

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Semariya Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	3.096 hect. (All Non-forest)
3	Minecode	38CHG05009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
5	Name of the lessee, Address, phone, email and fax number	Name-JK Lakshmi Cement Ltd. Address-Nehru House ,4th floor - Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311113, Email- blbhathi@durg.jkmail.com
6	Village	Semariya,
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pincode	490036
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	31/01/2013
15	Date of Execution	Transfer from 20th June 2013
16	Date of opening of Mine	01/10/2014
17	Date of first Renewal, if applicable and its period & expiry	18/09/2001 to 17/09/2031
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable

20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<p>Shri Sushil Kumar Wali Address-Nehru House 4 , Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311112, Email- blbhati@durg.jkmail.com</p> <p>Date of Appointment :-01/07/2013</p>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<p>Shri D K Mehta Address :- JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone : 9752094049. Email : blbhati@durg.jkmail.com</p> <p>Date of Appointment :-04/07/2013</p>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<p>Shri Dinesh Singh Address :- JK Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone : 8966909194 Email : dineshsingh@durg.jkmail.com</p> <p>Date of Appointment :- 06/07/2013</p>
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<p>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</p> <p>Date of Appointment :- 15/06/2009</p>
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	<p>Shri V K Singh appointed as geologist and</p> <p>Shri B L Bhati appointed as Mining Engineer under rule 42 Duties carried out as per rule 43, 44.</p>
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Modified Mining Plan :- 07/03/2014
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	24/03/2017

27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	others
30	Captive/Non Captive	Captive

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

Exploration

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	4 bore holes	4 Bore Holes	4 Bore Holes drilled (129 mtrs.) completed in current year 2017-18 against 120 mtr proposal. Sampling & analysis is going on
1b	Exploration over lease area for Geological axis 1 or 2.	4 Holes	4 Holes	After 4 borehole drilled Lease area covered under G-1 category.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil -	DSS Infra & Geotechno Services, Kolhapur (M.S.). 1.98 Lakh expenditure during current year	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil -	Nil-	Total area covered under G1 category as per UNFC
1e	Balance reserves as on 31.12.2017	143225.000 Tonn	143473.120 Tonn	
1f	General remarks of inspecting officer on geology, exploration etc.	The four drill holes drilled at four corners to cover the ML in G1 category. During the mine visit it was observed that the pit was water logged.		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	One pit working in the centre leaving the 7.5 meter safety barrier all along lease boundary.	Broadly as per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Mining have been started with outcrop that's why no topsoil and Overburden Benches	.
2c	Stripping ratio or ore to OB ratio	Nil	Nil	Mining started form outcrop.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The working is in one pit only and during mine visit it was observed that the pit was water logged.		

3.0 Exploitation

	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2000 tonnes	1943 tonnes	
3c	Recovery of salable/usable mineral from ROM production	99.00%	99.00%	
3d	Quantity of mineral reject generation	0 tonnes	0 tonnes	
3e	Grade of mineral reject generation and threshold value declared	CaO=37-38% MgO= +4%	CaO=37-38% MgO= +4%	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method	Mechanized Method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Chemical analysis of Bore hole samples	Chemical analysis done of Bore hole samples.	
3j	Provision of drilling & blasting in mineral benches	yes	yes	
3k	Provision of mining machineries in mineral benches	Mechanized Mining	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	2 & 3 meters	2 & 3 meters height is suitable for this method as per Mining Plan.	
3m	Total area covered under excavation/pits	2.380 Ha.	2.380 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	
3o	Total area put in use under different heads at the end of year	Pit- Waste/reject Others-	2.38 Ha. Nil. 0.025 Ha. road	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-(2013-14),1125 tons Yr- (2014-15),1950 tons Yr-(2015-16) 2,000Tonn Yr. – 2016-17 2,000Tonn Yr. (2017-18) 2500 Tonns	0.000 tonnes 300 tonnes 1367.26 tons 1893.15 Tonnes 1733.73 Tonns (TILL 31 DEC.2017)	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is proposed opencast mechanised method by shovel-dumper combination and drilling blasting by 110 mm diameter hole and by using ANFO/Slurry explosives.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NIL	NIL	
b	Location of topsoil, OB & mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	NIL	NIL	
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	Nil	
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	There is no major dump observed during mine visit as there is no waste generation therefore no waste dump management required.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N/A	NA	
5b	Area under backfilling of mined out area	N/A	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	N/A	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	There is no such area matured for backfilling.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	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 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	N/A	NA	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	250 Nil N/A	217 Nil N/A	Total 54461 plants planted within lease and outside lease area.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Sapling 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. Semariya Village.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The working towards compliance of PMCP is as per proposal.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	N/A	N/A	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	NO	NO	
7d	Any beneficiation process at mines	Not Any	Not Any	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation	There is no beneficiation done inside lease area and		

	issues	almost ROM is used for cement manufacturing.		
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8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No top soil generation.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
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)	NIL	All plantations is done within starting of Mining operation. 217 plants in this year	Total 54461 plants planted within lease and outside lease area.
8g	Survival rate	70.00%	65%	
8h	Water sprinkling on roads to control airborne dust	To be Done with 01 Water Tanker.	Done with 01 Water Tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mining is in small scale and excavation is also very less and during mine visit the pit was water logged 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 – Dec ,2018 A.R. submitted upto- Year-2016-17.	

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	Shri Dinesh Singh Manager & Mining Engineer but no Geologist name given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	2.38 ha. given for o/c working and 0.025 ha for road.	
9d	Scrutiny of Annual return on afforestation	yes	Within lease 200 nos saplings & outside lease 10700 nos saplings	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	yes	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	50 tons	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	yes	Ex-mine price & cost of production is 237Rs	
9i	Scrutiny of Annual return on fixed assets	yes	Nil	
9k	Scrutiny of Annual return on mining machineries	yes	Back hoe 1.4 cum capacity 4 nos, Dozer-240 HP i nos, Drill 100 mm 2 nos, Tipper 16 cum 15 nos, Water tanker 7 Kl 2 nos.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-There was no pending violation and during present inspect Rule 45 & 55 of MCDR, 2017 found violated and accordingly violation letter issued.

Date: 16/01/2018

Name- Rajesh Kumar Das,
Designation -Senior Assistant Controller of Mines,
IBM, RAIPUR