MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office &	Shri R. K. Das Sr. Asstt.Controller of Mines,
	designation	Indian Bureau of Mines, Raipur
2	Date of inspection	20.09.2019
3	Name of the Mine	M/s JK Lakshmi Cement Ltd
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	267.695На
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	19.07.2014 to 18.07.2034& as per section 8A upto 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	Shri Sushil Kumar Wali Address-Nehru House 4, Bahadur Shah ZafarMarg, New Delhi-110002,Phone-01123311112,Email- skwali@jkmail.com, Date of Appointment :-06/11/2008
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D K Mehta Address: - JK Lakshmi Cement Ltd. Vill- MalpuriKhurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036.,Phone: 7000976556 Email: dkmehta@jkmail.com Date of Appointment:-01/02/2012
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- MalpuriKhurd, Khasadih,PO- Ahiwara, Dist- Durg. Chhattisgarh-490036.,Phone: 9752094049.

Email: <u>blbhati@durg.jkmail.com</u> ,
Date of Appointment :- 15/06/2009

23	Name of the Mining Engineer,	Shri B L Bhati
	Qualification and total experience with	Address: - JK Lakshmi Cement Ltd.
	Address, phone, email, fax number and date	Vill- MalpuriKhurd, Khasadih,
	of appointment in mine	PO- Ahiwara, Dist- Durg.
		Chhattisgarh-490036.,Phone: 9752094049.
		Email: blbhati@durg.jkmail.com
		Date of Appointment :- 15/06/2009
24	Whether Geologist and Mining Engineer	Shri VRINDESH KUMAR SINGH appointed as geologist
	appointed in mines satisfy the rule 55&	and Shri BABU LAL BHATI appointed as Mining
	carrying out their duties as per rule 56&57.	Engineer under rule 42 Duties carried out as per
		rule43,44.
25	Date of Approval of Mining Plan/Modified	23.01.2015
	Mining Plan with five-year period and	
	specific condition in approval letter, if any.	
26	Date of Approval of Scheme of	21-07-2016
	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	Limestone
	mining	
28	Method of Mining(Opencast, Underground)	Opencast mining
29	Category (Fully Mechanised, Others or	A Category
	Manual)	
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	4.8 Million tonnes (For both mines)
32	Status of Financial Assurance	103,36,000/

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: 267.695 Ha	Under G1 Category: 267.695 Ha	
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 01.04.2019	Under (111):	Under (111):	
	(in Million Tonnes)	130.31Million Tonnes	130.901 Million Tonnes	
1f	General remarks of inspecting	The Deposit is bedded deposit striking almost EW. The general		
	officer on geology, exploration etc.	slope of the area is 2-3 degree. The entire area is broadly		
		explored in G1.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.	N 2367920 to 2368150	N 2367938 to 2368255	
	lease area (Range in UTM/Local	E 541365 to 541965	E 541268 to 542012	
	Coordinate/Plot No./Location)			
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	2 to 9 m	2 to 9 m	

2c	Stripping ratio or ore to OB ratio	1:0.10	0.0062
2d	Quantity of topsoil generation in m3	51940	14829
2e	Quantity of overburden generation in m3	106104	Nil reported
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly within proposed area and pit 2 developments are in lower side.	

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for	2	Actual Work 2	Kemarks
	production	_	2	
3b	Quantity of ROM mineral production proposed	2399975.00 Tonn	2384208.57	
2	1 1	1000/	1000/	
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	CaO - <34 MgO - >5%	CaO – <30 to 34% MgO - >5%	
3f	Quantity of sub-grade mineral generation	Nil	Nil reported	High MgO stack is observed in mine
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	NA	
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: 100 mm	
3k	Provision of mining machineries in mineral benches	yes	yes	
31	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	28.63 Ha.	30.970 На.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.10	0.0062	

30	Total area put in use under	Pit- 28.63 Ha.	30.970 Ha.	
	different heads at the end of year	Waste/reject		
	•	Others-		
3p	Production of ROM mineral	Yr- 2014-15: 1740000	Yr- 2014-15:	
	during last five-year period, as	Metric Tonnes	437418.65.Metric Tonnes	
	applicable (in Metric Tonnes)	Yr- 2015-16: 2400000	Yr- 2015-16	
		Metric Tonnes	1448333.00 Metric Tonnes	
		Yr- 2016-17: 2399985	Yr- 2016-17: 1699171.08	
		Metric Tonnes	Metric Tonnes	
		Yr- 2017-18:	Yr- 2017-18: 2259822.76	
		2399975Metric Tonnes	Metric Tonnes	
		Yr- 2018-19:	Yr- 2018-19:	
		2399948Metric Tonnes	2384208.57Metric Tonnes	
3q	General remarks of inspecting	Mining is done with fully Mechanization with Back-hoe & Tipper		
	officer on method of mining etc.	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)	Shown in Plan	As per planed	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	One dump for Sub grade & one dump for top soil	2 dumps for SubGrade one dump for Top Soil&1 temp. Dump for High Grade LST.	
4c	Number of dumps within lease area and outside lease area	2	4	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	As per plan	As per plan	
4e	Number of active & alive dumps	2	4	
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.	
4j	Number of settling ponds	Nil	2 existing	
4k	Specific comments of inspecting officer on waste dump management	There is no major dump and top soil is used for afforestation and subgrade stack is exist in ML area and as mentioned protective measures taken.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction	Nil	Nil	
	of mineral from mined out area			
	before starting backfilling			
5b	Area under backfilling of	n/a	n/a	
	mined out area			

5c	Concurrent use of topsoil for	NA	7.5Mtr top soil part dump in	
	restoration or rehabilitation of		Lease boundary for	
	mined out area (Rule 36)		plantation & safety uses.	
5d	Total area fully reclaimed &	n/a	n/a	
	rehabilitated			
5e	General remarks of inspecting	Area not matured for back	ekfilling.	
	officer on backfilling,			
	reclamation etc			

6.0 Progressive Mine Closure Plan

<u>6.0</u>	<u>Progressive Mine Closure</u>	<u>e Plan</u>		
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	1785 1.3 Ha. plantation	
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	PMCP proposal broadl	ly complied.	

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or gradewise 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	Low grade blend with high grade to get desirable grade therefore 2 pits working.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	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 14965 plants planted within lease 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	No adverse impact observed.		

9.0 Compliance of Rule 45

S.	Item	COMMENTS	Remarks	
N.				

Status of submission of	M.R. Submitted upto– AUG.2019	
Monthly and Annual	A.R. submitted upto- 2018-19	
returns		

S. N.	Item	Details GIVEN in A.R.	Observation	n of I/C	Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes			ining Engineer rindesh Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	30.97 under infrastructu		vorking,3.3 ha.	
9d	Scrutiny of Annual return on afforestation	1785 nos saplings within lease area				
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil				
9f	Scrutiny of Annual return on ROM stock and/or graded ore	55670.25 tons of cement grade				
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine price & cost of production reported Rs 242/-	Captive min	ne		
9i	Scrutiny of Annual return on fixed assets	Rs526748104/-	526748104			
9k	Scrutiny of Annual return on mining machineries	Machinaries	Capacity	No. of m/c	Electrical/ Non Electrical	
		BACK HOE	1.4 CUM	7	Non Electrical	
		DOZER	380 HP	1	Non Electrical	
		BLAST HOST DRILL	110 MM	2	Non Electric	al
		CRUSHER	800 T/H	1	Electrical	
		JEEP/TRACTOR	30 HP	1	Non Electric	
		WATER TANKER	20 KL	1	Non Electric	
		EXPLOSIVE VAN	7 TONNE	1	Non Electric	
		TIPPER	16 CUM	15	Non Electric	al
		PUMPS (ELEC.)	2000 L/MN	2	Electrical	

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

Rule	Nature of Violation observed
	Mining operations should have been undertaken in accordance with the approved Mining Plan.
11(1)	The Modified Mining Plan was approved vide letter no. दुर्ग / चूप /खयो-355/नागपुर/2016/31-रायपुर
	dated 21.07.2016 and following deviation was observed during inspection

	There is no proposal of stacking of subgrade material in mine but during mine visit it was observed and also reflected in updated plan that sub grade material is generated and stack. The information about subgrade material is not furnished in Annual return of 2018-19. In the document it is proposed to generate OB/IB/SB of 35368/year from 2016-17 to 2018-19 but during mine visit it was observed there is no separate OB/IB/SB dump and OB is mixed with
45(5)(c)(i)	either Subgrade material or top soil. During the scrutiny of Annual return for 2018-19 it was observed that cost of production and Exmine price is furnished Rs242/- whereas while scrutiny of Monthly returns for the financial year 2018-19 it was observed that Ex-mine price given from Dec'18 to march'19 is Rs242/- and from Aug'18 to Nov'18 it is furnished Rs238/- and from April'18 to July'18 is Rs 237/ Therefore the overall Ex-mine price should be less than Rs242/

Date of Last Inspection, Name and Designation of the Inspecting Officer: The last inspection carried out on 10/12/2018 by Shri S.Kartikeya,JMG and the violations pointed out complied

(Rajesh Kumar Das, Senior Assistant Controller of Mines)