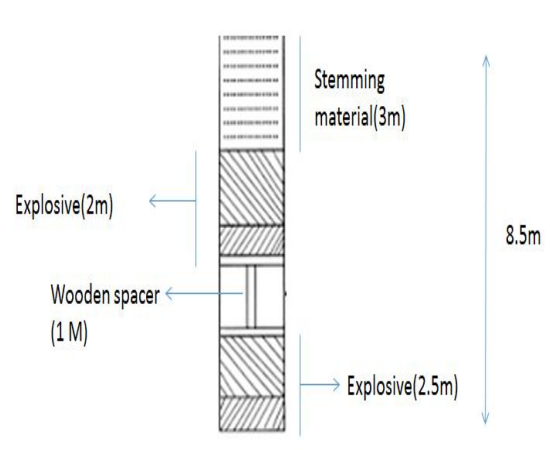
Air Pollution Control Measures

- ❖ All the mining machinery deployed in the mine area is equipped with latest technology having less emissions.
- ❖ Dust extractor and wet drilling arrangement have been provided in all drill machines for dust suppression during drilling operation.
- ❖ Installed cross belt analyzer for online quality checking
- ❖ Unit has installed one of its lightweight structures based 6.00 kms long Covered Over Land Belt Conveyor from mines crusher to plant site that eliminates the need of transportation of limestone via trucks through roads, thereby saving fuel and thus mitigating associated carbon emissions.
- ❖ Provided 3 numbers of water tankers fitted with water sprinkling arrangement for the dust suppression at mine haul Road, operating face, loading points etc.
- ❖ Blasting operations are carried out during daytime only.
- ❖ Rock breaker for breaking of oversize boulders instead of secondary blasting which eliminated its vibration noise and Fly rocks.
- ❖ Use of high-capacity dumpers for material handling in mining.
- ❖ Periodical maintenance of HEMM on time.
- ❖ To ensure vehicle emission within the limits, six monthly monitoring of the vehicle emission PUC of all HEMM is being done.
- ❖ People working in mines provide dust mask as a protective respiratory device.
- ❖ Crusher hopper provided with water sprinkler system, and it is covered from side, to control the dust emission during unloading of limestone. The crushing plant is installed in mining lease area, which is equipped with highly efficient Bag Filters ensuring the emission (PM) level below standards, as prescribed by the government and regulatory body.
- ❖ There are covered conveyor belts for transferring material from one location to another, equipped with bag filters.
- ❖ Bag filter provided at material transfer point and transportation of limestone through closed conveyor belt.
- ❖ Tree plantation in & around mines area.
- ❖ Regular ambient air quality monitoring is being carried out.

Noise vibration & fly rock control measures

The following measures are considered for noise vibration and Fly rocks.

- ❖ The controlled blasting is being practiced by optimum explosive.
- ❖ Latest blasting technology resulting in reduction of noise level in ground vibration to great extent.
- ❖ To reduce blast induced ground vibration and noise, a wooden explosive is being introduced in between the explosives;

Before	After
	
<u>Benefits</u> 1. Reduce Explosive charge per hole by introducing wooden Spacer in blast holes. 2. Optimization of blast parameter 3. Achieving Control blast practices	
❖ The blasting operation is being carried out only in daytime. ❖ The operator cabin is safeguarded with proper enclosures to reduce the noise level. ❖ Tree plantation around mine area to attenuate noise. ❖ Mining is practiced as per guidelines & Recommendation of DGMS.	
<u>Water pollution control measures</u>	
There is no wastewater generation from mining activity as the water is only required for spraying/dust suppression purposes. An Effluent treatment plant with the capacity of 10 KLD is installed at mine workshop to treat the wastewater generated during washing of HEMM, the treated water is being recirculated and re-utilized for washing of mines machinery vehicles However, no wastewater is being discharged from mine premises, and we are maintaining zero discharge	
❖ Check Dam was prepared in the east of Manderia pit to rain harvest water and refill the ground water. Heavy inrush of rainwater is also stop which erodes the topsoil of nearby village area. ❖ Effective Water sprinklers & dry fog system installed at crusher dump hopper and regular water sprinkling is done at truck haulage roads to prevent fugitive dust emissions occurring due to movement of vehicles. ❖ CGWA Compliance- JKLCL always committed to meet environmental and conduct ground Water Audit by National Productive Council.	
<u>Development Activities</u>	
Dust suppression by water sprinkling system	Cleaning of mines haulage road



A Visual of Digital Water meter, Digital water level recorder along with telemetry service.



Sewage Treatment Plant

Effluent Treatment Plant



Wet Drilling

Water Sprinkler



Water fogging System arrangement at Cone Crusher

Water Sprinkling system at Crusher hopper

	
Crusher Boundary wall	GI sheet covering conveyor belt
	
Covered (by GI sheets)	Complete covered Conveyor Belt

PART – H

Additional measurers/investment proposal for environmental protection including abatement of pollution/prevention of pollution.	
❖	Green belt development and tree plantation is our ongoing process. In financial year 2025-26; 2000 tree saplings were planted in mines lease 1 area. Plantation as per the provisions under the approved Mine Plan have been strictly adhered to and undertaken at designated locations.
❖	Up-gradation of conventional dust suppression system by atomized dust suppression system for conservation of water.

PART -I

Any other particulars for improving the quality of the environment.
JKLCL has undertaken various steps towards conservation of natural resources and energy through continuous improvement and various in-house modifications. Some of the major activities carried out are briefed as follows.
1. Full-fledged Environment management cell for Environmental monitoring, maintenance of pollution control equipment and green belt development. 2. Covered conveyor belt through the length by GI sheet. 3. 300-meter length pressurized water sprinkling system installed on haulage road to minimize dust emission while HEMM are moving. 4. Regular housekeeping of crusher and mines area is being done.

5. JKLCL has well equipped environment monitoring laboratory with monitoring equipment's such as Respirable Dust (PM10) Sampler, Gaseous sampling attachment, Fine particulate (PM2.5) sampler, sound level meter, UV-VIS spectrophotometer, TDS-Conductivity meter, pH meter etc.
6. Awareness promotion through various environmental competitions, presentations, mails, tree plantation etc. on world environment day, Earth Day etc.
7. Mechanized Handling of material is done (i.e. Unloading, storage, loading and feeding).
8. Heavy Earth Moving Machines (HEMM) and Dumper operators are provided with required PPEs like dust masks, ear plugs etc. HEMM and dumpers have PUC certificates and periodically obtain the same.
9. Periodic Environmental monitoring in term of ambient air, Noise, & treated water quality & water level monitoring carried out by MoEF&CC approved laboratory.
10. Installation of two stage crushing system for limestone crushing, to achieve lower wear rate.

Accreditation

The JKLCL is ISO Certified organization & certified by Bureau Veritas under following standards.

- 1) ISO 9001:2015 for Quality Management System
- 2) ISO 14001:2015 for Environment Management
- 3) ISO 50001:2011 for Energy Management System
- 4) ISO 45001:2018 for Occupational Health & Safety Management System
