

Ref: JK/CTO-(KONI)/2023-24/17/01

Date- 27.09.2023

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

Subject: Environment Statement Report (Form-V) for FY. 2022-23 of Koni Simariya Lime Stone Mine of M/s. Jaykaycem (Central) 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. 2022-23 of Koni Simariya Lime Stone Mine of M/s. Jaykaycem (Central) 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 Jaykaycem (Central) 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)

FORM – V

ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR 2022-23

Koni-Simariya Lime Stone Mine (Unit: M/s Jaykaycem (Central) Limited)

PART – A

(I)	Name & Address of the Owner / Occupier of the Industry Operation or Process	Kapil Agrawal Unit Head Koni Simariya Lime Stone Mine (Unit of M/s Jaykaycem (Central) Limited) 437 Kh. Nos. of Villages - Koni, Boda & Vanbhai Total 307.6 Hact. Dist : Panna, Tehl : Simariya,
(II)	Industry Category Primary (STC CODE) Secondary (SIC CODE)	Red Category
(III)	Production Capacity	1. Mining of Lime Stone - 5.080 MTPA 2. Over Burden (OB) – 1.03 MTPA 3. Soil - 2.94 MTPA 4. Crusher - 1800.000 TPH
(IV)	Year of Establishment	03.05.2022
(V)	Date of last Environmental Statement Submitted	21.09.2022

PART – B

Water & Raw Material Consumption and Lime stone production

A. Water

Over All Consumption

(i) Process	- 611.529 KL
(ii) Cooling	- NA
(iii) Domestic	- 318 KL

Consumption per unit of production

Name of the Product	Process Water Consumption per unit of Product Output (KL/MT of Limestone)	
	During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Lime Stone	0.00	0.00072

B. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (KL/MT of Limestone)	
		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Diesel	Limestone	0.00	0.00099

C. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (in Liter)	
		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Diesel	Limestone	0.00	851922

D. Total Material Production (in Ton)

Product	During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Lime Stone	0.00	852759.3
Over Burden (OB)	0.00	840039.2
Soil	0.00	108323.6

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

During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
0.00	1.14

F. Total Power consumption (KWH)

During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
0.00	969113.180

G. Lubrication and Explosive consumption

Particulars	During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Lubrication oil consumption (In Litres)	0.00	4263
Grease consumption (In Kgs)	0.00	1818
ANFO (in Kgs)	0.00	0
Slurry (Column, Prime and base) (In Kgs)	0.00	148781
Electrical Detonators (In No's)	0.00	294
Nonel Detonators(In No's)	0.00	57330
Detonating fuse (in mts)	0.00	0

PART - C

Pollutant Discharged To Environment / Unit of Output
(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day) (tonne/day)	Concentrations of Pollutants in discharged (Mass / Volume) (kg/m ³)	Percentage of variation from prescribed standard 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 the mine. Mine's pit water is used for mining activities. Water consumption report is enclosed as Annexure no. I and ground water & Surface water analysis report attached as Annexure no. II		
(b)	Air	There is no point source emission in mine. Please refer Ambient Air Quality Monitoring report as Annexure no. III , Fugitive emission Monitoring report as Annexure no. IV and Noise Monitoring Report as Annexure no. V		

PART - D

(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2016)

Hazardous waste		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
From Process	(a) Category 5.1-Used or Spent Oil	00	00
	(b) Category 5.2-Wastes or residues containing oil	00	00
	(c) Category 3.3-Sludge & Filters contaminated with oil	00	00

	(d) Category 33.1 Empty Barrels /containers/liners contaminated with hazardous chemicals/wastes	00	00
From Pollution Control Facilities	Nil	00	00

PART – E

Solid Wastes

Solid Waste		Total Quantity	
		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
(a)	From Process	N.A.	
(b)	From Pollution Control facilities	N.A.	
(c)	(i) Qty. recycled or reused Within the unit.	N.A.	
	(ii) Sold	N.A.	
	(iii) Disposed: Over burden and Soil (In MT)	0.00 MT	OB- 840039.2 MT Soil- 108323.6 MT

PART – F

PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THE CATEGORIES OF WASTES.

Hazardous waste: The generated hazardous waste will be stored in dedicated area and will be disposed through registered recycler. Hazardous waste generation list is as under:

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
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 AND ON THE COST OF PRODUCTION.

AIR

There is no impact observed on vegetation & water bodies in the surrounding areas due to dust, as it will be 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 drill machines.

- 2- Regular water sprinkling is being done on haul road during operation.
- 3- Optimize blasting parameters for proper fragmentation to reduce dust generation.
- 4- Plantation and development of Green Belt as per 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- Green Belt development for reducing noise.
- 2- PPEs are provided to all workers.

PART – H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

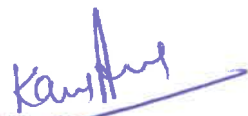
Green belt development and tree plantation is being done as per approved Mining Plan.

PART – I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- 1- CAAQMS will be installed at mine for continuously monitoring of Ambient Air.
- 3- Environmental monitoring is being done time to time through NABL accredited lab
- 4- Water sprinkling is being done for dust suppression.
- 5- Greenbelt area is being developed as mining plan.

For Koni Simariya Lime Stone Mine
(Unit: M/s Jaykaycem Central Limited)


Kapil Agrawal
Unit Head

KONI SIMARIYA LIME STONE MINE, JAYKAYCEM (CENTRAL) LTD., PANNA (M.P.)**A unit of JK Cement Ltd.****Water Consumption Report in for FY 2022-23**

Month	Water Consumption in (KL)			
	Permissible limit for Domestic Purpose	Water Consumption for Domestic Purpose	Permissible limit for Mining Activities	Water Consumption for Mining Activities
Apr-22	300	0	4500	0
May-22	310	0	4650	0
Jun-22	300	9.46	4500	0
Jul-22	310	10.8	4650	0
Aug-22	310	20.14	4650	0
Sep-22	300	25.52	4500	0
Oct-22	310	46.08	4650	0
Nov-22	300	41.4	4500	109.504
Dec-22	310	50.02	4650	162.45
Jan-23	310	53.7	4650	176.69
Feb-23	280	50.82	4200	145.94
Mar-23	310	10.06	4650	16.945
Total	3650	318	54750	611.529



Abhishek Joshi
Monitored & Checked by



Saurabh Kumar Yadav
Approved by

KONI SIMARIYA LIMESTONE MINE, JAYKAYCEM (CENTRAL) LTD., PANNA (M.P.)**A unit of JK Cement Ltd.****GROUND & SURFACE WATER ANALYSIS REPORT FOR FY-2022-23**

Sr. No.	Parameters	Prescribed Limits as per IS 10500:2012		Koni Mine Borewell	Ken River
		Required (Acceptable Limit)	Permissible Limit		
1	pH	6.5-8.5	No Relaxation	6.75	7.39
2	Color, Hazen Units	5	15	<1	<1
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	Agreeable	Agreeable	Agreeable	Agreeable
5	TDS	500 mg/L	2000 mg/L	948	209
6	Electrical Conductivity $\mu\text{S}/\text{cm}$	-	-	1378	320
7	Turbidity	1	5	0.16	0.18
8	Total Alkalinity	200 mg/L	600 mg/L	284	108
9	Total Hardness	200 mg/L	600 mg/L	564	124
10	Calcium	75mg/L	200 mg/L	171.2	33.6
11	Magnesium	30 mg/L	100 mg/L	33.05	17.5
12	Sodium	-	-	40.74	7.25
13	Potassium	-	-	5.22	2.03
14	Nitrate	45 mg/L	No Relaxation	16.74	9.72
15	Total Phosphate	-	-	<0.50	<0.5
16	Chloride	250 mg/L	1000 mg/L	23.98	13.99
17	Sulphate	200 mg/L	400 mg/L	372.4	16.81
18	Fluoride	1.0 mg/L	1.5 mg/L	0.67	<0.10
19	Cyanide	0.05 mg/L	No Relaxation	<0.01	<0.01
20	Phenolic Compound	0.001 mg/L	0.002 mg/L	<0.001	<0.01
21	Total Arsenic	0.01 mg/L	No Relaxation	<0.005	<0.01
22	Mercury	0.001 mg/L	No Relaxation	<0.005	<0.01
23	Lead	0.01 mg/L	No Relaxation	<0.001	<0.01
24	Cadmium	0.003 mg/L	No Relaxation	<0.003	<0.003
25	Total Chromium	0.05 mg/L	No Relaxation	<0.01	<0.01
26	Copper	0.05 mg/L	1.5 mg/L	<0.01	<0.01
27	Zinc	5 mg/L	15 mg/L	<0.01	<0.01
28	Selenium	0.01 mg/L	No Relaxation	<0.01	<0.01
29	Iron	0.3 mg/L	No Relaxation	0.05	0.02
30	Manganese	0.1 mg/L	0.3 mg/L	<0.01	<0.01
31	Total Coliform	Shall not be detectable in 100 ml sample		6 CFU	10CFU



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Saurabh Kumar Yadav
Approved by

KONI SIMARIYA LIMESTONE MINE, JAYKAYCEM (CENTRAL) LTD., PANNA (M.P.)

A unit of JK Cement Ltd.

AMBIENT AIR QUALITY MONITORING DATA FOR FY-2022-23

Month /Year	PM10 (µg/Cum)					PM2.5 (µg/Cum)					SO2 (µg/Cum)					NO2 (µg/Cum)				
	Permissible Limit for 24 hours - 100 (µg/Cum)					Permissible Limit for 24 hours - 60 (µg/Cum)					Permissible Limit for 24 hours - 80 (µg/Cum)					Permissible Limit for 24 hours - 80 (µg/Cum)				
	Near Mine Pit 1	Tighara Village	Sotipura Village	Semariya Village		Near Mine Pit 1	Tighara Village	Sotipura Village	Semariya Village		Near Mine Pit 1	Tighara Village	Sotipura Village	Semariya Village		Near Mine Pit 1	Tighara Village	Sotipura Village	Semariya Village	
Apr-22	50.47	50.89	54.39	54.94		31.96	32.12	27.62	33.11		6.68	6.97	7.15	6.74		11.53	12.18	13.24	13.35	
May-22	53.90	53.77	59.54	59.42		32.69	33.83	28.95	34.83		6.55	7.18	7.49	6.94		11.24	12.37	14.12	13.10	
Jun-22	54.95	54.41	57.89	58.59		34.00	33.52	28.22	34.51		6.53	7.24	7.50	6.66		11.45	12.94	14.35	14.12	
Jul-22	53.79	53.59	58.56	58.74		33.13	34.28	29.66	35.66		6.80	6.90	7.45	6.91		11.36	12.62	13.91	13.80	
Aug-22	54.23	53.80	59.18	59.10		33.34	34.61	28.46	35.44		6.83	7.08	7.56	6.93		11.56	13.01	14.28	13.77	
Sep-22	53.76	53.37	58.37	57.39		33.65	34.39	27.43	34.11		6.78	7.10	7.47	6.90		11.62	12.97	14.38	13.89	
Oct-22	47.42	48.89	50.68	51.93		30.56	29.16	27.38	31.56		6.64	6.84	6.78	6.52		11.43	11.24	12.35	13.07	
Nov-22	46.48	47.51	49.32	51.33		30.31	30.31	27.21	31.34		6.46	6.86	6.80	6.63		11.49	11.50	11.94	12.66	
Dec-22	50.55	51.35	56.27	56.73		32.30	32.65	29.20	34.58		6.83	6.79	7.35	6.91		11.40	11.99	13.47	13.31	
Jan-23	51.90	48.20	49.87	51.01		32.00	28.10	31.21	36.54		7.90	6.20	7.43	6.72		12.50	9.90	12.34	14.01	
Feb-23	51.90	48.17	50.34	57.12		36.20	28.06	32.71	38.87		7.90	9.90	16.51	7.80		12.50	9.90	16.51	15.00	
Mar-23	60.78	44.68	48.25	39.46		44.18	24.86	29.42	20.79		8.05	7.98	6.43	10.08		14.69	10.83	14.65	16.24	
Minimum	46.48	44.68	48.25	39.46		30.31	24.86	27.21	20.79		6.46	6.20	6.43	6.52		11.24	9.90	11.94	12.66	
Maximum	60.78	54.41	59.54	59.42		44.18	34.61	32.71	38.87		8.05	9.90	16.51	10.08		14.69	13.01	16.51	16.24	
Average	52.51	50.72	54.39	54.65		33.69	31.32	28.96	33.44		7.00	7.25	7.99	7.15		11.90	11.79	13.79	13.86	

Abhishek Joshi

Abhishek Joshi

Monitored & Checked by

Saurabh Kumar Yadav

Saurabh Kumar Yadav

Approved by

KONI SIMARIYA LIMESTONE MINE, JAYKAYCEM (CENTRAL) LTD., PANNA (M.P.)
A unit of JK Cement Ltd.

FUGITIVE EMISSION MONITORING DATA FOR FY-2022-23

Month	SPM ($\mu\text{gm}/\text{Cum}$) Permissible limit - 600 $\mu\text{gm}/\text{cum}$		
	Near Mine office	Near Mine Crusher	Near Mine Haul Road
Aug-22	89.21	143.47	174.37
Sep-22	91.01	134.59	166.47
Oct-22	106.81	139.57	174.34
Nov-22	98.71	122.45	156.38
Dec-22	101.31	128.48	164.37
Jan-23	107.23	188.27	176.72
Feb-23	110.23	182.21	167.12
Mar-23	109.78	179.26	164.17
Minimum	89.21	122.45	156.38
Maximum	110.23	188.27	176.72
Average	101.79	152.29	167.99


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NOISE MONITORING REPORT FOR FY-2022-23

Sr. No.	Location Name	Permissible Limits	Apr-22		May-22		Jun-22		Jul-22		Aug-22		Sep-22	
			Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Semariya Village	Ambient Noise Day time - 75 dB (A) Night time - 70 dB (A)	57.89	45.32	58.47	44.32	57.83	47.92	56.68	51.19	54.01	49.89	68.56	55.42
2	Kolkariya Village		59.64	43.29	60.17	47.53	59.76	46.12	59.36	46.13	58.76	46.71	59.01	45.1
3	Near Pit 1 (Boda Mine Site)	Work Zone Noise Work Zone - 85 dB (A)	54.19	45.57	57.45	46.84	59.18	48.38	53.45	47.26	71.46	61.87	69.01	59.91
4	Near Pit 2 (Koni Mine Site)		54.34	46.91	56.84	47.82	51.6	42.2	55.7	42.34	65.42	64.78	64.32	51.09
5	Near Crusher		50.75	43.12	50.98	45.58	56.7	44.3	58.95	57.76	72.09	60.17	58.76	44.31
6	Near Weigh Bridge		61.34	50.76	56.76	42.35	59.9	55.7	60.09	55.44	60.46	63.18	57.23	43.21
7	Near Mine Office		58.46	50.12	62.18	45.43	59.87	55.76	60.13	46.29	67.36	57.15	52.16	46.71

Sr. No.	Location Name	Permissible Limits	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23	
			Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq
1	Semariya Village	Ambient Noise Day time - 75 dB (A) Night time - 70 dB (A)	57.6	53.1	61.72	53.1	67.72	59.1	68.56	55.42	58.1	43.8	56.18	43.67
2	Kolkariya Village		57.93	45.19	58.01	48.71	57.73	45.28	59.01	45.1	57.6	49.12	62.19	54.23
3	Near Pit 1 (Boda Mine Site)	Work Zone Noise Work Zone - 85 dB (A)	51.6	42.2	56.9	42.2	59.9	41.2	54.89	40.78	70.1	63.23	71.46	61.87
4	Near Pit 2 (Koni Mine Site)		56.7	44.3	55.3	44.3	54.3	43.3	56.23	42.18	62.78	65.27	65.42	64.78
5	Near Crusher		59.9	55.7	67.13	55.9	62.12	51.09	61.06	50.13	71.12	62.26	72.09	60.17
6	Near Weigh Bridge		59.18	54.29	60.18	50.19	59.63	48.19	62.18	50.19	61.81	61.39	60.46	63.18
7	Near Mine Office		59.36	51.38	62.47	53.28	59.47	50.18	62.48	47.38	69.23	53.28	67.36	57.15


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