

MCDR Report

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri B L Bhati (Mines Manager) Sr. GM Mines
4) Date of Inspection	20/02/2023
5) Date of Previous Inspection	11/03/2022

GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	JK Lakshmi Cement Limestone Mine (ML1)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	267.695 Ha (Forest Land – 0.0 Ha)
3	Minecode	38CHG05017
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
5	Name of the lessee, Address, phone, email and fax number	M/s J K Lakshmi Cement Limited, Malpuri-Khurda, Khasadih, Post- Ahiwara, Tehsil- Dhamdha District - Durg, Chhattisgarh-490036
6	Village	Semariya , Ghikudiya & Nandini- khundini
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pin code	4920036
10	State	Chhattisgarh
11	Post office	Ahiwara
12	Nearest police station	Nandini –Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	19/07/1994
15	Date of Execution	19/07/1994
16	Date of opening of Mine	01/07/2011
17	Date of first Renewal, if applicable and its period & expiry	From 19/07/1994 to 18/07/2044
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and	Shri Arun Kumar Shukla, Address-Nehru House 4 , Bahadur Shah Zafar Marg,

	date of appointment	New Delhi-110002, Phone- 01123311112, Email- arun.shukla@jkm.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 Shrivastava Address: - JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone : 8966909285 Email : mukul.srivastava@durg.jkm.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 B L Bhati JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone: 9752094049. Email : blbhati@durg.jkm.com Date of Appointment :- 15/06/2009
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Ratnesh Singh (B.Tech Mining) 11 YEARS Phone : 7747019145 ratnesh.singh@durg.jkm.com Date of Appointment: - 23/09/2019
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Vrindesh Kumar Singh (M.Tech App.Geo) 14YEAR Phone : 9752094045 JK Lakshmi Cement Ltd. Vill. - Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036 vksingh@durg.jkm.com Date of Appointment: - 09/07/2018
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	09/01/2019 Period 2019-20 to 2023-24
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 Mining Plan and Progressive Mine Closure Plan, approved on 09.01.2019 dated 12/02/2021 Proposal Period: 2019-20 to 2023-24
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive

SCIENTIFIC MINING

[Data in respect of financial year (2021-22) or cumulative, as applicable]

Sl. No	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
A. EXPLORATION:-				
1a	Backlog of Previous Year	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. 2021-22	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis 1 or 2	11 no. of boreholes were proposed in the FY 2022-23 as per approved Review of Mining Plan to cover the entire area in G1	11 Nos. boreholes drilling reported carried out in 2022-23 till the date of inspection	
1e	Balance reserves as on 01/04/2022	Under (111): 123.99 Million Tonnes Under (211):22.41 Million Tonnes		As per RMP approved and AR submitted for the year 2021-22
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. 2021-22. However, 11 no. of bore holes were proposed in the FY 2022-23 to cover the entire area in G1.		

Sl. No	Item	Proposals	Actual Work	Remarks
B. DEVELOPMENT:-				
2a	Location of development w.r.t. lease area	Development proposed in two block (02) as shown in production and development plan E 541065-542110 N 2367900-2368280 (Block -I) E 542455-542860 N 2368544-2368883 (Block -II)	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.	Top Soil -1 m Overburden - 1-3 m Mineral -3 to 9 m
2c	Stripping ratio or ore to OB ratio	1 : 0.035	1 : 0.023	Tonne:m3
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	112960 m3	58327.802 m3 (81659 Tonne)	As per AR submitted for 2021-22
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Production & development was carried out within the proposed area as per the approved plans.		

Sl. No	Item	Proposals	Actual Work	Remarks
C. EXPLOITATION:-				
3a	Number of Pit Proposed for Production	2	2	
3b	Quantity of ROM mineral production proposed	3199980.00 Ton	2524993.86 Ton	
3c	Recovery of Sailable/ Usable Mineral from ROM Production	95 %	100 %	Mineral rejects/low grade blended with high grade
3d	Quantity of mineral reject generation	168420 Tonne	Nil	No generation of Mineral Rejects
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 / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Blasted material from the mines is fed to the crusher.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	No such study carried	
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	Yes, HEMMs	HEMMs deployed	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 9 meter in limestone and 3 meter in overburden	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation/pits	53.92 Ha up to end of RMP period 2023-24	45.183 Ha. up to end of F.Y. 2021-22	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.035	1 : 0.023	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use-74.77 Ha. up to 2023-24	Total area 57.415 Ha. up to 2021-22	As per AR submitted for 2021-22
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 2399948 2018-19: 2399975 2019-20: 3199838 2020-21: 3199933 2021-22: 3199980	2017-18: 2255550.14 2018-19: 2363980.5 2019-20: 2823583.27 2020-21: 2507518.83 2021-22: 2524993.86	(All units in Tonne) Figure given as mentioned in Approved RMP and submitted AR
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of deep hole drilling & blasting.		

Sl. No	Item	Proposals	Actual Work	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING:-				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Separate dumping of Topsoil & OB proposed	Separate dumping of Topsoil & OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	E542800-E543100 & N2368270-N2368950	Waste dumping being carried out as proposed.	
4c	Number of Dumps within Lease & Outside Lease area	01-Mineral Reject stack/dump 01-Top soil stack	01-Mineral Reject stack/dump 01-Top soil stack	Within lease area
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Proposed beyond Ultimate pit limit	Beyond UPL	
4e	Number of Active & Alive Dumps	01-Mineral Reject stack/dump 01-Top soil stack	01-Mineral Reject stack/dump 01-Top soil stack	
4f	No of Dead Dumps	No proposal	NIL	
4g	No of Dumps stablished	No proposal	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	No proposal	Berm and garland drain made around the dump	
4i	Length of Retaining Wall or Garland drain along Dumps	No proposal	NA	

4j	No. of Settling tanks	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Mineral rejects and top soil being stacked at earmarked place.		

Sl. No	Item	Proposals	Actual Work	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	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of topsoil for plantation and storage for future use	Being used concurrently for plantation as well as stacked at earmarked place	
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 given for backfilling.		

Sl. No	Item	Proposals	Actual Work	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 30.06.2022
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	i) No Proposal ii) 1.00 Ha. iii) 1000 Nos - v) No Proposal	i) Nil ii) About 1.00 Ha iii) 2581 Nos - v) Nil	As per Annual Return

	rehabilitation vi) Cost incurred on watch & care during the year	-	-	
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 rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environmental 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 closure operations	The lessee has carried out the PMCP activities as per the proposal. Monitoring of environmental parameters was done regularly.		

Sl. No	Item	Proposals	Actual Work	Remarks
G. MINERAL CONSERVATION:-				
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch after crushing	Blasted material is sent 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 sorted out at mines	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 through

				covered belt conveyors
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed to crushers at the plant for sizing and feeding to cement plant.		

Sl. No	Item	Proposals	Actual Work	Remarks
H. ENVIRONMENT:-				
8a	Separate removal and utilization of topsoil	Separate dumping of Topsoil & OB proposed	Separate dumping of Topsoil & OB carried out	Utilized for plantation within the lease area
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil for plantation and storage for future use	Utilized for plantation within the lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects is 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	
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 2021-22	Within lease area-2581 nos. saplings	As per the AR 2021-22
8g	Survival rate	Not specified	85%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker	Continuous water sprinkling done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.		

Sl. No	Item	Comments	Remarks
I. COMPLIANCE OF RULE-45:-			
9a	Status of Submission of Monthly & Annual	MR being regularly submitted AR Submitted up to 2021-22	

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 57.415 Ha. up to 2021-22	Total area 57.415 Ha. up to 2021-22	
9d	Scrutiny of Annual return on afforestation	Within lease area: 2581 @ 85% survival rate	Within lease area: 2581 @ 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 graded ore	ROM: Opening stock- Nil, Production-2524993.00 tonnes, Closing stock- Nil	ROM: Opening stock- Nil, Production-2524993.00 tonnes, Closing stock- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price & cost of production- Rs 287.00/Ton Sale Value: Nil	Ex mine price & cost of production- Rs 287.00/Ton Sale Value: Nil	
9i	Scrutiny of Annual return on fixed assets	Rs. 873230171 including land, machinery & building	Rs. 873230171 including land, machinery & building	
9k	Scrutiny of Annual return on mining machineries	Back Hoe-09, Dumper/Tipper-25, Drill Machine-03, Doze-01,	Deployed	

10. Details of violations observed during inspection: - No any serious violations are observed during the current inspection.

Date: - 16.06.2023

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