

MCDR INSPECTION REPORT

General

S N	Particulars	Details
1	File no	CHG/DRG/LST-26/RPR
2	Name of the Mine	JK LAKSHMI LIMESTONE MINE-1
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	267.695 Ha (FOREST LAND – 0.0 HA)
4	Mine code & Accompanying person	38CHG05017 & B.L.Bhati (Mine Manager)
5	Date of Inspection	11/03/2022
6	Name of official accompanying inspection	Shri Rajesh Das Deputy Controller of Mines Raipur Regional IBM Office
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
8	Name of the lessee, Address, phone, email and fax number	JK LAKSHMI CEMENT LTD. Malpuri-Khurd, Khasadih, Post- Ahiwara, Tehsil- Dhamdha District - Durg, Chhattisgarh-490036
9	Village	Semariya , Ghikudiya & Nandini-khundini
10	Taluka/Mandal	DHAMDHA
11	District	DURG
12	Pincode	4920036
13	State	CHHATISGARH
14	Post office	AHIWARA
15	Nearest police station	NANDINI –NAGAR
16	Nearest Railway station	DURG
17	Date of Grant of Mining Lease	19/07/1994
18	Date of Execution	19/07/1994
19	Date of opening of Mine	01/07/2011
20	Date of first Renewal, if applicable and its period & expiry	From 19/07/1994 to 18/07/2044
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sushil Kumar Wali Address-Nehru House 4 , Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311112, Email- skwali@jkmail.com Date of Appointment :-06/11/2008
24	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

25	Name of the Mines 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
26	Name of the Mining Engineer & Geologist, 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.jkmail.com Date of Appointment: - 23/09/2019 Shri VRINDESH KUMAR SINGH (M.TECH APP.GEO) 14YEAR Phone : 9752094045 Address: - JK Lakshmi Cement Ltd. Vill. - Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036 vksingh@durg.jkmail.com Date of Appointment: - 09/07/2018
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES
28	Date of Approval of Review 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 2023-2024
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	09/01/2019
30	Mineral(s) granted in lease and proved for mining	LIMESTONE
31	Method of Mining(Open cast, Underground)	OPENCAST
32	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
33	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/Review of mining.

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2021	Under (111): 126.389 Million Tonnes Under (211): 22.416 Million Tonnes	Under (111): 127.38 Million Tonnes Under (211): 22.416 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The deposit is flat and regular deposit and lease area broadly explored in G1.		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 541251-542100 N 2367902-2368364 (Block -I) E 542458-542854 N 2368545-2368883 (Block -II)	E 541251 - E 542083 N 2367902 - N 2368364 (Block -I) Working not done as per proposal in Block -II and development is very less.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil -1 m Overburden 1-3 m Mineral -3 to 9 m	Top Soil -1 m Overburden - 1-3 m Mineral -3 to 9 m	
2c	Stripping ratio or ore to OB ratio	1 : 0.036	1 : 0.008	
2d	Quantity of topsoil generation in m ³	114880	20286	
2e	Quantity of overburden/waste generation in m ³	114880	20286	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is very less w.r.t to proposal and it is less than 20% of the proposal.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of Limestone production proposed	3199933.000 Ton	2507518.830 Ton	
3c	Recovery of salable/usable mineral from ROM production	3199933.000 Ton	2507518.830 Ton	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	Blast hole sample analysis.	
3j	Provision of drilling & blasting in mineral benches	Deep hole Drilling & Blasting	Deep hole drilling & blasting is in practice. Spacing: 4/5mtrs. Burden: 3.0/4mtrs. Depth: 9.5 mtrs.	

			Dia. : 110 mm	
3k	Provision of mining machineries in mineral benches	Yes	Yes	Mining is done with fully Mechanization with Back-hoe & Tipper Combination
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	44.00 Ha.	40.153 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.036	1 : 0.008	
3o	Total area put in use under different heads at the end of year	57.00 Ha	55.843 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2016-17: 2399985 Metric Tonnes Yr- 2017-18: 2399948 Metric Tonnes Yr- 2018-19: 2399975 Metric Tonnes Yr- 2019-20: 3199838 Metric Tonnes Yr- 2020-21: 3199933 Metric Tonne	Yr- 2016-17: 1699171.08 Metric Tonnes Yr- 2017-18: 2255550.14 Metric Tonnes Yr- 2018-19: 2363980.5 Metric Tonnes Yr- 2019-20: 2823583.27 Metric Tonnes Yr- 2020-21: 2507518.830 Metric Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method using HEMM but most of production is carried from Block-I and from Block-II negligible production done.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Shown in Plan	As per planed	
4b	Location of topsoil, OB & mineral reject dumps	E541934-E542195 & N2368436-N2368628	E541934-E542195 & N2368436-N2368628	Active dump
4c	Number of dumps within lease area and outside lease area	6	6	Within lease area

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per plan	As per plan	
4e	Number of active & alive dumps	6	6	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	NIL	NIL	
4h	Whether Retaining wall or	NIL	No proper garland drain	

	garland drain all along dumps are there		observed. garland drain either filled with silt or no drain.	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	There are many dumps some are small dump but it was observed that protective measure not taken for stabilization of dump i.e. retaining wall, garland drain, etc.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NIL	NIL	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Use in Plantation & stock	Use in Plantation & stock	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

Progressive Mine Closure Plan

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.	Yes	Yes, Annual report submitted on PMCP as given Format in Annexure-20.	
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	NIL	NIL	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L *B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of	i. 1000 nos in 1 ha.	i.4536 nos afforestation	

	waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	area	reported ii.Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Sampling station fixed in core zone and buffer zone.	Complied Core Zone:- Near Mines office. Buffer Zone:- 1. Hardi Village 2. Ghikuria Village 3. Nandini-Khundini 4. Pitora Village.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly as per proposal.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral grade-wise sorting within lease area.	ROM Mineral grade-wise sorting within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mining is done in two three faces and in different block therefore low grade is blend with high grade to get the required grade.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000	4526	
8g	Survival rate	70	65	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer	The lessee is taking care of all environmental preventive		

on aesthetic beauty in and around mines area	measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.
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Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Feb. 2021 A.R. submitted upto- 2020-21		
S.N.	Item		Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Shri Ratnesh Singh, Geologist-Shri V.K.Singh Manager-Shri B.L.Bhati	Mining Engineer, Manager & Geologist present during mine visit.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits - 40.153 ha., Dump & Stock-8.09 ha., Infrastructure & roads 3.5 ha., Reclaimed area-4.1 ha.	The land use given is broadly same but the area given under reclaimed is not correct.	Violation pointed out for reclaimed area.
9d	Scrutiny of Annual return on afforestation	4526 nos	Broadly done	
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	362492 tons	Mostly Subgrade material	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price Rs 254/- production cost Rs 254/-		
9i	Scrutiny of Annual return on fixed assets	Rs 907438835/-	The fixed asset is broadly of land and machineries.	
9k	Scrutiny of Annual return on mining machineries	Yes given		

Machinery statement and performance is given as under.

	Equipment	Bucket cap	Output/ hr (t/hr)
1	AIR COMPRESSOR (2 Nos)	5.100 CUM/MN	Non Electrical
2	BACK HOE (4 Nos)	1.400 CUM	Non Electrical
3	BACK HOE (5 Nos)	0.900 CUM	Non Electrical
4	CRUSHER (1 Nos)	800.000 T/H	Electrical
5	DOZER (1 Nos)	380.000 HP	Non Electrical
6	EXPLOSIVE VAN (1 Nos)	7.000 TONNE	Non Electrical

7	JEEP/TRACTOR (1 Nos)	30.000 HP	Non Electrical
8	TIPPER (25 Nos)	16.000 CUM	Non Electrical
9	ELEC. MOTOR	40.000 HP	Electrical
10	ELEC. MOTOR	40.000 HP	Electrical
11	WATER TANKER	20000.000 LITRE	Non Electrical

Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The earlier violations taken compliance and during present inspection the violation pointed out under Rule 11(1),37(2) & 45 of MCDR,2017.

Shri R. K. Das
Deputy Controller of Mines
Raipur Regional Office