

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Shri R. K. Das, Sr Asstt. Controller of Mines, Indian Bureau of Mines, Raipur
2	Date of inspection	10-12-2020
3	Name of the Mine	M/s JK Lakshmi Cement Ltd
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	267.695Ha
5	Mine Code	38CHG05017
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
7	Name of the lessee, Address, phone, email and fax number	Shri B.L. Bhati (Senior General Manager, Mines) Malpuri-Khurd, Khasadih, Post- Ahiwara, Tehsil- Dhamdha District - Durg, Chhattisgarh-490036
8	Village	Malpuri-Khurd & Khasadih
8	Taluka/Mandal/District	Durg
10	State	Chhattisgarh
11	Post office & PIN	Ahiwara &490036
12	Nearest police station	Nandini Nagar
13	Nearest Railway station	Power House
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	19.7.1994 to 18.7.2014 (20 Years)
18	Date of second Renewal, if applicable and its period & expiry	19.07.1994 to 18.07.2044(50 Years)
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	04.03.2015
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Shri Sushil Kumar Wali</b> <b>Address-Nehru House 4 , Bahadur Shah Zafar Marg, New Delhi-110002,</b> <b>Phone- 01123311112,</b> <b>Email- <a href="mailto:skwali@jkmil.com">skwali@jkmil.com</a></b> Date of Appointment :-06/11/2008
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Shri MUKUL SHRIVASTAVA</b> Address: - JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036.

		Phone : 8966909285 Email : <a href="mailto:mukul.srivastava@durg.jkmail.com">mukul.srivastava@durg.jkmail.com</a> 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 Address: - JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone: 9752094049. Email : <a href="mailto:blbhati@durg.jkmail.com">blbhati@durg.jkmail.com</a> 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 Address: - JK Lakshmi Cement Ltd. Vill. - Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone : 7747019145 Email : <a href="mailto:ratnesh.singh@durg.jkmail.com">ratnesh.singh@durg.jkmail.com</a> Date of Appointment :- 23/09/2019
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Shri VRINDESH KUMAR SINGH appointed as geologist and Shri RATNESH SINGH appointed as Mining Engineer under rule 42 Duties carried out as per rule 43,44.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	09/01/2019
26	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
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast mining
29	Category (Fully Mechanised, Others or Manual)	A Category
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	4.8 Million tonnes (For both mines)& VALIDITY - 18.07.2044
32	Status of Financial Assurance	2, 24, 31,000/-.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

### **1.0 Exploration**

SN	Item	Proposals	Actual work	Remarks
----	------	-----------	-------------	---------

1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: <b>267.695 Ha</b> Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised:	Under G1 Category: <b>267.695 Ha</b>	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N/A	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	nil	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): <b>129.343</b> Million Tonnes Under (211): <b>22.416 Mill.</b>	Under (111): <b>128.780</b> Million Tonnes Under (211): <b>22.416</b> Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Broadly the area explored under G1 and the deposit is flat deposit and stratified deposit.		

## **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location) Top Soil , OB & Mineral	E 541251-542034 N 2367931-2368284 (PIT-1) E 542483- E542829 N2368570- 2368858	Broadly as per proposal	.....
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	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 : 0.003	1 : 0.0038	
2d	Quantity of topsoil generation in m3	10780	1010	
2e	Quantity of overburden generation in m3	10780	7912	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

## **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	

3b	Quantity of ROM mineral production proposed	3199838.000 Tonn	2826238.59 Tonn	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	0.000	0.000	
3e	Grade of mineral reject generation and threshold value declared	N/A.	N/A.	
3f	Quantity of sub-grade mineral generation	67365.000	180040.89	--
3g	Grade of sub-grade mineral generation	CaO – 34-38% MgO – 4.5 – 5%	CaO – 34-38% MgO – 4.5 – 5%	
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	N/A	N/A	
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	
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	34.02 Ha.	32.57 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.003	1 : 0.0038	
3o	Total area put in use under different heads at the end of year	Pit- 34.02 Ha.	32.57 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 2400000 Metric Tonnes Yr- 2016-17: 2399985 Metric Tonnes Yr- 2017-18: 2399975 Metric Tonnes	Yr- 2015-16 1448333.00 Metric Tonnes Yr- 2016-17: 1699171.08 Metric Tonnes Yr- 2017-18: 2259822.76 Metric Tonnes	

		Yr- 2018-19: 2399948Metric Tonnes Yr- 2019-20: 3199838.000 Metric Tonnes	Yr- 2018-19: 2384208.57Metric Tonnes Yr- 2019-20: 2826238.59 Metric Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by Shovel-Dumper combination with open cast mining using deep hole drilling blasting. The work is done broadly as per proposal.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Shown in Plan	As per planed	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	1 dump for Sub grade& one dump for Top Soil	1 dump for Sub Grade one dump for Top Soil	
4c	Number of dumps within lease area and outside lease area	7	7	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	As per plan	As per plan	
4e	Number of active & alive dumps	7	7	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Garland drain made all along dumps.	
4i	Length of Retaining wall or garland drain all along dump	Nil	2400 mtrs. (1X1MTR.)	
4j	Number of settling ponds	N/A	N/A	
4k	Specific comments of inspecting officer waste Dump management	There are many dumps but waste dump is properly managed by garland drain and height is also not more as mine is 10 years old.		

#### **5.0 Solid Waste Management-Backfilling**

SN	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	n/a	n/a	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Use in Plantation & stock	Use in Plantation & stock	

5d	Total area fully reclaimed & rehabilitated	n/a	n/a	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. 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 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	Nil	NA	
6d	Compliance of rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i). 1000 ii) 1.0 Ha. III) plantation	2200 2.0 Ha.plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Sampling station fixed in core zone and buffer zone.	Complied <b>Core Zone:-</b> Near Mines office. <b>Buffer Zone:-</b> 1. Hardi Village 2. Ghikuria Village 3. Nandini-Khundini 4. Pitora Village.	
6f	General remarks of inspecting officer on PMCP compliance	Nil		

	& progressive	
--	---------------	--

## **7.0 Mineral Conservation**

SN	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	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Low grade blend with high grade to dispatch the desire grade of limestone.		

## **8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	yes	yes	Utilised for plantation along the lease boundary.
8b	Concurrent use or storage of topsoil	yes	yes	As per plan
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	yes	yes	As per plan
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 44)	A few number of plant existed before mining operation started	Total 17165 plants planted within lease area	
8g	Survival rate	70	65	
8h	Water sprinkling on roads to control airborne dust	yes	yes	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee is taking care of environmental preventive measures 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.
----	---	---

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Nov.2020 A.R. submitted upto- 2019-20	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>yes</b>	Mining Engineer & Manager is Shri B.L.Bhati, Geologist Shri Virendra Kumar Singh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Yes</b>	Area O/C working 32.57 ha.,infrastructure and road 3.31,top soil and sub grade 2.981	
9d	Scrutiny of Annual return on afforestation	<b>yes</b>	2200 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	<b>Nil</b>	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>Nil</b>	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>yes</b>	Ex. Mine price & production cost Rs 251.44/-	
9i	Scrutiny of Annual return on fixed assets	<b>yes</b>	Rs 927048264/-	
9k	Scrutiny of Annual return on mining machineries	<b>yes</b>		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

The earlier inspection is taken compliance and during present inspection Rule 11(1) & Rule 45 found violated.

**(Rajesh Kumar Das, Senior Assistant Controller of Mines)**