

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/SRH-7/LST-1

Mine code : 38RAJ24001

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Rohit Solanki, Mine Manager and Sri A.D. Saxena,
Official with
Designation
- (iv) Date of Inspection : 11-NOV-24
- (v) Prev.inspection date : 09-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LAKSHMI CEMENT**
- (b) **Registration NO.** : **IBM/4816/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : SIROHI
- Village : BASANTGARH
- Taluka : PINDWARA
- Post office : JAYKAYPURAM
- Pin Code : 307019
- FAX No. : 02972- 244417 Lease area -
- E-mail : lcwit@lc.jkmail.com
- Phone : 02972- 242267 PBX,244406(O
- (f) Police Station : Pindwara
- (g) First opening date : 02-DEC-81
- (h) Weekly day of rest : MON
2. Address for : J K Lakshmi Cement Works, village Basantgarh
correspondance Teh- Pindwara, District Sirohi, (Raj.)-307019
3. (a) Lease Number : RAJ0017
- (b) Lease area : 414.41
- (c) Period of lease : 20
- (d) Date of Expiry : 11-SEP-00
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : J K CORP LTD
 LAXMI LIME MINE JAY KAY
 PURAM DISTT SIROHI SIROHI
 RAJASTHAN
 Phone:02972- 42265, 42267, 42268
 FAX :02972-44417

Owner : shri A. K. Shukla,
 Nehru house, 4 Bahadur Shah
 Jafar Marg, New Delhi
 UDAIPUR RAJASTHAN
 Phone: 011-33001112
 FAX :

Agent : Dr.S.K.Saxena
 Jay kay Puram, Basantgarh
 Distt Sirohi Rajasthan
 UDAIPUR RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : Shri B. L. Garg, Full Time
 Qualification : Diploma and AMIE
 Appointment/ : 15-APR-16
 Termination date

Geologist

Name : Dr.A.D.Saxena, Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 01-NOV-20
 Termination date

Manager

Name : P. Lodha
 Qualification : B.E.(mining)
 Appointment/ : 07-JUN-10
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	15-FEB-93
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	29-APR-03
	:	Mining Scheme rule 12 MCDR1988	17-FEB-05
	:	Modif.approved Mining Scheme	24-JAN-06
	:	Mining Scheme rule 12 MCDR1988	13-JAN-11
	:	Mining Scheme rule 12 MCDR1988	02-FEB-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	50 BHs with 2750 mts of drilling was proposed during previous year 2022-23.	50 BHs with 2750 mts of drilling was carried out during previous year 2022-23.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year i.e. 2023-24.	No exploration during reporting year 2023-24.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration during RY.	Not applicable as no proposal.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document dated 27/01/2023, an area of 181.03, 24.215 and 14.81 hectare explored under G1, G2 and G3 level respectively. An area of 170.57 hectare under a non-mineralized.	As per approved document dated 27/01/2025, an area of 212.57 hectare explored under G1 level, 43.13 hectare area non-mineralized and area of 134.92 hectare to be explored.	Nil
1e	Balance reserve as on 01/04/20	The position of reserve and resource as per approved document dated 27/01/2023 was 327.41 and 69.04 million tons respectively.	The position of reserve and resource as on 01/04/2024 was 317.40 and 69.04 million tons respectively.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	Geologically the area belongs to Ajabgarh group of Delhi Super group of rock. No proposal and no exploration during RY. An area of 212.57 hectare explored under G1 level, 43.13 hectare area non-mineralized and area of 134.92 hectare to be explored.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Total two pits exists in lease area namely Pit-1 and pit-2. Existing Pit 1 has been proposed to development in eastern and western direction.	Existing Pit-1 developed as per proposal.	A small pit having dimension of 102L x 36W x 4D mts was developed on non-approved area. Violation rule 11(1) of MCDR, 2017 issued vide letter dated 26/11/2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate bench proposed for topsoil & OB, only mineral bench proposed with 9m height.	Benched was developed in mineral as per proposal.	OB in the form of intercalation.
2c	Stripping ratio or ore to OB ratio	1:14.73 T/CuM (Ore to waste ratio)	1:13.49 T/CuM (Ore to waste ratio)	Nil
2d	Quantity of topsoil generation in m3	No proposal.	None.	Nil
2e	Quantity of overburden generation in m3	977793.50 CuM (face and Screen reject)	801234.33 CuM (face and Screen reject)	Face reject and screen reject.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out within proposed limit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Total two pits exists in lease area namely Pit-1 and pit-2. Production was proposed from Pit 1.	Existing Pit-1 developed as per proposal.	A small pit having dimension of 102L x 36W x 4D mts was developed on non-approved area. Violation rule 11(1) of MCDR, 2017 issued vide letter dated 26/11/2024.
3b	Quantity of ROM mineral production proposed	9000098.46 Tons	7182964.00 Tons.	Less production in account of less demand form cement plant.
3c	Recovery of sailable/usable mineral from ROM production	8046088.03 Tons	6484624.000tons.	Less production in account of less demand form cement plant.
3d	Quantity of mineral reject generation	954010.43 Tons (screen Reject)	698340.00 Tons (screen Reject)	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	CaO <30%	Nil
3f	Quantity of sub grade mineral generation.	No proposal.	None.	Nil
3g	Grade of sub grade mineral generation	No proposal.	None.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method for ROM processing i.e. crushing and screening.	ROM is being processed as per proposal.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	None.	Nil

3j	Provision of drilling and blasting in mineral benches	9.9 meter deep drilling including sub-grade drilling. For blasting ANFO mixture and Aluminized Gelled Slurry Explosives (Small Diameter).	As per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Excavator, dumpers, drill machines & dozer etc.	Excavator, dumpers, drill machines & dozer etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 meter bench height proposed which is suitable for method of mining.	Bench height of 9 meter was observed.	Nil
3m	Total area covered under excavation/pits	170.50 Ha	171.29 Ha	Violation of rule 11(1) of MCDR, 2017 issued for deviation in land use vide letter dated 26/11/2024.
3n	Ore to OB ratio for the pit/mine during the year.	1:14.73 T/CuM (Ore to waste ratio)	1:13.49 T/CuM (Ore to waste ratio)	Nil
3o	Total area put in use under different heads at the end of year	An area of 253.60 hectare at the end of year 2023-24.	An area of 251.20 hectare at the end of year 2023-24.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20:8000000 2020-21:8000000 2021-22:8000000 2022-23:8000000 2023-24:9000098	2019-20:7078547 2020-21:6847357 2021-22:7571498 2022-23:7413426 2023-24:7182964	All figures in tons.

3q	General remarks of inspecting officers on method of mining etc.	Open cast method with use of HEMM is being used for carrying out mining operations in the lease area which is best suitable method of mining for type of the deposit for optimum extraction of ore. Deviation in mining area has been observed for which violation of rule 11(1) of MCDR, 2017 issued vide letter dated 26/11/2024.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB (intercalated waste) and screen reject proposed. No proposal of top soil generation.	Waste and screen reject dumped separately. No top soil generation during the RY.	Nil
4b	Location of topsoil, OB and mineral reject dumps	W-1: Active Face reject dumping, SD dump: Screen reject dumping.	W-1: Active Face reject dumping, SD dump: Screen reject dumping.	Out of total three dumps, dumping of waste was proposed in WD-1 and SD dump.
4c	Number of dumps within lease area and outside of lease area	Three dumps WD-1, WD-2 and SD dump within lease area.	All dumps within lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Screen reject dump is outside of UPL. Some portion of face reject waste dump lies within UPL limit.	Screen reject dump is outside of UPL. Some portion of waste dump lies within UPL limit.	Nil
4e	Number of active and alive dumps.	2 (WD-1 and SD).	2 (WD-1 and SD).	Nil
4f	Number of dead dumps.	1 (WD-2)	1 (WD-2)	Nil

4g	Number of dumps established.	No proposal during the RY.	None during the year.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain and retaining wall proposed.	Retaining wall was not constructed.	Violation of rule 11(1) of MCDR, 2017 issued for non construction of retaining wall vide letter dated 26/11/2024.
4i	Length of Retaining wall or garland drain all along dumps	Garland drain: 75 Mtrs, Retaining wall: 80 Mtrs.	Garland drain: 75 Mtrs Retaining wall: Nil	Violation of rule 11(1) of MCDR, 2017 issued for non construction of retaining wall vide letter dated 26/11/2024.
4j	Number of settling ponds	No proposal.	None.	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue related to waste dumping. Retaining wall not constructed for which violation of rule 11(1) of MCDR, 2017 issued vide letter dated 26/11/2024. The permission under 12(1)(k) of MCR has been obtained by the party and waste material stored to dipsos as minor mineral.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of part or full extraction.	The pit is active hence there was no proposal for back filling.	Nil
5b	Area under backfilling of mined out area	No proposal of backfilling.	The pit is active hence there was no proposal for back filling.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	Top soil has not been generated during the RY.	Nil

5d	Total area fully reclaimed and rehabilitated	No proposal of reclamation and rehabilitation during RY.	None of the pit area matured for reclamation and rehabilitation during RY.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			None of the pit area matured for reclamation and rehabilitation, hence, no proposal and work under backfilling and rehabilitation.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year i.e., 2023-24 has been submitted	Submitted along with Annual return 2023-24.
6b	Area available for rehabilitation (ha) .	No proposal.	None.	Nil
6c	afforestation done (ha).	1.0 Hact.	1.0 Hact.	Nil
6d	No. of saplings planted during the year	1000 nos.	1000 nos.	Nil
6e	Cumulative no .of plants	Not specified.	226720 nos at the end of year 2023-24.	Nil
6f	Any other method of rehabilitation	No proposal.	None.	Nil
6g	Cost incurred on watch and care during the year	Not specified.	Rs 300000.00	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	None.	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	None.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	None.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	None.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	None.	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1000 nos.	1000 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.0 Hact.	1.0 Hact.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation.	Plantation.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given for environment monitoring.	The Environmental Monitoring (Core & Buffer Zone) is being done regularly. Few reports have been checked and parameters are found within permissible limit.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The PMCP compliance is satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Usable grade of limestone from ROM mineral will dispatched.	Usable grade of limestone from ROM mineral has been dispatched to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized method for ROM processing i.e. crushing and screening.	ROM is being processed as per proposal.	Nil
7c	Different grade of mineral sorted out at mines.	Cement grade and screen reject (below threshold value).	Usable grade of limestone obtained from ROM after crushing and screening dispatched to captive cement plant and screen reject dumped in screen reject dump.	Nil
7d	Any beneficiation process at mines .	No proposal of beneficiation. Sizing of ROM through crushing and screening.	No beneficiation. Sizing of ROM through crushing and screening.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issues observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	Top soil has not been generated during RY.	Nil

8b	Concurrent use or storage of topsoil	Not applicable as no proposal of top soil generation during RY.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, Proposal given for separate dumping of waste and screen reject dump.	Dumping of waste and screen reject as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 1.0 hectare was proposed to plant with 1000 nos of saplings.	An area of 1.0 hectare was planted with 1000 nos of saplings.	Nil
8g	Survival rate	60%	60% (within lease area).	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control air born dust due to mining activity.	Water sprinkling observed during mine inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty around mine is maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017 monthly and annual return shall be submitted to RCOM.	Monthly and annual return for the RY as per rule 45 of MCDR, 2017 has been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The information of Manger, Mining Engineer and Geologist is furnished.	Mine Manager, Mining Engineer and Geologist has been appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 170.46 ha, Waste disposal: 72.94 ha, Infrastructure : 6.22 ha, Other: 0.75 ha.	The area under mining was not shown correctly.	Violation of rule 45(7) of MCDR, 2017 issued vide letter dated 26/11/2024.
9d	Scrutiny of Annual return on afforestation	Plantation: Within Lease: 1000 nos. and outside lease: 200 no.	The information of plantation is found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: Nil	No mineral Reject has been generated during the RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and grade wise stock: NIL	Appears in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production: Rs.291.95 per ton.	The information of Ex-mine price and cost of production appears in order.	Discrepancy in cost of production was observed for which violation of rule 45(7) of MCDR, 2017 issued vide letter dated 26/11/2024.
9h	Scrutiny of Annual return on fixed assets	Fixed asset value: Rs. 40027749.00/-	Appears in order.	Nil

9k	Scrutiny of Annual return on mining machineries	Front end loader, Back Hoe, Dumper, Dozer, Motor grader, Rock Drill, Jeep, Water tanker, Crusher, Explosive Van etc.	The information of mining machinery furnished appears in order.	Few more discrepancy related to Long term outstanding, DMF & NMET amount, cost of production has been observed for which violation of rule 45(7) of MCDR, 2017 issued vide letter dated 26/11/2024.
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	26-NOV-24				
MCDR17 Rule 45(7)(a)	26-NOV-24				

Date :

(DILIP JAIN)

Indian Bureau of Mines