

Ref: JK/CTO-(KAKRA)/2023-24/18/02

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 Kakra- Panna Lime Stone Mine of M/s. Jaykaycem (Central) Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, Distt- Panna (M.P.)

Reference No.:

1. Ministry (MoEF&CC) letter no. J-11015/190/2016-IA-II(M) dated 31.08.2020
2. Corrigendum in EC Letter no. J-11015/190/2016-IA-II(M) dated 08.03.2021
3. Consent No: AWH-57726 dated 03.03.2023

Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for FY. 2022-23 of Kakra- Panna Lime Stone Mine of M/s. Jaykaycem (Central) Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, 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****Kakra-Panna 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 M/s. Jaykaycem (Central) Limited- Panna, various khasra at village- Kakra, Kamtana, Saptai, Judi, Dev, Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra,, Tah Amanganj, Distt- Panna (MP), City : Kakra, Dist : Panna, Tal : Amanganj
(II)	Industry Category Primary (STC CODE) Secondary (STC CODE)	Red Category
(III)	Production Capacity	1. Mining of Lime Stone - 4.08 MTPA 2. Mine Waste – 0.18 MTPA 3. Sub grade mineral – 0.58 MTPA 4. Mining of Inter burden – 1.51 MTPA 5. Mining of Soil / Alluvium – 1.26 MTPA
(IV)	Year of Establishment	CTO has been obtained (Mine not started yet).
(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 (Dust Suppression) - 0.00 KL
(ii) Cooling - NA
(iii) Domestic - 0.00 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	0.00

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	0.00

C. Total Material Production (in Ton)

Product	During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Lime Stone	0.00	0.00
Waste	0.00	0.00
Sub-grade Lime Stone	0.00	0.00
Inter Burden	0.00	0.00
Soil/Alluvium	0.00	0.00

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

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

E. 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	0.00
Grease consumption (In Kgs)	0.00	0.00
ANFO (in Kgs)	0.00	0.00
Slurry (In Kgs)	0.00	0.00
Electrical Detonators (In No's)	0.00	0.00
Nonel Detonators(In No's)	0.00	0.00
Detonating fuse (in mts)	0.00	0.00

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 will be discharged into soak pit via septic tank. There is no waste water in the mine. Mine's pit water will be used for dust suppression in mine. Ground Water Quality Analysis report enclosed as Annexure no. 1		
(b)	Air	There is no point source emission in mine. Ambient Air Quality Monitoring report enclosed Annexure-2 and Noise Monitoring report enclosed as Annexure-3		

PART - D

(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2016)
Hazardous waste will be generated and stored in dedicated area and will be disposed through registered recycler.

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: During the mining of limestone disposed of overburden (In MT)	0.00 MT	0.00 MT
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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: Hazardous waste will be generated and stored in dedicated area and will be disposed through registered recycler.

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 will be taken to suppress the dust at the source as well as to prevent the same, spreading in the atmosphere:

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

WATER

- 1- Being Mechanized Limestone mine, it requires water mainly for Wet Drilling, Road Spraying and Green Belt Development. The source of water will be the accumulated rainwater in the lower most benches. There will be no discharged of liquid effluent / waste water from the Mine.
- 2- There will be no discharge of rain water or waste water from the mine to outside lease area. Rain water in the catchment area of mine lease will be diverted through drainage in to mine pits and the water is used for dust suppression and plantation purpose.

NOISE

- 1- Green Belt development for reducing noise.
- 2- PPEs will be 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 will be 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.

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

A unit of JK Cement Ltd.

GROUND WATER ANALYSIS REPORT FOR FY-2022-23

Sr. No.	Parameters	Prescribed Limits as per IS 10500:2012			Kakra Village Govt. Hand Pump	Ken River
		Required (Acceptable Limit)	Permissible Limit			
1	pH	6.5-8.5	No Relaxation		6.86	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		656	209
6	Electrical Conductivity $\mu\text{S/cm}$	-	-		2040	320
7	Turbidity	1	5		0.18	0.18
8	Total Alkalinity	200 mg/L	600 mg/L		356	108
9	Total Hardness	200 mg/L	600 mg/L		544	124
10	Calcium	75mg/L	200 mg/L		153.6	33.6
11	Magnesium	30 mg/L	100 mg/L		38.88	17.5
12	Sodium	-	-		190.15	7.25
13	Potassium	-	-		15.65	2.03
14	Nitrate	45 mg/L	No Relaxation		52.89	9.72
15	Total Phosphate	-	-		<0.50	<0.5
16	Chloride	250 mg/L	1000 mg/L		231.93	13.99
17	Sulphate	200 mg/L	400 mg/L		335.35	16.81
18	Fluoride	1.0 mg/L	1.5 mg/L		0.56	<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		0.06	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			12 CFU	10 CFU

Abhishek Joshi

Abhishek Joshi
Monitored & Checked by

Saurabh Kumar Yadav

Saurabh Kumar Yadav
Approved by

KAKRA PANNA 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)		
	Kakra Mine Lease Area	Purena Village	Kamtana Village	Pakra Village	Kakra Mine Lease Area	Purena Village	Kamtana Village	Pakra Village	Kakra Mine Lease Area	Purena Village	Kamtana Village	Pakra Village
Apr-22	48.71	47.91	50.91	51.23	34.00	33.52	28.22	34.51	6.53	7.24	7.50	6.66
May-22	52.34	51.46	53.45	53.57	33.13	34.28	29.66	35.66	6.80	6.90	7.45	6.91
Jun-22	48.74	47.81	51.23	52.34	32.30	32.65	29.20	34.58	6.83	6.79	7.35	6.91
Jul-22	53.90	55.26	47.83	49.13	32.80	34.59	29.94	34.76	6.65	7.23	7.43	7.00
Aug-22	48.18	51.43	48.10	50.19	35.49	35.76	31.09	36.72	6.71	7.05	7.45	6.86
Sep-22	51.45	52.47	50.01	48.27	31.97	34.26	27.43	32.93	6.89	7.67	8.10	7.14
Oct-22	52.34	51.58	46.85	49.20	30.31	29.16	27.21	31.34	6.46	6.79	6.78	6.52
Nov-22	51.39	53.95	52.48	51.85	35.49	35.76	31.09	36.72	6.89	7.67	8.10	7.14
Dec-22	49.93	48.36	51.47	50.19	32.68	33.29	28.55	34.13	6.70	7.07	7.38	6.85
Jan-23	50.10	55.30	59.70	53.80	30.50	34.50	36.10	32.00	6.40	6.80	7.50	6.90
Feb-23	52.08	51.61	53.45	59.98	29.85	45.44	38.88	49.53	6.40	6.80	7.50	6.90
Mar-23	48.72	49.81	50.09	50.14	24.85	43.18	35.46	47.82	7.89	7.12	6.91	6.76
Minimum	48.18	47.81	46.85	48.27	24.85	29.16	27.21	31.34	6.40	6.79	6.78	6.52
Maximum	53.90	55.30	59.70	59.98	35.49	45.44	38.88	49.53	7.89	7.67	8.10	7.14
Average	50.66	51.41	51.30	51.66	31.95	35.53	31.07	36.72	6.76	7.09	7.45	6.88
									9.55	12.87	13.96	12.63

Abhishik Joshi
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KAKRA PANNA LIMESTONE MINE, JAYKAYCEM (CENTRAL) LTD., PANNA (M.P.)
A unit of JK Cement Ltd.

NOISE MONITORING REPORT FOR FY-2022-23

Sr. No.	Location Name	Permissible Limits	NOISE MONITORING REPORT FOR FY-2022-23																																															
			Apr-22				May-22				Jun-22				Jul-22				Aug-22				Sep-22				Oct-22				Nov-22				Dec-22				Jan-23				Feb-23				Mar-23			
			Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq	Day (dB)	Night (dB)	Leq	Leq				
1	Kakra Mine Lease area	Ambient Noise	45.71	32.1	33.92	42.48	34.65	44.32	33.85	43.12	32.49	44.23	33.21	33.21	44.23	33.21	33.21	42.95	34.28	56.32	45.31	67.26	58.45	69.35	61.25																									
2	Purena Village	Day time - 75 db (A)	49.64	36.6	33.89	42.48	34.29	44.38	32.45	45.93	35.26	44.32	33.56	34.28	42.95	34.21	34.21	42.95	34.28	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95		
3	Kamata Village	Day time - 70 db (A)	46.59	32.2	33.92	42.48	34.29	44.38	32.45	45.93	35.26	44.32	33.56	34.28	42.95	34.21	34.21	42.95	34.28	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95	34.21	42.95		
4	Pagra Village	Night Zone Noise	47.13	31.74	33.56	41.49	30.54	45.98	31.48	45.65	33.21	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	
5	Sotipura Village	Work Zone - 85 db (A)	46.12	33.13	33.56	41.49	30.54	45.98	31.48	45.65	33.21	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	33.89	46.58	33.89	


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