

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation ,Name of Accompanying person	Shri R. K. Das Sr. Asstt. Controller of Mines, Indian Bureau of Mines, Raipur  Shri Dinesh Singh,Mine Manager
2	Date of inspection	10/12/2020
3	Name of the Mine	JK Lakshmi Cement Limestone Mine -2
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	252.105Ha.
5	Mine Code	38CHG05026
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
7	Name of the lessee, Address, phone, email and fax number	M/s JK Lakshmi Cement ltd Malpuri-Khurd, Khasadih, Post- Ahiwara, Tehsil- Dhamdha District - Durg, Chhattisgarh-490036
8	Village	ML- 252.105 Ha. Villages(Semariya, Ghikuria &Nanadini- Khundini)
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	26.10.2016
15	Date of Execution	28/12/2016
16	Date of opening of Mine	01/05/2018
17	Date of first Renewal, if applicable and its period & expiry	28.12.2016 to 27.12.2066 (50 Years)
18	Date of second Renewal, if applicable and its period & expiry	N/A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N/A.
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,</b> <b>New Delhi-110002,</b> <b>Phone- 01123311112,</b> <b>Email- <a href="mailto:skwali@jkm.com">skwali@jkm.com</a></b> Date of Appointment :-01/05/2018
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- MalpuriKhurd, 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 Dinesh Singh Address :-JK Lakshmi Cement Ltd. Vill- MalpuriKhurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone :8966909194. Email : dineshsingh@durg.jkmail.com Date of Appointment :- 01/05/2018

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Birendra banjare Address :- JK Lakshmi Cement Ltd. Vill- MalpuriKhurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone :7747019156  Email : birendra.banjare@durg.jkmail.com  Date of Appointment :- 01/05/2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Shri Sanjay Arora appointed as geologist and Shri Birendra Banjare 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.	Modified Mining Plan 11.07.2018 for the period 2016-17 to 2020-21 with proposal period 2018-19 to 2020-21
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
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 Mine ML-1 267.695 Ha. & ML-2 -252.105 Ha.)

32	Status of Financial Assurance	25,90,88,640/-.
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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	28 nos	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 <b>58.9412 Ha</b> .Category:	Under G1 Category: <b>57.0807 .0Ha</b> Under G2 <b>29.75 Ha</b> .category: 0.0 Ha  Under G3 category: <b>61.79 Ha</b>	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	CDA, NAGPUR	18.46 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 68.119 Ha.	190.315 Ha. In Geological axis G1	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	34.319 million tons	34.326 million tons	
1f	General remarks of inspecting officer on geology, exploration etc.	The limestone is occurring in bedded formation striking almost east-west. The general slope of the area is about 2-3 degree. Limestone is flaggy in nature, predominantly grey/pink in colour. In ML area lessee has drilled 27 bore holes in 2017-18 2018-19.		

### **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)	As shown in plan E 540680 - E 540820  N 2368225 – N2368375	Broadly as per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	6 to 9 m	3 - 6 m	
2c	Stripping ratio or ore to OB ratio	1:1.68	1:1.37	
2d	Quantity of topsoil generation in m3	56000 m3	4895.83 m3	
2e	Quantity of overburden generation in m3	--	--	
2f	General remarks of inspecting officer on development of pit w.r.t. type	The mine start working from 2018-19 and excavation is very less and mostly the top soil is excavate to expose limestone and approx 65084 tons limestone excavated upto 2019-20.		

	of deposit etc.	
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### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	1	
3b	Quantity of ROM mineral production proposed	99000.00 Tonnes	48722.23Tonnes	
3c	Recovery of salable/usable mineral from ROM production	--	--	
3d	Quantity of mineral reject generation	0.00 tonnes	0.00tonnes	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
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	Nil	NIL	
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: up to 9.5mtrs Max. Dia : 110 mm	
3k	Provision of mining machineries in mineral benches	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	2.00Ha.	1.724 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:1.68	1:1.97	
3o	Total area put in use under different heads at the end of year	Pit-2.00 Waste/reject: Nil Others-Top Soil /OB 6.7Ha. Others – Road, Building	1.742 Ha. Nil OB -1.58 ha. Others – Road, Building - 0.64	

		-1.10		
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: 0.000 Metric Tonnes  Yr- 2017-18: 0.00MetricTonnes  Yr- 2018-19: 50010.00Metric Tonnes  Yr- 2019-20: 99000.00 Metric Tonnes	Yr- 2016-17: 0.000 Metric Tonnes  Yr- 2017-18:0.00 Metric Tonnes  Yr- 2018-19 16362.69 Metric Tonnes  Yr- 2019-20: 48722.23Metric Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast fully mechanised using shovel-Dumper combination and deep hole drilling blasting.		

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

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	N/A	N/A	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top soil E 541275 – E542080  N236900 – N2369165	Used for afforestation	
4c	Number of dumps within lease area and outside lease area	1	No major dump observed only top soil is used as berm in mine boundary.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Nil	Nil	
4e	Number of active & alive dumps	1	1	
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	Garland drain	760 mtrs.(1X1Mtr.)	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	The mine was start operation in 2018-19 (01.05.2018) and quantity of excavation is very less and no major dump observed therefore no scope of waste dump management.		

**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)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The 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). 2000 nos. ii) 1.0 Ha. iii) Plantation	i)7942 nos .ii)7.2 Ha. iii) 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 & progressive	The PMCP work is done broadly as per proposal.		

### **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	yes	yes	
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As mentioned earlier that mine is started working one year back and production is also very less therefore no such scope for mineral conservation and no beneficiation is done in ML area.		

### **8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	yes	yes	
8b	Concurrent use or storage of topsoil	yes	yes	As per plan
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	As shown in Plan	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)	Nil	7942plants in this year	
8g	Survival rate	85%	85%	
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 mine very new and mining activity is very less. The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed 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	Yes given	Mining Engineer- Shri Birendra Banjare, Geologist-Shri Sanjay Arora,Mine Manager- Shri Dinesh Singh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under Current O/C working-1.748 ha., Infrastructure/roads- 1.1 ha.		
9d	Scrutiny of Annual return on afforestation	<b>5901 nos</b>		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	<b>Nil</b>		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>88.98 tons</b>		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & production cost- Rs370.36/-		



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9i	Scrutiny of Annual return on fixed assets	Rs310519451/-		
9k	Scrutiny of Annual return on mining machineries	Yes given		

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

The earlier violation taken compliance and during present inspection violation pointed out under Rule 11(1) of MCDR, 2017

(Rajesh Kumar Das, Senior Assistant Controller of Mines)