

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	Date of inspection	11/12/2018
3	Name of the Mine	Semariya Limestone
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-forest: 3.096 Ha. Forest: NIL Total Lease Area: 3.096 Ha.
5	Mine Code	38CHG05009 MCDR File No. CHG/DRG/LST-42/RPR
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 Limited Shri Jay Kumar Puram, Basantgarh, Pindwara, District- Sirohi (Rajasthan) Pin Code: 307 019 Phone: 02971-244409/244410 Fax: 02971-244417 Email: lakshmi_cement@lc.jkmail.com
8	Village	Semariya
8	Taluka / Mandal / District	Taluka- Ahirwara, District- Durg
10	State	Chhattisgarh
11	Post office & PIN	Ahiwara, Pin Code: 490036
12	Nearest police station	Nandini Nagar
13	Nearest Railway station	Power House
14	Date of Grant of Mining Lease	18/09/1981 to 17/09/1991 (10 Years) granted to Smt. Chanda Devi Lunia
15	Date of Execution	18/09/1981
16	Date of opening of Mine	15/01/2001
17	Date of first Renewal, if applicable and its period & expiry	18/09/1991 to 17/09/2001 (10 Years) Lessee Smt. Chanda Devi Lunia Mining Lease has been transferred from Smt. Chanda Devi Lunia to Shri Ashok Kumar Bafna on 07/08/2000
18	Date of second Renewal, if applicable and its period & expiry	18/09/2001 to 17/09/2021 (20 Years) Lessee Shri Ashok Kumar Bafna Mining Lease has been transferred from Shri Ashok Kumar Bafna to M/s JK Lakshmi Cement Limited on 20/06/2013 18/09/2021 to 17/09/2031 (10 Years) As per MMDR Amendment Act, 2015 section 8A Validity of the lease period extended up to 50 years. Supplementary lease deed has been made for extended period.

19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	17/09/1990 applied for first renewal.
20	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: 011-33001142/33001112 Fax: 011-23722251 Email: skwali@jkm.com Date of Appointment: 01/07/2013
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Dinesh Kumar Mehta, Vice President JK Lakshmi Cement Ltd. 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:04/07/2013
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Dinesh Singh, 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:06/07/2013
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Pravin Singh Qualification: B. Tech (Mining) Experience: +9 Years JK Lakshmi Cement Ltd. Village: Malpuri Khurd, Khasardih, P.O. Ahirwara, Tehsil: Dhamdha, District: Durg (Chhattisgarh) – 490 036 Phone: +91 (0) 7747013818 Email: pravin.singh@durg.jkm.com Date of Appointment: 01/02/2018
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 Qualification: M.Tech.(Applied Geology) Experience: +28 Years 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: 01/02/2018
25	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-231/NGP Nagpur dated 20/05/1992 Proposal Period: 1991-92 to 1995-96 Lapse Period: 1996-97 to 2001-02 (5 years)

		<p>Mining Plan approved vide letter no. DRG/LST/MPLN-231/NGP Nagpur dated 20/01/2003 Proposal Period: 2002-03 to 2006-07</p> <p>Modified Mining Plan approved vide letter no. DRG/LST/MPLN-1073/RPR Raipur dated 24/03/2017 Proposal Period: 2017-18 to 2021-22</p>
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<p>Scheme of Mining approved vide letter no. DRG/LST/MPLN-231/NGP Nagpur dated 13/10/2010 Proposal Period: 2007-08 to 2011-12</p> <p>Scheme of Mining approved vide letter no. DRG/LST/MPLN-231/NGP Nagpur dated 07/03/2014 Proposal Period: 2012-13 to 2016-17</p>
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	<p>Not obtained.</p> <p>Consent of Board under section 21 of Air (Preservation and Control of Pollution) Act, 1981 and 25/26 of Water (Prevention and Control) Act, 1974 have been obtained from the Chhattisgarh Environment Conservation Board for Mining of Limestone: 25,000 Metric Tonnes Per Year vide their letter no. 1421/RO/TS/CECB/2016 Bhilai dated 14/09/2016 and letter no. 1420/RO/TS/CECB/2016 Bhilai dated 14/09/2016 respectively. Valid for 28/08/2016 to 25/08/2021</p>
32	Status of Financial Assurance	<p>Rs. 10,00,000/- (Rupees Ten Lakhs),</p> <p>(Rs. 2,00,000/- vide BG No. 0999817BG0000140 valid up to 31/03/2022 And Rs. 8,00,000/- vide BG No. 0999817BG0000219 valid up to 31/03/2022)</p>

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	2017-18: 04 nos. of boreholes with cumulative depth of 120 meters.	2017-18: 04 nos. of boreholes have been drilled with cumulative depth of 129 meters.	-
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 3.096 Ha	Under G1 Category: 3.096 Ha	-

1c	Exploration Agency & Expenditure in lakh Rupees during the year	Rs. 3,00,000/- (Rupees three lakhs)	DSS Infra & Geotechno Services, Kolhapur (M.S.). Rs. 2,00,000/- (Rupees Two Lakhs) Expenditure against exploration	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: 3.096 Ha	Under G1 Category: 3.096 Ha	-
1e	Balance reserves as on 01.04.2018 (in Million Tonnes)	Under (122): 0.142 Million Tonnes Under (222): 0.168 Million Tonnes	Under (122): 0.143 Million Tonnes Under (222): 0.168 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)	2017-18: In the eastern side of the lease area. Within RL 272 to 269 and 267 to 265 Within Local coordinates N050 to N120 and E100 to E170	Could not be ascertained as the only quarry was water logged during inspection.	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top Soil/OB: 01 no. Mineral/Ore: 02 nos.	Could not be ascertained as the only quarry was water logged during inspection.	-
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.0	-
2d	Quantity of topsoil generation in m3	550 Cum	NIL	The entire development has been done in the mineralised benches
2e	Quantity of overburden generation in m3	NIL	NIL	In the lease area Top soil

				and OB has been generated together during development.
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	01	01	-
3b	Quantity of ROM mineral production proposed	2017-18: 2500.00 Metric Tonnes 2018-19: 2500.00 Metric Tonnes	2017-18: 1861.660 Metric Tonnes 2018-19: 1579.860 Metric Tonnes (up to Feb 2019)	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No Mineral Reject will be generated from the mine. Proposal has not been given in the approved document.	NIL generation of mineral reject.	-
3e	Grade of mineral reject generation and threshold value declared	Proposal has not been given in the approved document.	Not applicable	
3f	Quantity of sub-grade mineral generation	Proposal has not been given in the approved document.	Not applicable	
3g	Grade of sub-grade mineral generation	Proposal has not been given in the approved document.	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Crushing and Screening.	Mechanised Crushing and Screening.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed in the approved document.	Not applicable	-

3j	Provision of drilling & blasting in mineral benches	Diameter: 110 mm. Spacing: 1.8 m Burden: 1.5 m Depth: 3.0 m	Could not be ascertained as the only quarry was water logged during inspection.	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. DTH/Wagon Drill 01 no. 110 mm dia capacity. 2. Excavator 01 no. 1.10 cum bucket size. 3. Dumper 02 nos. 20.0 tonnes capacity 4. Hydraulic Rock Breaker 01 no. 5. Water Tanker 01 no. 8000 liters capacity 6. Water Pump 01 no. 5.0 HP Capacity 7. Jeep 01 no. 	<ol style="list-style-type: none"> 1. DTH/Wagon Drill 01 no. 110 mm dia capacity. 2. Excavator 01 no. 1.10 cum bucket size. 3. Dumper 02 nos. 20.0 tonnes capacity 4. Hydraulic Rock Breaker 01 no. 5. Water Tanker 01 no. 8000 liters capacity 6. Water Pump 01 no. 5.0 HP Capacity 7. Jeep 01 no. 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of OB/Topsoil: 0.5 m Height of Mineral Bench: 3.0 m Width: 20.0 m Slope: 80 degree	Height of OB/Topsoil: 0.5 m Height and width of the mineral bench could not be ascertained as the only quarry was water logged during inspection	-
3m	Total area covered under excavation/pits	2.440 Ha. up to end of plan period.	2.380 ha. up to end of F.Y. 2017-18 (Obtained from the annual returns for F.Y 2017-18)	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.22	Could not be ascertained as the only quarry was water logged during inspection	-
3o	Total area put in use under different heads at the end of year	Pit- 2.440 Ha. Waste/reject- NIL Others- 0.126 Ha. Up to end of plan period.	Pit- 2.380 Ha. Waste/reject- NIL Others- 0.025 Ha. Up to end of F.Y. 2017-18	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2013-14: 1125.00 Metric Tonnes Yr- 2014-15:	Yr- 2013-14: NIL Metric Tonnes Yr- 2014-15: 300.00 Metric Tonnes	-

		1950.00 Metric Tonnes Yr- 2015-16: 1950.00 Metric Tonnes Yr- 2016-17: 1950.00 Metric Tonnes Yr- 2017-18: 2500.00 Metric Tonnes	Yr- 2015-16: 1367.26 Metric Tonnes Yr- 2016-17: 1943.15 Metric Tonnes Yr- 2017-18: 1861.66 Metric Tonnes	
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 approved document for separate dumping of topsoil, OB & mineral reject.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	OB/Topsoil: Along 7.5 m barrier zone.	Being done as per proposal.	-
4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no.	Topsoil: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Being done as per proposal.	-
4e	Number of active & alive dumps	01 no.	01 no.	-
4f	Number of dead dumps	No dead dump within lease area.	No dead dump within lease area.	-
4g	Number of dumps stabilised	Not proposed in the approved document.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has not been given in the approved document for protective measures along waste dump	Garland drain has been made all along the lease boundary.	-
4i	Length of Retaining wall or garland drain all along dump	Proposal has not been given in the approved document	Garland drain has been made all along the lease boundary.	-

4j	Number of settling ponds	Proposal has not been given in the approved document	Not applicable	-
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 before conceptual stage.	Mineral has not been mined out completely from the quarry.	-
5b	Area under backfilling of mined out area	Proposal has not been given the approved document for backfilling	Area not matured for backfilling and mineral has not been mined out completely.	-
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 through plantation.	Being done as per proposal.	-
5d	Total area fully reclaimed & rehabilitated	No such proposal has been given in the approved document for reclamation and rehabilitation.	Area not matured for reclamation and rehabilitation.	-
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 before due date.	Submitted timely and the given information has been 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	0.54 Ha. (along 7.5 m barrier zone) NIL 810 nos. 810 nos.	No record has been maintained. NIL 800 nos. 810 nos.	-

	plants v) Any other specific 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	- - 810 nos. (along 7.5 m barrier zone) Proposal has not been given in the approved document. -	- - 800 nos. (along 7.5 m barrier zone) Not applicable as on date. -	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	810 nos. (along 7.5 m barrier zone) Through plantation.	800 nos. (along 7.5 m barrier zone) Through plantation.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal as been given in the approved document for regular monitoring of Ambient Air quality, Water quality and Noise vibration in the core and buffer zone.	Being done as per proposal.	-
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	ROM Dispatch: 499.560 Metric Tonnes (During April 2018) Mechanised Crushing and Screening has been proposed in the document.	ROM Dispatch: 499.560 Metric Tonnes (During April 2018) Mechanised Crushing and Screening is being done.	Last dispatch in the month of April 2018
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed in the approved document.	Not applicable.	-

7c	Different grade of mineral sorted out at mines	Not proposed in the approved document.	Not applicable.	-
7d	Any beneficiation process at mines	Not proposed in the approved document.	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 and utilization of topsoil.	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.	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 dumping for separate dumping of waste, OB and Topsoil.	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 concurrent use of topsoil. During the conceptual stage the quarry will be converted into water reservoir.	Being done as per proposal.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been given in the approved document for reclamation and rehabilitation.	Area not matured for reclamation and rehabilitation.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	810 nos.	800 nos.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-
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
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9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – February 2019 A.R. submitted upto- F.Y 2017-18	NIL

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 Dinesh Singh Geologist: Shri Sanjay Arora Manager: Shri Dinesh Singh	Mining Engineer: Shri Dinesh Singh Geologist: Shri Sanjay Arora Manager: Shri Dinesh Singh	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 2.380 Ha. Waste/reject- NIL Others- 0.025 Ha. Up to end of F.Y. 2017-18	Could not be ascertained as the only quarry was waterlogged during inspection.	NIL
9d	Scrutiny of Annual return on afforestation	Within Lease area: 200 nos. Outside Lease area: 10550 nos.	Within Lease area: 200 nos. Outside Lease area: 10550 nos.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No mineral reject has been shown in the returns.	No Mineral reject in the lease area.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock (Upto February 2019): 1600.420 Metric Tonnes.	Closing Stock (Upto February 2019): 1600.420 Metric Tonnes.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL (Captive Use) Ex. Mine Price: Rs. 237.00 Per Metric Tonne Cost of Production: 399 Per Metric Tonne	Sale Value: NIL (Captive Use) Ex. Mine Price: Rs. 237.00 Per Metric Tonne Cost of Production: 399 Per Metric Tonne	Difference in the cost of production and Ex-Mine price has already been pointed out during previous inspection.
9i	Scrutiny of Annual return on fixed assets	Rs. 23246274/-	Rs. 23246274/-	NIL

9k	Scrutiny of Annual return on mining machineries	Information has been given in the annual returns.	Given in the annual returns.	NIL
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

No outstanding violations.

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

Shri Rajesh Kumar Das, Sr. ACoM, Date of inspection: 16/01/2018

Details of the Violations Pointed-out during Inspections:

During present inspection, the working quarry was completely waterlogged. No serious violation has been found in the mine.

Note: Validation of the Star Ratings for the F.Y. 2017-18 has been done during inspection.

(Name of the Inspecting Officer and Designation and Date)

Shri Shaival Kartikeya
 Jr. Mining Geologist
 Indian Bureau of Mines, Raipur
 Date of Inspection: 11/12/2018