

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri B. L. Bhati, Sr. G.M. (Mines) Shri. Sanjay Arora, Sr. G.M. (Geology)
3	Date of inspection	27/01/2020
4	Name of the Mine	JK Lakshmi Cement Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-forest: 252.105 Ha. Forest: NIL Total Lease Area: 252.105 Ha.
6	Mine Code	38CHG05026
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4816/2011
8	Name of the lessee, Address, phone, email and fax number	M/s JK Lakshmi Cement Limited Shri Jay Kumar Puram, Basantgarh, Pindwara, District- Sirohi (Rajasthan) Pin Code: 307 019 Phone: +91 (0) 2971 - 244409/244410 Fax: +91 (0) 2971 - 244417 Email: lakshmi_cement@lc.jkmail.com
9	Village	Semariya, Ghikuria and Nandini-Khundini
10	Taluka / Mandal / District	Taluka- Ahirwara, District- Durg
11	State	Chhattisgarh
12	Post office & PIN	Ahiwara, Pin Code: 490036
13	Nearest police station	Nandini Nagar
14	Nearest Railway station	Power House, Bhilai
15	Date of Grant of Mining Lease	26/10/2016 28/12/2016 to 27/12/2066 (50 Years)
16	Date of Execution	28/12/2016
17	Date of opening of Mine	01/05/2018
18	Date of first Renewal, if applicable and its period & expiry	Not Applicable. Mining lease has been granted for 50 years.
19	Date of second Renewal, if applicable and its period & expiry	Not Applicable.
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable.
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sushil Kumar Wali, Whole Time Director and Nominated Owner F/2578, Ansals Palam Vihar, Gurgaon, Pin Code: 122017 Phone: +91 (0) 11 - 33001142/33001112 Fax: +91 (0) 11 - 23722251 Email: skwali@jkmail.com Date of Appointment: 01/05/2018
22	Name of the Mine Agent with Address, phone, email, fax number and date of	Shri Dinesh Kumar Mehta, Sr. Vice President (Works) JK Lakshmi Cement Ltd.

File No. CHG/DRG/LST-38CHG05026

	appointment	Village: Malpuri Khurd, Khasardih, P.O. AHIRWARA, Tehsil: Dhamdha, District: Durg (Chhattisgarh) – 490 036 Phone: +91 (0) 9752094049. Email: dkmehta@jkm.com Date of Appointment:01/05/2018
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Dinesh Singh, Sr. Manager (Mines) JK Lakshmi Cement Ltd. Village: Malpuri Khurd, Khasardih, P.O. AHIRWARA, Tehsil: Dhamdha, District: Durg (Chhattisgarh) – 490 036 Phone: +91 (0) 8966909194 Email: dineshsingh@durg.jkm.com Date of Appointment:01/05/2018
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Birendra Kumar Banjare, Asstt. Manager JK Lakshmi Cement Ltd. Village: Malpuri Khurd, Khasardih, P.O. AHIRWARA, Tehsil: Dhamdha, District: Durg (Chhattisgarh) – 490 036 Phone: +91 (0) 7747019156 Email: birendra.banjare@durg.jkm.com Date of Appointment:01/05/2018
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Appointed. Shri Sanajy Arora, Sr. General Manager (Geology) JK Lakshmi Cement Ltd. Village: Malpuri Khurd, Khasardih, P.O. AHIRWARA, Tehsil: Dhamdha, District: Durg (Chhattisgarh) – 490 036 Phone: +91 (0) 9752094047 Email: sanjayarora@durg.jkm.com Date of Appointment:01/05/2018
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DRG/LST/MPLN-594/NGP Nagpur dated 12/06/1998 Proposal Period: 2016-17 to 2020-21 (Area 281.339 Ha.) Modified Mining Plan approved vide letter no. 314(3)/2011-MCCM(CZ)/MP-23 Nagpur dated 21/12/2011 Proposal Period: 2016-17 to 2020-21 (Area 281.339 Ha.) Modified Mining Plan approved vide letter no. DRG/LST/MPLN-52/2016-RPR/403 Raipur dated 23/09/2016 Proposal Period: 2016-17 to 2020-21 (Area reduced after revised LOI, 252.105 Ha.) Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1156/2018 Raipur dated 11/07/2018 Proposal Period: 2018-19 to 2020-21
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NIL
28	Mineral(s) granted in lease and proved for mining	Limestone

29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category A Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Limestone 4.8 Million Tonnes Per Annum for both leases i.e. 38CHG05017 (267.695 Ha.) and 38CHG05026 (252.105 Ha.) obtained from Ministry of Environment, Forest & Climate Change, Impact Assessment Division, Government of India vide letter no. J-11011/1170/2007-IA.II(I) New Delhi dated 20/07/2018.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Mine Development and Production Agreement (MDPA) has been made on 28/12/2016. Bank Guarantee of Rs. 25,90,88,640/- vide BG No. BG00361G160000037 dated 22/11/2016.

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	2018-19: 27 nos. of Core Boreholes with cumulative depth of 595 meters. 2019-20: 28 nos. of Core boreholes with cumulative depth of 980 meters.	2018-19: NIL 2019-20: 27 nos. of Core boreholes with cumulative depth of 1084 meters so far.	Deviation has been pointed out for less achievement in the exploration proposal.
1b	Exploration over lease area for Geological axis 1 or 2.	Area not specified in the approved document.	Under G1 Category: 2.660 Ha Under G2 category: 144.258 Ha Under G3 category: 105.187 Ha Under G4 Category: NIL Ha Non-Mineralised: NIL Ha	No exploration has been done during - F.Y. 2018-19
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	M/s Central Drilling Associates, Nagpur Expenditure: Rs. 24,55,108/-	-
1d	Balance area to be explored to bring Geological axis in 1	Under G1 Category: 2.660 Ha	No exploration has been done	Deviation has been pointed

	or 2	Under G2 category: 144.258 Ha Under G3 category: 105.187 Ha	during F.Y. 2018-19 and during F.Y. 2019-20 total 27 nos. of core boreholes with cumulative depth of 1084 meters have been drilled so far.	out for less achievement in the exploration proposal.
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 1.028 Million Tonnes Under (122): 33.256 Million Tonnes Under (211): 0.141 Million Tonnes Under (222): 32.497 Million Tonnes Under (333): 31.554 Million Tonnes	Under (111): 1.062 Million Tonnes Under (122): 33.256 Million Tonnes Under (211): 0.141 Million Tonnes Under (222): 32.497 Million Tonnes Under (333): 31.554 Million Tonnes	-
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

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)	2018-19: In between local co-ordinates N1260 to 1420 and W0075 to W0220	2018-19: In between local co-ordinates N1260 to 1420 and W0075 to W0220	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	-
2c	Stripping ratio or ore to OB ratio	1 : 1.68	1 : 1.36	-
2d	Quantity of topsoil generation in m3	84000 CuM	22329 CuM	-
2e	Quantity of overburden generation in m3	As per the approved document no separate Overburden and Topsoil will be generated	Overburden has been generated in the form of topsoil and the generated quantity has been considered under topsoil.	-

2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL
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3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	50010.00 Metric Tonnes	16362.690 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	As per the approved document, No Mineral Reject will be generated during the F.Y. 2018-19	No Mineral Reject has been generated during F.Y. 2018-19	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned the approved document.	Not applicable.	-
3f	Quantity of sub-grade mineral generation	As per the approved document, No Mineral Sub-grade will be generated during the F.Y. 2018-19	No Mineral Sub-grade has been generated during F.Y. 2018-19	-
3g	Grade of sub-grade mineral generation	Not mentioned the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening has been proposed in the approved document for sizing of the ore/mineral before dispatch to the captive plant.	Being done as per proposal.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study has been proposed in the approved document during plan period.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Diameter: 100 mm Spacing: 3.5 m Burden: 3.0 m Depth: 9.0 m	Diameter: 100 mm Spacing: 3.5 m Burden: 3.0 m Depth: 9.0 m	-

3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. DTH Drilling Machine ICM 260 01 no. with 100 mm dia capacity 2. Dozer 01 no. 3. Back Hoe/ Excavator 01 no. with 1.4 CuM bucket capacity 4. Dumpers 03 nos. with 25 Metric Tonnes capacity 5. Water Tanker 01 no. with 20,000 Liters capacity 6. Water Pump 02 nos. with 5.0 HP capacity 7. Explosive Van 01 no. with 7.0 Metric Tonne capacity 8. Jeep/Pool Car 01 no. 	<ol style="list-style-type: none"> 1. DTH Drilling Machine 01 no. with 110 mm dia capacity 2. Dozer 01 no. 3. Back Hoe/ Excavator 01 no. with 1.4 CuM bucket capacity 4. Dumpers 04 nos. with 16 CuM capacity 5. Water Tanker 01 no. with 20,000 Liters capacity 6. Explosive Van 01 no. with 7.0 Metric Tonne capacity 7. Jeep/Pool Car 01 no 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB/Waste:7.0 m Ore/Mineral: 6.0 m to 9.0 m	OB/Waste:4.0 m Ore/Mineral: 2.0 m to 3.0 m	-
3m	Total area covered under excavation/pits	2.0 Ha.	1.20 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year	1 : 1.68	1 : 1.36	-
3o	Total area put in use under different heads at the end of year	Pit- 2.0 Ha. Waste/reject- Nil Others- 7.82 Ha.	Pit- 1.20 Ha. Waste/reject- Nil Others- 8.30 Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: NIL Metric Tonnes Yr- 2017-18: NIL Metric Tonnes Yr- 2018-19: 50010.000 Metric Tonnes	Yr- 2016-17: NIL Metric Tonnes Yr- 2017-18: NIL Metric Tonnes Yr- 2018-19: 16362.690 Metric Tonnes	Notice of Opening: 01/05/2018. First two years NIL production of Ore/Mineral has been proposed.
3q	General remarks of inspecting officer on method of mining etc.	NIL		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal has been given in the approved document for separate stacking of topsoil and OB.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Topsoil/OB: In between local co-ordinates N1960 to N2245 and E0460 to E1175 along 7.5 m barrier zone Ore/Mineral: No proposal for stacking.	Topsoil/OB: In between local co-ordinates N1960 to N2245 and E0460 to E1175 along 7.5 m barrier zone Ore/Mineral: No stacking has been done.	-
4c	Number of dumps within lease area and outside lease area	Topsoil/OB: 01 no. Mineral/Ore: NIL	Topsoil/OB: 01 no. Mineral/Ore: NIL	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Dumping has been done beyond ultimate pit limit at 7.5 m barrier zone.	-
4e	Number of active & alive dumps	01 no.	01 no.	-
4f	Number of dead dumps	Proposal has not been given in the approved document.	Not applicable.	-
4g	Number of dumps stabilised	Proposal has been given in the approved document for plantation of 2000 sapling over waste dump.	7942 nos. of sapling have been planted over the waste dumps at 7.5 m barrier zone.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for construction of garland drain around waste dump.	Garland drain has been constricted around waste dump.	-
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Could not be ascertained as no records have been maintained.	-
4j	Number of settling ponds	Proposal has not been given in the approved document for construction of	Not applicable.	-

		settling ponds.	
4k	Specific comments of inspecting officer	NIL	

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	Proposal has been given in the approved document for full extraction of mineral/ore before start backfilling during conceptual stage of the mine.	Not applicable as on date, as the mineral/ore has not been completely mined out.	-
5b	Area under backfilling of mined out area	Proposal has not been given in the approved document for backfilling.	Area not matured for backfilling.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for concurrent use of topsoil for restoration of the ground.	Topsoil/OB has been stacked at 7.5 m barrier zone and the plantation has been done over on it.	-
5d	Total area fully reclaimed & rehabilitated	1.0 Ha. area at 7.5 m barrier zone has been proposed for rehabilitation.	7.2 Ha. area at 7.5 m barrier zone has been rehabilitated by 7942 nos. of saplings.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

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.	Submitted on time.	Furnished information has been cross verified during inspection.	-
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	Proposal has not been given in the approved document for reclamation and rehabilitation in the worked out benched.	Not applicable, as the mineral has not been mined out completely.	-

	method of rehabilitation vi) Cost incurred on watch & care during the year			
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	Proposal has not been given in the approved document for reclamation and rehabilitation by backfilling in the voids area.	Not applicable, as on date no voids area present within lease area.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	2000 nos. 1.0 Ha. By plantation	7942 nos. 7.2 Ha. By plantation	Plantation has been done at 7.5m barrier zone.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Environmental Parameters at core and Buffer Zone.	Being done as per proposal.	As per the reports, all the parameters are within the prescribed limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal has been given in the approved document for segregation of the mineral/ore before its dispatch to the crusher plant, erected at the adjacent lease for screening and sizing.	Being done as per proposal. Mineral/Ore has been sorted at the pit head before its dispatch to the crusher plant.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised sizing has segregation has been proposed in the approved at the pit	Being done as per proposal	-

		head.		
7c	Different grade of mineral sorted out at mines	Proposal has not been given in the approved document for grade wise sorting of the mineral/ore at the mine site.	The entire produced ROM mineral has been consumed in the captive plan.	-
7d	Any beneficiation process at mines	No beneficiation process has been proposed in the approved document during plan period.	Not applicable.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved document for separate removal of topsoil and stacking at earmarked location within lease area.	Being done as per proposal.	-
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil for ground restoration.	Being done as per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for separate dumping of Topsoil/OB and Mineral/Ore.	Being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has been given in the approved document for utilization of Topsoil/OB for ground restoration.	Being done as per proposal.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has been given in the approved document for phase restoration and rehabilitation through plantation at 7.5 m barrier zone.	Being done as per proposal.	-
8f	Baseline information on existence of plantation & additional plantation done	2018-19: 2000 nos. of saplings will be planted at 7.5 m	2018-19: 7942 nos. of saplings have been plated	-

	(Rule 44)	barrier zone and 1.00 Ha. area will be rehabilitated.	at 7.5 m barrier zone over the Topsoil/OB dump and 7.2 ha. area has been covered under plantation.	
8g	Survival rate	Not mentioned in the approved document.	Approx 85%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – February 2020 A.R. submitted upto- F.Y. 2018-19	-

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	Mining Engineer: Shri Biendra Banjare Geologist: Shri Sanjay Arora Manager: Shri Dinesh Singh	Mining Engineer: Shri Biendra Banjare Geologist: Shri Sanjay Arora Manager: Shri Dinesh Singh	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 1.20 Ha. Waste/reject- Nil Others- 8.30 Ha.	Pit- 1.20 Ha. Waste/reject- Nil Others- 8.30 Ha.	-
9d	Scrutiny of Annual return on Afforestation	Within Lease Area: 7942 nos. Outside Lease Area: 2083 nos.	Within Lease Area: 7942 nos. Outside Lease Area: 2083 nos.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: Not Mentioned.	Mineral Reject: NIL Grade: Not Mentioned.	No mineral reject has been generated during F.Y. 2018-19
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Cement Grade: NIL	Closing Stock ROM: NIL Cement Grade: NIL	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: Rs. 415.00 Per Metric	Sale Value: NIL Ex-Mine Price: Rs. 415.00 Per Metric	-

		Tonne Cost of Production: Rs. 415.00 Per Metric Tonne.	Tonne Cost of Production: Rs. 415.00 Per Metric Tonne.	
9i	Scrutiny of Annual return on fixed assets	Rs. 8424478/-	Rs. 8424478/-	-
9k	Scrutiny of Annual return on mining machineries	Given in the returns.	Verified from the field logbooks.	

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

Outstanding violation Rule 11(1) for non achievement of Exploration Proposal.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Shri R.K. Das, Sr. ACoM, IBM Raipur, Date of Inspection: 07/06/2019

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 11(1)	The following deviations have been found in the mine from the approved Modified Mining Plan vide letter no. DRG/LST/MPLN-1156/2018-RPR Raipur dated 11/07/2018 for the period of F.Y. 2018-19 to 2020-21: Exploration: During F.Y. 2018-19 to 2019-20; it was proposed to carry out 55 nos. of Core Boreholes up to a cumulative depth of 1925 meters; whereas, 27 nos. of Core boreholes with cumulative depth of 1084 meters have been drilled so far.
Rule 45(7)	Annual Return F.Y. 2018-19: Part V; General Geology & Mining (Sec 1/2 for Bauxite): 4.2 (c): Total quantity of Overburden/Waste removed during the year (tonnes) has not been mentioned.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of inspection: 27/01/2020