

MCDR Inspection Report 2023-24**General:**

Sl. No.	Particulars	Details
1	Name of the Mine	JK LAKSHMI LIMESTONE MINE-1
2	Date of Inspection:	09/08/2024
3	Name of Inspecting Officer	Shri Prasant Kumar Sahu, Asst. Controller of Mines
4	Name of official accompanying inspection	Shri B. L. Bhati, Mines Manager
5	Last date of Inspection & Officer	02/11/2023 & Shri Deepak Chinchkhede, Asst. Controller of Mines
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	267.695 Ha (Forest Land – 0.0 Ha)
7	Mine code	38CHG05017
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/4816/2011
9	Name of the Lessee, Address, Phone, email and fax number	J. K. Lakshmi Cement Ltd. Malpuri-Khurd, Khasadih, Post- Ahiwara, Tehsil- Dhamdha District - Durg, Chhattisgarh-490036
10	Village	Semariya, Ghikudiya & Nandini- Khundini
11	Taluka/Mandal	Dhamdha
12	District	Durg
13	Pin code	4920036
14	State	Chhattisgarh
15	Post Office	Ahiwara
16	Nearest Police Station	Nandini –Nagar
17	Nearest Railway Station	Durg
18	Date of Grant of Mining Lease	19/07/1994
19	Date of Execution	19/07/1994
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01/07/2011
22	Date of First Renewal, if applicable and its period & expiry	From 19/07/1994 to 18/07/2044
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	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@jkm.com Date of Appointment: -01/08/2022

26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mukul Shrivastava Address: - JK 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
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri B. L. Bhati, Address: - JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone: 9752094049. Email : blbhati@durg.jkmail.com Date of Appointment :- 15/06/2009
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Ratnesh Singh (B. TECH MINING) 11 YEARS Phone: 7747019145 ratnesh.singh@durg.jkmail.com Date of Appointment: - 23/09/2019
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining plan approved on 06/05/1994 Proposal Period 19.07.1994 to 31.03.1999
31	Date of Approval of Review/Scheme of Mining/Modified Review/Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved on 20/12/2023 Proposal Period 2024-25 to 2028-29
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
35	Captive/Non-Captive	Captive
36	Present EC Status	Letter No. J-11011/1170/2007-IA II (I) dated 13.05.2009 ROM Mineral- 4800000.00 (Tonnes)
37	Status of Financial Assurance (Amount and Validity)	Rs. 482.10 (Lac INR) valid upto 31.03.2029

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:**1.0 Exploration:**

Sl. No.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
1a	Backlog of previous year proposals	Nil	Nil	
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	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Nil	Entire lease area of 267.695 ha explored under G1 category.
1e	Balance reserves as on 01.04.2024 (in Million Tonnes)	Under (111): 160.47 Million Tonnes Under (211): 33.41 Million Tonnes		Deficiencies observed in the submitted Annual Return and the same was intimated to the lessee for rectification. As on date the observed deficiencies have been rectified.
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2023-24.		

2.0 Development:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	Development proposed in two pits as Pit -I & Pit -II in between UTM coordinates (Pit -I) E 541061-542214 N 2367897	Carried out within the proposed area	

		2368367 (Pit -II) E 542458-542854 N 2368545- 2368883		
2b	Separate benches in topsoil overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral.	Top Soil -1 m. Overburden- 1-3 m Mineral -3 to 9 m
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	Tonne:m3 No generation OB/Waste reported
2d	Quantity of topsoil generation in m ³	No proposal	Nil	
2e	Quantity of overburden generation in m ³	No proposal	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Production and development were carried out within the proposed area. No proposal for Topsoil/OB/Waste during the year 2023-24. No generation of OB/Waste reported during the year.		

3.0 Exploitation:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
3a	Number of pits proposed for production	Two Nos. (02)	Two Nos. (02)	
3b	Quantity of ROM mineral production proposed in Tonne	3199838	2887328.24	
3c	Recovery of Saleable/Usable mineral from ROM production in Tonne	95 %	100 %	Mineral rejects/low grade blended with high grade
3d	Quantity of mineral reject generation in Tonne	167512.5 Tonne	Nil	No generation of Mineral Rejects reported
3e	Grade of mineral reject generation and threshold value declared	Not Specified	NA	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	Blasted material from the mines is being fed to the crusher
3i	Any analysis or beneficiation study proposed & carried out for	No Proposal	No such study carried out	

	sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting proposed in mineral benches	Deep hole drilling and blasting is carried out in mineral benches as proposed	Spacing: 4/5mtrs. Burden: 3.0/4mtrs. Depth: 9.5 mtrs. Dia.: 110 mm
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed	Mining Machineries deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in Mining Plan	Benches of 9 meter height in limestone and 3 meter in overburden	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation /pits in Ha.	53.92 Ha up to end of plan period 2023-24	53.42 Ha. up to end of F.Y. 2023-24	
3n	Ore to OB ratio for the pit/mine during the year	1:0.00	1:0.00	Tonne:m3 No generation OB/Waste reported
3o	Total area put in use under different heads at the end of year in Ha.	Total put to use- 74.77 Ha. up to 2023-24	Total area 63.13 Ha. up to 2023-24	
3p	Production of ROM mineral during last five-years period, as Applicable (Tonne)	2019-20: 3199838 2020-21: 3199933 2021-22: 3199980 2022-23: 3199885 2023-24: 3199838	2019-20: 2823583.27 2020-21: 2507518.83 2021-22: 2524993.86 2022-23: 2568455.44 2023-24: 2887328.24	(All units in Tonne) Figure given as mentioned in Approved RMP and submitted Annual Returns
3q	General remarks of inspecting officer on method of mining etc.	Open cast mining operation being carried by mechanized method using excavator and dumper combination with the help of deep hole drilling & blasting.		

4.0 Solid Waste Management-Dumping:

S.N	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No proposal	Nil	

4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	Within lease area, one (01) Top Soil stack at the southern side of the ML area
4d	Location of dumps w.r.t. ultimate pit limit	No proposal	Nil	Beyond UPL
4e	Number of active & alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilized	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Berm and garland drain maintained around the dump	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	No Topsoil/OB/Waste were generated during the year. One (01) Top Soil stack observed at the southern side of the ML area.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	Area is not matured for reclamation and rehabilitation
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	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No any part of ML area is mined out fully to carry out backfilling, reclamation etc.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
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	i) No Proposal ii) 1.00 Ha. iii) 1000 Nos. iv) Not specified v) No Proposal	i) Nil ii) About 1.00 Ha iii) Within lease area 951 Nos. and Outside lease area 803 Nos. iv) Within lease area 18158 Nos. and Outside lease area 94821 Nos. v) Nil	As per Annual Return
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No Proposal	Nil	
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Being carried out	All environment parameters are within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report has been submitted. Plantation has been carried out as per proposal. No area has got matured for reclamation and rehabilitation purposes.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral to be fed to crusher plant	ROM is being fed to the crusher for further sizing & dispatched to their captive cement plant	
7b	Method of grade-wise mineral sorting i.e. Manual or Mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sort out at mine	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing is done, after which mineral is conveyed to plant
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine is being fed to the crusher for further sizing & dispatched to their captive cement plant.		

8.0 Environment:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
8a	Separate removal and utilization of topsoil	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
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 saplings in 2023-24	Within lease area 951 Nos. and Outside lease area 803 Nos.	As per the AR 2023-24
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	Water sprinkling being carried out on haul roads to suppress the dust generated	

8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	The aesthetic beauty in and around the mine area was good.
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9.0 Compliance of Rule 45:

Sl. No.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being regularly submitted		AR submitted on 25.06.2024
		AR Submitted up to 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-B. L. Bhati Mining Engg.- Ratnesh Singh Geologist-V. K. Singh	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area 63.13 Ha. up to 2023-24	Total area 63.13 Ha. up to 2023-24	
9d	Scrutiny of Annual return on afforestation	Within lease area- 951 Nos. and Outside lease area- 803 Nos. @ 85% survival rate	Within lease area - 951 Nos. and Outside lease area - 803 Nos. @ 85% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore (in Tonnes)	ROM: Opening stock-154398.940, Production-2887328.240, Closing stock-512468.920 Cement Grade: Opening stock-371925.77, Production-2529258.26, Dispatches-2846742.21 Closing stock-54441.82	ROM: Opening stock-154398.940, Production-2887328.240, Closing stock-512468.920 Cement Grade: Opening stock-371925.77, Production-2529258.26, Dispatches-2846742.21 Closing stock-54441.82	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price & cost of production- Rs 363.67/Tonne Sale Value: Nil	Captive consumption	
9i	Scrutiny of Annual return on Fixed assets	Rs. 833924607.00 including land, machinery & building	Rs. 833924607.00 including land, machinery & building	

9k	Scrutiny of Annual return on mining Machineries	Back Hoe-09, Dumper/Tipper-15, Drill Machine-03, Dozer-01, Water Tanker-01	Deployed	
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10- Details of violations observed during current inspection: -

Violation of Rule 45(7) of MCDR 2017 have been pointed out after current inspection. No outstanding violation.

प्रशान्त कुमार साहू / Prasant Kumar Sahu
सहायक खान नियंत्रक / Assistant Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur