

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

Mine code:38MPR420002

(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	:	03.05.2023

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	Kakra Panna 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	:	Suresh.wandhare@jkcement.com
		Phone No	:	
	(f)	Police Station	:	Amanganj
	(g)	First Opening date	:	27.04.2023
	(h)	Weekly day of rest	:	One
2		Address for Correspondence	:	
3	(a)	Lease Area	:	1594.34 Ha.
	(b)	Period of lease	:	50 Years
	(c)	Date of Expiry	:	22-09-2070
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- suresh.wandhare@jkcement.com , 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), ak.saraogi@jkcement.com 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- suresh.wandhare@jkcement.com , Phone No- 7880192357, Date of Appointment- 03-01-2024
		Name of address of the Manager with Phone,	:	Mr. Sanjay Dwivedi, Village- Harduaken, Tehsil-

	email, fax number and Date of appointment	Amanganj, Dist- Panna, Email Id- sanjay.dwivedi@kjcement.com , Phone No-9893145340, Date of Appointment- 27.04.2023
	Mining Engineer Name Qualification Date of Appointment	: Dasari Suresh Babu B. Tech. Mining 02-01-2024
	Geologist Name Qualification, Date of Appointment	: Mr. Yogendra Kumar MSC Applied Geology 27.04.2023
6	Date of approval of Mining Plan/Review of Mining Plan etc.	: No. E 12104 MCDR-MPCOLST/43/2024-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	NA	NA	
1b	Exploration over lease area for Geological axis 1 or 2	120	150	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not mentioned	M/s ADI Construction Kolkata. Expenses done against drilling sampling etc. during FY 2023-24 is of Rs. 7041075/-	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Not mentioned	771.34	
1e	Balance reserves as on 01.04.2024	263.38	262.40	
1f	General remarks of Inspecting officer on geology, exploration etc.	This is a new mine, exploration is under process. The rocks exposed in the area, under consideration, apparently belong to the Lakheri Limestone Formation of the Bhandar Group. In Kakra-Panna Limestone Mine/ Deposit, the rocks include a conformable package of Limestone, calcareous silt/ sandstone and shale. The rocks in the area trend NE-SW to ENE-WSW, with sub horizontal to very low dip ranging from 3 - 4 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. On the basis of drill hole data and the geological knowledge acquired through repeated regional traverses.		

Development(2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Three blocks were proposed for working during this year. One in each village of Kamtana, Judi & Dewra	Only one block was opened for production in Kamtana village. Another block located near Judi village was opened and only Top soil and OB was removed for around 2.40 hect.	Violation for deviation issued.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	Achieved	

2c	Stripping ratio or ore to OB ratio	1:0.34	1:0.32	
2d	Quantity of topsoil generation in m ³	48024	7885	Violation issued for deviation
2e	Quantity of overburden generation in m ³	1421107	261649	Violation issued for deviation
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development in 3 pits were proposed, carried out in only 01 pit, for which violation issued.		

3. Exploitation FY (2023-24)

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	3	1	Violation issued for Deviation
3b	Quantity of ROM mineral production proposed	4149095.00 T	973848 T	Violation issued for Deviation
3c	Recovery of Salable/usable minerals from ROM production	Captive Consumption	833847.82	Differential quantity 140000 T between ROM and usable grade has been the waste generated and disposed separately.
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	1244730	83000	This quantity has been consumed by judiciously blending with high grade.
3g	Grade of sub-grade mineral generation	Grade was - CaO > 34% - 40% Threshold is - >34% CaO	Grade was - CaO > 34% - 40% Threshold is - >34% CaO	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not applicable	
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.)	19.21	5.59	
3n	Ore to OB ratio for the pit/mine during the year	1.0.34	1.0.32	

3o	Total area put in use under different heads at the end of year	48.29	46.81	
3p	Production of ROM mineral during last five-years period, as Applicable	2023-24	4149095 T	973848 T
3q	General remarks of inspecting officer on method of mining etc.	Production proposal were not achieved for which violation issued.		

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 – Two nos. One in each village of Kamtana & Judi</p> <p>OB – Three nos. One in each vilage</p> <p>Subgrade – Two dumps. One in each village Kamtana & Judi.</p> <p>Mine waste – Three nos. One in each village of Judi, Kamtana & Dewra.</p>	<p>Top Soil – Two dumps created one in each village of Kamtana & Judi.</p> <p>OB – Two dumps created one in each village of Kamtana & Judi.</p> <p>Subgrade – No dump is created</p> <p>Mine waste – One dump is created in Dewra 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)	Near to the working pits	Maintained at specified locations near to working pits	
4e	Number of Active & Alive dumps	All dumps are active	All dumps are active nature	
4f	Number of dead dumps	Not applicable	Not Applicable	
4g	Number of dumps established	Not applicable	Not applicable	
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	2500 M	Garland drain created around 1862 M	
4j	Number of settling ponds	Not proposed	Sufficient no. of settling ponds created intermittently over the Garland drains	
4k	Specific comments of inspecting officer on waste dump management	Dumping is done at proposed location.		

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	Mining started recently, Full extraction of mineral is yet to be achieved. So Backfilling is not proposed during the reporting year.		

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	Annual report of PMCP submitted on time	
6b	Area available for rehabilitation (Ha)	Not Applicable	Not Applicable	
6c	Afforestation done (ha)	0.45	1.91 Ha	
6d	No. of saplings planted during the year	1125	5090	
6e	Cumulative no. of plants	2250	5090	
6f	Any other specific method of rehabilitation	Not applicable	Not applicable	
6g	Cost incurred on watch & care during the year	Not proposed	127250	
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 area.	Not applicable	Not applicable	
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	Not applicable	Not applicable	

	(iii) Method of rehabilitation			
6p	Compliance of Environment monitoring (core zone & buffer zone)	Not applicable	Not applicable	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the year 5090 saplings planted on 1.91 Ha.		

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	ROM mineral Dispatch Done.	
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	Cement Grade	
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	ROM mineral Dispatch is done in lease.		

8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	Separately Stacking of Top soil is not done properly	Violation issued.
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	Not applicable	Not done till FY 2023-24	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable	Not done till FY 2022-23	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	Being done	
8g	Survival rate	90%	91%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tankers deployed at Mines for sprinkling on haul roads. Permanent water sprinklers installed at crusher ramp	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Top soil not stored properly for which violation issued.		

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	
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	Yes furnished.	

	pattern for area under pits, reclaimed area, dumps etc.		
9d	Scrutiny of Annual return on afforestation	Yes, 5090 saplings planted.	
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.	

Details of violations observed during current inspection and compliance position of earlier violation pointed out					
	Violation observed		Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
11(1) and 36 (3) of MCDR 2017	18.03.2025				