



JK Cement Works, Panna
(Formerly known as Jaykaycem (Central) Ltd. now amalgamated)
A Unit of JK Cement Ltd.
CIN: L17229UP1994PLC017199
📍 Village - Harduwaken, Tehsil - Amanganj
District - Panna, State - Madhya Pradesh, India - 488 441
☎ 9329141591 📧 jkc.panna@jkcement.com
🌐 www.jkcement.com

Ref: JK/CTO-(KONI)/2024-25/17/04

Date- 10.09.2024

To,
Member Secretary,
MP Pollution Control Board,
Paryawaran Parisar, E-5, Arera Colony,
Bhopal (MP).

Subject: **Environment Statement Report (Form-V) for FY. 2023-24 of Koni Simariya Lime Stone Mine of M/s. JK Cement Limited, located at Various khasra at Villages- Koni, Boda & Vanbhai, Tehsil: Simariya Distt: Panna (M.P.)**

Reference No.:

1. Ministry (MoEF&CC) letter no. J-11015/80/2020/IA.II(M) dated 01.11.2021
2. Consent No: AWH-56349 dated 25.07.2022

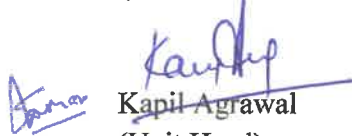
Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for FY. 2023-24 of Koni Simariya Lime Stone Mine of M/s. JK Cement Limited, located at Various khasra at Villages- Koni, Boda & Vanbhai, Tehsil: Simariya Distt: Panna (M.P.)

This is for your kind information and record, please.

Thanking you.
Yours faithfully,

For Koni -Simariya Limestone Mine
(Unit of JK Cement Limited)


Kapil Agrawal
(Unit Head)
Encl: As above

CC: 1- The Regional Office (WZ), MoEF&CC, Kendriya Paryavaran Bhawan, Bhopal – 462 016
2- Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)

Corporate Office

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- CIN: L17229UP1994PLC017199

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Hamirpur (U.P.) | Balasinor (Gujarat) | Fujairah

Registered Office : 📍 Kamla Tower, Kanpur-208001, U.P., India. ☎ +91-512-2371478 to 85 📧 91-512-2399854 🌐 www.jkcement.com



FORM – V
[See Rule 14]

Environmental Statement for the financial year ending the 31st March'2023 (FY: 2023-2024).
Koni-Simariya Limestone Mine (Unit: M/s J K Cement Limited)

PART – A

(i).	Name and address of the owner/ Occupier of the industry/operation or process.	: Kapil Agrawal Unit Head Koni-Simariya Limestone Mine, M/s. J K Cement Limited, 437 Kh.Nos. of Villages-Koni, Boda &Vanbhai Total 307.6 Hact. Dist: Panna, Tehl : Simariya,
(ii).	Industry Category - Primary (STC Code) / Secondary (STC Code)	: Read Large Scale
(iii).	Production Capacity Units	: Mining of Limestone-5.08 Million Ton per year Over Burden (OB)-1.030 Million Ton per year Soil -2.94 Million Ton per year.
(iv).	Year of establish	: 03.05.2022
(v).	Date of the Last Environmental Statement Submitted	: 29.07.2023

PART – B

Water & Raw Material Consumption and Limestone production

**A. Water consumption KL/Day
Over All Consumption**

- (i) Process (Dust Suppression at Mines) : **39.9 KL/Day** (Total 14560 KL)
- (ii) Cooling : N.A
- (iii) Domestic : **1.11 KL/Day** (Total 405 KL)

Consumption per unit of production

Name of Products	Process water consumption Per unit of product output (KL/MT of Limestone)	
	During the previous Financial year (2022-23)	During the current Financial year (2023-24)
Limestone	0.00072	0.0040

B. Raw material Consumption

(*) Name of Raw Materials	Name of Product	Consumption of Raw material Per unit of product output (KL/MT of Limestone)	
Description		During the previous Financial year (2022-23)	During the current Financial year (2023-24)
Diesel	Limestone	0.00099	0.00046

This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD).

C. Raw material Consumption

(*) Name of Raw Materials	Unit	During the previous Financial year (2022-23)	During the current Financial year (2023-24)
Description		During the previous Financial year (2022-23)	During the current Financial year (2023-24)
Diesel	Liters	851922	1694007
Lubricant Oil	Liters	4263	15114
Grease	KG	1818	1929
AFNO	KG	0	0
Slurry (Column, Prime, and base)	KG	148781	575075
Electrical Detonators	(In No's)	294	1037
Nonel Detonators	(In No's)	57330	250036
Detonating fuse	(in Mts)	0	0

This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD), Lubricant Oil and Grease for Heavy Earth Moving Machineries (HEMM) and Explosives for blasting.

D. Total Material Production (in Ton)

Product	During the previous Financial year (2022-23)	During the current Financial year (2023-24)
Limestone	852759.3	3646161
Over Burden (OB)	840039.2	0
Soil	108323.6	2339157

Note- Month wise production data enclosed as **Annexure-1)**

E. Total Power Consumption (KWH/MT of Limestone)

During the previous Financial year (2022-23)	During the current Financial year (2023-24)
1.14	1.31

F. Total Power Consumption (KWH)

During the previous Financial year (2022-23)	During the current Financial year (2023-24)
969113.180	1813739

PART – C

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

Pollutants	Quantity of pollutants Discharged (Tonne/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Waste water generated from the office toilets is treated into soak pit via septic tank. There is no waste water in mine. Mine's pit water is used for mining activities.		
(b) Air	Air monitoring parameters as specified in consent and its percentage of variation from prescribed standards are enclosed as Annexure-2 .		

PART – D

HAZARDOUS WASTES

[As specified under Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016]

Hazardous Wastes		Total Quantity sold to recycler	
Description		During the previous Financial year (2022-23)	During the current Financial year (2023-24)
(a) From Process	(a) Category 5.1 Used / Spent Oil	0.0	0.0
	(b) Category 5.2 Waste Residue Containing oil	0.0	0.0
	(c) Category 3.3 Sludge & Filters contaminated with oil	0.0	0.0
	(d) Category 33.1 Empty Barrels/containers/liners/contaminated with hazardous chemicals/wastes	0.0	0.0
(b) From Pollution Control Facilities	Nil	No hazardous waste is generated during mining activity.	

PART – E
SOLID WASTES

Solid Wastes	Total Quantity	
	During the previous Financial year (2022-23)	During the current Financial year (2023-24)
(a) From Process	N.A	N.A
(b) From Pollution Control Facilities	N.A	N.A
(c) Quantity recycled or reutilized		
(i) Within the unit.	N.A	N.A
(ii) Sold	N.A	N.A

(iii) Dispose	Over Burden: - 840039.2 MT Top Soil: - 108323.6 MT	Over Burden: - Nil Top Soil: - 2339157 MT
*Solid wastes generated in the mine is only top soil, which is non- hazardous.		

PART – F

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

Hazardous waste: Hazardous wastes like used spent oil generated from the mine are stored and subsequently disposed off to PCB's authorized recycler .

We have authorization for following type of Hazardous Waste and its mode of disposal.

Sr.No.	Hazardous Waste	Mode of Disposal
1	Category 5.1- Used or Spent Oil	CTSDF/Sale to Recyclers authorized with SPCB
2	Category 5.2- Wastes or residues containing oil	CTSDF/Sale to Recyclers authorized with SPCB
3	Category 3.3- Sludge & Filters contaminated with oil	CTSDF/Sale to Recyclers authorized with SPCB
4	Category 33.1-Empty Barrels/containers/liners/contaminated with hazardous chemicals/wastes	CTSDF/Sale to Recyclers authorized with SPCB

Solid waste: No solid waste generated yet

PART – G

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

The company has taken all the possible steps for conservation of natural resources such advanced fuel efficient HEMM equipment's are deployed, rain water harvested in mining pits and used for dust suppression and for afforestation. Adequate green belt development and plantation is provided within and surrounding mining lease area.

Air-

There is no impact observed on vegetation & water bodies in the surrounding area due to dust, as it is suppressed at its generating sources.

The following measures is being taken to suppress the dust at the source as well as to prevent the same spreading in the atmosphere:

- 1- Wet drilling system is provided on all the drill machines.
- 2- Regular water sprinkling is being done on haul road during operation.
- 3- Blasting parameters are optimize for proper fragmentation to reduce dust generation.
- 4- Plantation and development of Green Belt is done as per the approved mining plan.

Water:-

Being Mechanized Limestone mine it requires water mainly for Wet Drilling, Road Spraying and Green Belt Development. The source of water is borewell and the accumulated rainwater in the pit.

Noise:-

- 1- Geenbelt development for reducing noise.
- 2- PPEs are provided to all workers.

PART – H

Additional measures/investment proposed for environmental protection including abatement of pollution/prevention of pollution.

Company has spared adequate additional investment for green belt development and plantation since inception, year wise plantation detail as given below.

M/s -J K Cement Limited, Koni- Simariya Limestone Mine Panna (M.P.)						
Year wise Plantation details						
S.No	Period	Area (in Hectare)	No. of Trees Planted	Survival No's	Survival Rate	Remarks
1	2022-23	4.64	7328	6668	91.0%	
2	2023-24	6.03	13428	12085	90.0%	
Total		10.67	20756	18753.68	90.5%	

Blasting is done by using a combination of high strength and low strength explosives. Non-electric initiation is used in all of the blasts, which is costlier than conventional method of blasting. Non-electric initiation ensures least blast induced vibration, noise and fly rocks. Vibration is monitored by seismograph for each and every blast to ensure the parameters within specified limits.

Corporate Environment Responsibility (CER) Expenditure Report of Koni-Simariya Limestone Mine:

Our Committed /EAC approved **CER total amount: Rs 863.7 Lacs as 1st & 2nd year** budget and we have spent approx. **938.69 Lakh**. Record is being maintained. Koni Simariya Mine operation start date is 03.05.2022 and all concerned activities will be completed within time. (CER expenditure is given below.)

S.No	Activities	Expenditure Up to March-2024 (in Lakhs)
1	Health (Health, Check-up, Camp, Sports etc.)	131.53
2	Education (Books, Bags, Stationary etc.)	90.07
3	Sanitation (Domestic water, Toilets etc.)	9.39
5	Infrastructure (Road, Community Centers, etc.)	678.07

6	Other Local Social Need	10.18
7	Agricultural Development and Animal Husbandry	19.45
Total		938.69

PART – I

Any other particulars for improving the quality of the environment.

Various measures taken for the improvement of environment, details along with the photographs are given below:

Measures taken for Environmental protection and to conserve natural resources:

- 1- Sprinkling of water for dust suppression round the clock.
- 2- Roads are regularly maintained by deploying motor grader.
- 3- Wet drilling by water injection system.
- 4- Green Belt is being developed as mining plan.
- 5- Environment Monitoring is being done time to time through NABL accredited lab.
- 6- Development of thick green belt around the periphery of the mines.
- 7- Reclamation, Rehabilitation & Restoration by Plantation
- 8- Scheduled maintenance of all HEMM vehicles is being done regularly.
- 9- Use of non-electric initiation system in the blasting operation to reduce air blast & fly rock.
- 10-Daily monitoring of blast induced ground vibration by Seismograph.
- 11-Rain water harvesting in mines sumps.

Photographs showing various Environment protection measures at Mines



Greenbelt Development along lease Boundary



For providing safe drinking water to patients and Community health centre ,Simaria



Renovation and E-Class setup in Govt. School of Koni

Date: 10.09.2024




Name: Kapil Agrawal
Unit Head
(Koni-Simariya Limestone Mine)
M/s J K Cement Limited, Panna

Annexure-1

Sr.No	Month	Mining of Limestone Production	Over Burden (OB)	Soil
		(MT)	(MT)	(MT)
1	Apr-23	252473	0	100762
2	May-23	314436	0	410530
3	Jun-23	237668	0	394459
4	Jul-23	220900	0	67607
5	Aug-23	239543	0	127570
6	Sep-23	403026	0	134268
7	Oct-23	447432	0	388101
8	Nov-23	375568	0	227125
9	Dec-23	388607	0	156806
10	Jan-24	272474	0	119317
11	Feb-24	310891	0	70501
12	Mar-24	183143	0	142112
Total		3646161	0	2339157

Annexure-2

M/s - J K Cement Limited, Koni- Simariya Limestone Mine Panna (M.P.)
AMBIENT AIR QUALITY AT MINE (CORE ZONE)
(Year 2023-24)

Area	Description	Permissible Limit ($\mu\text{g}/\text{m}^3$)	Yearly Average ($\mu\text{g}/\text{m}^3$)	% variation from limit
Near CAAQMS (Mine site)	PM _{2.5}	40	29.56	-26.10
	PM ₁₀	60	56.15	-6.41
	SO ₂	50	11.76	-76.48
	NO ₂	40	16.20	-59.51
Near Crusher Area	PM _{2.5}	40	31.34	-21.64
	PM ₁₀	60	55.00	-8.33
	SO ₂	50	10.79	-78.41
	NO ₂	40	15.55	-61.12
Near Mine office	PM _{2.5}	40	31.00	-22.49
	PM ₁₀	60	54.47	-9.21
	SO ₂	50	12.93	-74.15
	NO ₂	40	15.80	-60.50

M/s - J K Cement Limited, Koni- Simariya Limestone Mine Panna (M.P.)
AMBIENT AIR QUALITY AT MINE (BUFFER ZONE)
(Year 2023-24)

Area	Description	Permissible Limit ($\mu\text{g}/\text{m}^3$)	Yearly Average ($\mu\text{g}/\text{m}^3$)	% variation from limit
Kolkaraiya Village	PM _{2.5}	40	26.94	-32.66
	PM ₁₀	60	47.04	-21.60
	SO ₂	50	12.27	-75.47
	NO ₂	40	15.17	-62.07
Tighara Village	PM _{2.5}	40	28.01	-29.98
	PM ₁₀	60	51.67	-13.89
	SO ₂	50	10.09	-79.82
	NO ₂	40	14.70	-63.26
Sotipura Village	PM _{2.5}	40	27.60	-31.01
	PM ₁₀	60	47.55	-20.74
	SO ₂	50	9.97	-80.07
	NO ₂	40	14.11	-64.72
Semariya Villlage	PM _{2.5}	40	29.96	-25.11
	PM ₁₀	60	48.25	-19.58
	SO ₂	50	12.76	-74.49
	NO ₂	40	16.93	-57.68