

MCDR Inspection Report 2023-24

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri B. L. Bhati (Sr. GM, HOD Mines) Shri Praveen Singh (Mines Manager) Shri Sanjay Arora (Sr GM-Geology)
4) Date of Inspection	27.12.2024
5) Last date of Inspection & Officer	05.01.2024, Shri Prem Prakash, RCOM

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	JK Lakshmi Cement Limestone Mine (ML-2)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	252.105 ha. Forest area- 0.00 Ha. Non forest area- 252.105 Ha.
3	Mine Code	38CHG05026
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/4816/2011
5	Name of the lessee, Address, phone, email and fax number	M/s JK Lakshmi Cement Ltd. J K Puram, Basantgarh, Pindwara, Sirohi, Rajasthan, Pin Code-307019 Email-praveen.singh@durg.jkmail.com Contact No. 7747013818
6	Village	Semariya, Ghikudia & Nandini-Khundini
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pin Code	490036
10	State	Chhattisgarh
11	Post office	Nandani Nagar
12	Nearest police station	Nandani Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	26-10-2016
15	Date of Execution	28-12-2016
16	Date of opening of Mine	24-09-2018
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Arun Kumar Shukla Address-Nehru House 4, Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311112, Email- arun.shukla@jkmail.com Date of Appointment: -01/08/2022

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mukul Srivastva, J K Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036 Phone: 8966909285 Email mukul.srivastava@durg.jkmail.com Date of Appointment: -01/10/2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Praveen Singh J K Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Email praveen.singh@durg.jkmail.com Date of Appointment: -01/05/2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Chandra Shekhar Parteti, B. Tech (Mining) /15 YRS J K Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Date of appointment-01.05.2023 Phone No.7747013852 Email- cs.parteti@durg.jkmail.com
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Arora, M. Tech (App. Geo), 32 Years/Nehru Nagar Bhilai, Date of appointment-01.05.2018 Phone No.9752094047 Email- sanjayarora@durg.jkmail.com
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	-
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved on 04-02-2021 Proposal period- (01-04-2021 -31-03-2026)
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (A or B)	Category-A Fully Mechanized
32	Captive/Non-Captive	Captive

II. SCIENTIFIC MINING

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
A. EXPLORATION: -				
1a	Backlog of Previous Year	Nil	Nil	No backlog for the previous year
1b	Exploration Over Lease area for Geological Axis 1 or 2	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2023-24	Nil	Entire potential mineralized area has been explored under G-1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis 1 or 2	No proposal	Not Applicable	
1e	Balance reserves as on 01/04/2024	Under 111- 27.73 Million Tonne Under 121- 35.69 Million Tonne		As per the submitted Annual Return for FY 2023-24
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2023-24.		

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
B. DEVELOPMENT: -				
2a	Location of development w.r.t. lease area	In between coordinates 540572-540815 & 2368236-2368431	Carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.16	Tonne:Cum
2d	Quantity of topsoil generation in m ³	11715	5100	
2e	Quantity of overburden generation in m ³	39050	12123	Less generation due to less production
2f	General remarks of	The pit developments have been carried out within the		

	inspecting officer on development of pit w.r.t. type of deposit etc.	proposed area as approved in Mining Plan.
--	--	---

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
C. EXPLOITATION: -				
3a	Number of Pit Proposed for Production	One (01)	One (01)	
3b	Quantity of ROM mineral production proposed	150000.00 Tonne	105356.55 Tonne	As per captive plant requirement
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100 %	100 %	
3d	Quantity of mineral reject generation	No proposal	Not applicable	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried out	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting were carried out in mineral benches	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 6 m in overburden and mineral	Yes, suitable	
3m	Total area covered	3.71 Ha. up to end	3.06 Ha. up to end	

	under excavation/pits	of plan period 2025-26	of FY 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.33	1 : 0.16	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use area 15.47 Ha. up to 2025-26	About 4.00 Ha. up to end of FY 2023-24	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 99000 2020-21: 148725 2021-22: 150000 2022-23: 150000 2023-24: 150000	2019-20: 48722.23 2020-21: 80729.50 2021-22: 113884.74 2022-23: 123126.16 2023-24: 105356.55	(All units in MT) As per AR submitted
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by deployment of HEMM with the help of drilling & blasting. Less production is reportedly due to captive plant's requirements.		

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING: -				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Separate dumping of Waste /OB proposed	Separate dumping for Waste /OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Soil Dump 541022-541109 & 2368267-2368400 OB Dump 542163-542249 & 2368362-2368528	Dumping carried out within proposed area	
4c	Number of Dumps within Lease & Outside Lease area	01 Soil and 02 OB Dump	01 Soil and 02 OB Dump	
4d	Location of Dumps, within Ultimate Pit Limit	Proposed beyond UPL	Beyond UPL	
4e	Number of Active & Alive Dumps	03	03	
4f	No of Dead Dumps	-	Nil	
4g	No of Dumps stabilized	No proposal	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Not constructed completely & properly	Violation under 11(1) issued
4i	Length of Retaining Wall or Garland drain along Dumps	Retaining wall 50 meters Garland drain 100 meters	Not constructed completely & properly	
4j	No. of Settling tanks	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Waste disposal carried at proposed area. However, environmental protection measures were not undertaken at the toe of the waste dump near to boundary pillar no.		

		318 and at the places to restrict spillage/wash-off going outside the mining lease as envisaged in Mining Plan for which violation under Rule 11(1) was issued.
--	--	---

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING: -				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has been exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been exhausted fully & thus no proposal was given for backfilling.		

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
F. PROGRESSIVE MINE CLOSURE PLAN: -				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	To be submitted before 01st July every year	PMCP report received in time.	Annual Report submitted on 25.06.2024
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Nil	No area is mined out fully at present
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings	No proposal	Nil	No area has matured for reclamation and rehabilitation purposes

	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1000 Nos. 1.00 Ha. By plantation	873 Nos. About 0.80 Ha. By plantation	Dump was not mature enough for plantation; therefore, the lessee was able to plant 873 saplings in the proposed area
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out	All values of environment parameters were within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Annual PMCP report has been submitted. No any part of ML area got fully exhausted for backfilling purposes.		

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
G. MINERAL CONSERVATION: -				
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	ROM mineral to be fed to crusher plant	ROM is being fed to the crusher for further sizing & dispatched to their captive cement plant	
7c	Different grade of mineral sorted out at mines	Blending by mechanized method	Bench wise blending as per the requirement of the cement plant	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed to crushers for sizing for feeding to the cement plant. No beneficiation is warranted in the case of Limestone.		

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
H. ENVIRONMENT: -				
8a	Separate removal and utilization of topsoil	Proposed for used in plantation	Used for Plantation	
8b	Concurrent use or storage of topsoil	Separate removal and utilization of topsoil proposed	Generated topsoil used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock are proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	No area has matured for restoration
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	Plantation proposed WML-1000 nos.	Within lease area 873 nos. saplings Outside lease area 803 nos. saplings	
8g	Survival rate	Not specified	85 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust through water tanker	Continuous water sprinkling done on haul roads by water tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45: -				
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2023-24		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri Praveen Singh Mining Engineer- Shri Chandra Shekhar Parteti Geologist- Shri	Employed	

		Sanjay Arora		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	4.138 Ha.	4.138 Ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area 873 @ 75% survival rate	Within lease area 873 @ 75% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral reject reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening stock-Nil Production- 105356.55 Closing stock-Nil	ROM Opening stock-Nil Production- 105356.55 Closing stock-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price and cost of production – Rs. 377.00/Tonne Sale value-Nil	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 531327748 /- including land, building, plant and machinery etc.	Rs. 531327748 /- including land, building, plant and machinery etc.	
9k	Scrutiny of Annual return on mining machineries	Backhoe-01, Tipper-05, Dozer-01	Observed deployed	

10. Details of violations observed during current inspection: - Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

11. Analysis of DAI and submission of the scrutiny reports in the MISPAS portal.
As per the directives issued by the CCOM (I/C) dated 23.09.2024, the digital imageries (Drone Data) submitted by the lessee has been analysed and some deficiencies are observed. Hence, returned back to lessee for rectification.

प्रेम प्रकाश / Prem Prakash
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur