

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**MCDR Inspection REPORT**  
**Jabalpur Regional office**

**Mine code: 38MPR420001**

(i)	Name of Inspecting officer	:	Madhavrao Sabre
(ii)	Designation	:	Senior Mining Geologist
(iii)	Accompanying mine official with Designation	:	Suresh Wandhare – (Head – Mines) And Mining / Geologist Team of J. K. Cement Limited, Panna
(iv)	Date of Inspection	:	08.11.2024
(v)	Previous Inspection date	:	30.11.2023

**PART-I: GENERAL INFORMATION**

1	(a)	Mine Name	:	Koni Simariya Limestone Mine
	(b)	Registration Number	:	IBM/418/2011
	(c)	Category	:	Category- A
	(d)	Type of Working	:	Opencast
	(e)	Postal address	:	Village- Harduaken, Tehsil- Amanganj, Dist- Panna
		State	:	Madhya Pradesh
		District	:	Panna
		Village	:	Harduaken
		Taluka	:	Amanganj
		Post Office	:	Amanganj
		Pin code	:	488441
		Fax	:	
		email	:	<a href="mailto:Suresh.wandhare@jkcement.com">Suresh.wandhare@jkcement.com</a>
		Phone No	:	
	(f)	Police Station	:	Amanganj
	(g)	First Opening date	:	03.05.2022
	(h)	Weekly day of rest	:	One
2		Address for Correspondence	:	
3	(a)	Lease Area	:	3095.23 Ha.
	(b)	Period of lease	:	50 Years
	(c)	Date of Expiry	:	01-12-2070
4		Mineral Worked (Main)	:	Limestone
5		Name of address of the Lessee with Phone, email and fax number	:	J.K. Cement Limited, Village- Harduaken, Tehsil- Amanganj, Dist- Panna, Email Id- <a href="mailto:suresh.wandhare@jkcement.com">suresh.wandhare@jkcement.com</a> , Phone No- 7880192357
		Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Mr. A K Saraogi, J. K. Cement Ltd., Kamla Tower, Kanpur – 208001 (UP), <a href="mailto:ak.saraogi@jkcement.com">ak.saraogi@jkcement.com</a> D.O.A: 01.08.2022
		Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Mr. Suresh Wandhare, Village- Harduaken, Tehsil- Amanganj, Dist- Panna, Email Id- <a href="mailto:suresh.wandhare@jkcement.com">suresh.wandhare@jkcement.com</a> , Phone No- 7880192357,

		Date of Appointment- 03-01-2024
	Name of address of the Manager with Phone, email, fax number and Date of appointment	: Mr. Bijaya Kumar Jena, Village- Harduaken, Tehsil- Amanganj, Dist- Panna, Email Id- <a href="mailto:bijaya.jena@kjcement.com">bijaya.jena@kjcement.com</a> , Phone No-7807068817, Date of Appointment- 31-12-2022
	Mining Engineer Name Qualification Date of Appointment	: Bijaya Kumar Jena B. Tech Mining 31.12.2022
	Geologist Name Qualification, Date of Appointment	: Mr. Amit Dwivedi M.Tech in Applied Geology 25.04.2022
6	Date of approval of Mining Plan/Review of Mining Plan etc.	: No. E 12117 MCDR-MPCOLST/49/2024-JBP-IBM_RO_JBP dated 13.01.2025

### PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

#### Exploration: (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	66	82	
1b	Exploration over lease area for Geological axis 1 or 2	99 BH	102 BH	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Nil	GDS (India), Kolkata. Expenses done against drilling during FY 2023-24 is of Rs. 11256035/-	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	NIL	1898.23	
1e	Balance reserves as on 01.04.2024	Nil	624.904 Million Tonnes	During this FY 4.49 MTPA produced and 3.65 MTPA was dispatched
1f	General remarks of Inspecting officer on geology, exploration etc.	Exploration is going on. The rocks exposed in the Mining Lease area, apparently belong to the Lakheri Limestone Formation of the Bhandar Group. In Koni - Simariya Limestone Mine, the vast area comprising 3095.23 ha consists of a conformable sedimentary package of carbonates as well as siliciclastic rocks. The rocky outcrops could be divided into two NE-SW trending linear zones, viz. (i) a major limestone zone stretching from Pagra in the NW to Koni village in the NE (ii) a comparatively narrow belt of carbonate rocks extending from village Ganiyari, passing through Maharajganj to NW of Boda village. The rocks in the area trend NE-SW to ENE-WSW, with sub horizontal to very low dip ranging from 3 - 5 due SE and SSE. The full sequence of litho-stratigraphic succession is not exposed anywhere within the mining lease area but could be delineated in the bore holes sections. Following litho sequence has been established in the drilled bore holes: Soil and Alluvium Limestone (L-2) Sandstone-Siltstone-Shale(S-2) Limestone (L-1) Sandstone-Siltstone-Shale (S-1) --- An inconspicuous but continuous band of evaporates, mainly Gypsum --- --- Base not Explored --- Please refer to annexure no. 20 for details.		

**Development(2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Two pits were proposed one in Boda village and other in Koni village	Development has been done in all two pits	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	Achieved	
2c	Stripping ratio or ore to OB ratio	1: 0.27	1: 0.36	
2d	Quantity of topsoil generation in m3	52415	66219	
2e	Quantity of overburden generation in m3	492840	631208	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development done at proposed locations.		

**3. Exploitation FY (2023-24)**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	5007909 T	4497039 T	Proposed ROM is inclusive of Cement Grade and Sub Grade in 70 & 30% respectively
3c	Recovery of Salable/usable minerals from ROM production	NA	NA	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	1502372 T	724818 T	Out of Proposed total production of 5007909 Tonnes, it was considered and approved in Mining plan that 30% subgrade will be generated. Now the actual subgrade is stacked separately
3g	Grade of sub-grade mineral generation	CaO - <44% & SiO2 > 12%	CaO - <44% & SiO2 > 12%	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study	Not proposed	Not Done	

	proposed & carried out for sub-grade mineral and reject				
3j	Provision of drilling & blasting in mineral benches	Proposed	Done		
3k	Provision of mining machineries in mineral benches	Proposed	Done		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes		
3m	Total area covered under excavation /pits (Ha.)	32.54	22.073		
3n	Ore to OB ratio for the pit/mine during the year	1.0.27	1.0.36		
3o	Total area put in use under different heads at the end of year	87.19	50.61		
3p	Production of ROM mineral during last five-years period, as Applicable	2022-23	2.0	0.85	All figures in Million Tonnes
		2023-24	5.07	4.49	
3q	General remarks of inspecting officer on method of mining etc.				

#### 4. Solid Waste Management-Dumping (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed	Done	
4b	Location of topsoil, OB & mineral reject dumps	<p>Top Soil – One dump in each village of Boda &amp; Koni.</p> <p>OB – One dump in each village of Boda &amp; Koni.</p> <p>Subgrade – One dump in each village of Boda &amp; Koni.</p> <p>Mine Waste - One dump in each village of Boda &amp; Koni.</p>	<p>Top Soil – One dump in each village of Boda &amp; Koni.</p> <p>OB - One dump in Boda village and 03 dumps in Koni Village.</p> <p>Subgrade - Two dumps in Koni Village.</p> <p>Mine Waste – One dump in Boda Village.</p>	
4c	Number of Dumps within lease area and outside lease area	All are proposed within Lease area	Dumps has been maintained within the lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed near to working pits	Maintained near to working pits	
4e	Number of Active & Alive dumps	08	09	
4f	Number of dead	Not applicable	Nil	

	dumps			
4g	Number of dumps established	Not applicable	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed	Garland drains along dumps has been constructed	
4i	Length of Retaining wall or garland drain all along dump	Proposed	Achieved	
4j	Number of settling ponds	Not proposed	Achieved	
4k	Specific comments of inspecting officer on waste dump management	Dumping is done at en marked places.		

### 5. Solid Waste Management-Backfilling (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling was not proposed	Backfilling not done	
5b	Area under backfilling of mined out area	Not proposed	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Applicable	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Full extraction of mineral is yet to be achieved so no backfilling done.		

### 6. Progressive Mine Closure Plan (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Not Applicable	Not Applicable	
6b	Area available for rehabilitation (Ha)	Not Applicable	Not Applicable	
6c	Afforestation done (ha)	05 Hect	10.20 Ha	
6d	No. of saplings planted during the year	12500	13168	
6e	Cumulative no. of plants	25000	20463	
6f	Any other specific method of rehabilitation	Not applicable	Not applicable	
6g	Cost incurred on watch & care during the year	Not applicable	329200.00	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not applicable	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not applicable	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled	Not applicable	Not applicable	

	area.			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not applicable	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not applicable	Not applicable	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Not applicable	Not applicable	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not applicable	Not applicable	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable	Not applicable	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Not applicable	02 nos. of permanent CAAQMS has been installed to monitor the Environmental data round the clock.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Against 12500 saplings 13168 saplings planted in and around the lease.		

### 7. Mineral Conservation (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Sorting not proposed	Not applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Sorting not proposed	Not applicable	
7c	Different grade of mineral sort out at mine	Sorting not proposed	Not applicable	
7d	Any beneficiation process at mines	Beneficiation not proposed except screening from Crusher	Screening being done in crusher	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

### 8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Separately Stacking of Top soil being done	
8b	Concurrent use or storage of topsoil	Proposed	Storing of top soil is being done	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	Being Done	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Proposed	Not done till FY 2023-24	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining	Not proposed	Not applicable	

	operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	Being done	
8g	Survival rate	90%	94%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tankers deployed at Mines for sprinkling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Sprinkling of water regularly done on Haul road. During the RY 13168 Saplings planted.		

### 9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly and annual returns timely submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes, Mining Engineer and Geologist appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes Furnished.	
9d	Scrutiny of Annual return on afforestation	Yes furnished. 13168 saplings planted with 94% survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Yes furnished	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes furnished	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Yes furnished	
9i	Scrutiny of Annual return on Fixed assets	Yes furnished	
9k	Scrutiny of Annual return on mining Machineries	Yes furnished	