

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT 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 : **R018** ) **N L ROAT**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri R.C. Nyati, V. P.( Mines)  
Official with  
Designation
- (iv) Date of Inspection : 14-SEP-16
- (v) Prev.inspection date : 01-MAR-16

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **LAKSHMI CEMENT**
- (b) **Registration NO.** :
- (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 : S.K.Wali  
 J.K.Laxmi Cement Ltd.  
 Jaykaypuram, dist: Sirohi  
 Rajasthan SIROHI RAJASTHAN  
 Phone: 02971-242267  
 FAX : 02971-244417

Agent : P. K. Mehta  
 C/O J. K. Lakhmi Cement  
 Ltd. Jaykay Puram,  
 Basantgarh, Tehsil-  
 Pindwara, Distt. Sirohi  
 SIROHI RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : P. Lodha, Full Time  
 Qualification : B.E.(mining)  
 Appointment/ : 01-AUG-03  
 Termination date

## Manager

Name : R C NYATI  
 Qualification : DIPLOMA MINING  
 Appointment/ : 01-AUG-03  
 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	As per approved SOM on 02/2/2015 total 25 bore holes were proposed to drilled during previous year to prove the limestone bed.	No such boreholes were observed to be drilled during inspection.	Violation of Rule 13(1) is pointed out.
1b	Exploration over lease area for geological axis 1 or 2	A total 25 bore holes were proposed to drilled during previous year to prove the limestone bed.	The proposed boreholes during previous year were not observed to be drilled. It working captive limestone mine. As stated in approved SOM on dt. 02/02/2015. a total of 405 boreholes (core & DTH ) with a commulative drilling meterage 21564.5m. have been accomplished in the area.	Nil.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	A total 25 bore holes were proposed to drilled during previous year to prove the limestone bed.	The proposed boreholes during previous year were not observed to be drilled. As stated in approved SOM on dt. 02/02/2015 during the year 2013-14, 1263.0m core drilling has been accomplished in the form of 11 boreholes. The core drilling has been carried out by JKCL through M/S Khanna Associates, New Delhi and about Rs. 44.0 lacs have been spent by JKCL towards the exploration and chemical analysis of samples.	Nil.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for the previous year.	Not applicable.	Nil.
1e	Balance reserve as on 01/04/20	No proposal for the previous year.	As on 01/04/2016 a total of 103 millions tonns.	Nil.

1f	General remarks of inspecting officers on geology, exploration etc	No proposal for the previous year.	As per approved SOM on 02/2/2015 total 25 bore holes were proposed to drilled during previous year to prove the limestone bed.	Violation of Rule 13(1) is pointed out.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Easting 298950 to 300225, Northing 2731465 to 273390.	Easting 298950 to 300225, Northing 2731465 to 273390.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal.	Actually the area is devoid of OB waste.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.22.	1:0.24.	Nil.
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal.	Top soil does not exist.	Nil.
2e	Quantity of overburden generation in m <sup>3</sup>	Interburden 1042724M <sup>3</sup> .	Interburden 808023M <sup>3</sup> .	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No proposal.	The mine development is suitable w.r.t. type of deposit .	Nil.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Nil.
3b	Quantity of ROM mineral production proposed	1231000 Tonns.	8414659.02 Tonns.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	78%.	76%.	Nil.

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3d	Quantity of mineral reject generation	For the year 2015-16-2.71 millions tonns.	For the year 2015-16-2.02 millions tonns.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	<34%CaO.	Nil.
3f	Quantity of sub grade mineral generation.	974700MT.	142359MT.	Nil.
3g	Grade of sub grade mineral generation	Cao-34% to40%.	Cao-34% to40%.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical.	Mechanical.	Nil.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	Nil.
3j	Provision of drilling and blasting in mineral benches	Drilling& blasting is proposed in mineral bench.	Drilling& blasting is done in mineral bench.	Nil.
3k	Provision of mining machineris in mineral benches	Exploitation is proposed to be carried out by machinery in mineral bench.	HEMM are used for benching.	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Yes.	Nil.
3m	Total area covered under excavation/pits	133.42Hect.	132.80Hect.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1.0.22.	1.0.22.	Nil.
3o	Total area put in use under different heads at the end of year	No proposal.	Under pits/excavations-132.80hect, Dumps-45.810hect.& plantations-56.50hect.	Nil.

3p	Production of ROM mineral during the last five year period as applicable	(2011-12)-65.51 lacs MT,(2012-13)-70.01 lacs MT,(2013-14)-70.77lacs MT,(2014-15)-71.23 lacs MT,(2015-16)-12.31lacs	(2011-12)-53.38 lacs MT,(2012-13)-54.29 lacs MT,(2013-14)-58.78lacs MT,(2014-15)-44.80 lacs MT,(2015-16)-8.41lacs	Nil.
3q	General remarks of inspecting officers on method of mining etc.	No proposal.	The method of mining adopted is suitable for the deposit.	Nil.

## 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 IB waste is proposed.No proposal of topsoil	Separate dumping of IB waste is done.No topsoil generation	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Screen Dump- Easting299059.92,N2732605.01	Screen Dump- Easting299059.92,N2732605.01	Nil.
4c	Number of dumps within lease area and outside of lease area	2nos.	2nos.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste-E299722.25-N2731588.03,Screen DUMP-E299059.92,N32605.01.	Waste-E299722.25-N2731588.03,Screen DUMP-E299059.92,N32605.01.	Nil.
4e	Number of active and alive dumps.	Two.	Two.	Nil.
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil.
4g	Number of dumps established.	No proposals.	Garland drain constructed at the base of dumps.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain construction along dump base.	Garland drain construction along dump base.	Nil.

4i	Length of Retaining wall or garland drain all along dumps	470mts.	470mts.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	Nil.
4k	Specific comments of inspecting officer on waste dump management	No proposal.	The waste dump management is satisfactory.	Nil.

#### 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 part is fully extracted of mineral and no proposal of back filling during 2015-16.	Not applicable.	Nil.
5b	Area under backfilling of mined out area	No such proposal.	Not applicable.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal.	Not applicable.	Nil.
5d	Total area fully reclaimed and rehabilitated	No such proposal.	Not applicable.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No such proposal.	No part of worked out pit mature for backfilling.	Nil.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No such proposal.	The annual report on PMCP for the year2015-16 was not submitted.	Violation of Rule 23E(2) is pointed out.

6b	Area available for rehabilitation (ha) .	No such proposal for the year 2015-16.	Not applicable.	Nil.
6c	afforestation done (ha).	2.0hect for the year 2015-16.	Actually as noticed during inspection that the proposed area and numbers of sapling at the site proposed were not found to be carried out.	Violation of Rule 13(1) is pointed out.
6d	No. of saplings planted during the year	Total 3000 saplings for the year 2015-16.	Actually as noticed during inspection that the proposed area and numbers of sapling at the site proposed were not found to be carried out.	Violation of Rule 13(1) is pointed out.
6e	Cumulative no .of plants	No proposal.	Comulative no.of plants- 206120 nos..	Nil.
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil.
6g	Cost incurred on watch and care during the year	No proposal.	Rs8,000,00/-	Nil.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	Not applicable.Actually no void is mature for backfilling.	Nil.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.Actually no void is mature for backfilling.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	No backfilled area available at present.	Nil.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Nil.



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Not applicable.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	Nil.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitorin of air & water is proposed.	Quarterly monitorin of air & water is proposed.	Nil.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Except plantation& construction of garland drain no other specific proposal.	Actoally the tagatted plantation of 3000 saplings for the year 2015-16 was not found to be carried out at the site proposed.	Nil.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During (2015-16 ) 1108000MT.	During (2015-16 ) 6394450MT.	Nil.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	Mechanical.	Nil.
7c	Different grade of mineral sorted out at mines.	No proposal.	No sorting.	Nil.

7d	Any beneficiation process at mines	No proposal.	Crushing of ROM limestone.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal.	Actually the crushed limestone production is dispatched to cement plant.	Nil.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Not applicable.	Nil.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The waste generated is proposed to be dumped separately.	The waste generated is dumped separatelyThe screen rejects and fines generated separately dumped.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for 2015-16.	Not applicable.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal for 2015-16.	In addition to the saplings planted the locally grown vegetation exist in the lease area.	Nil.

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8g	Survival rate	No proposal.	50%.as reported by accompying representative.	Nil.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on all dust generation pointsi.e. haul road.	It is being done.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such proposal.	Except degradation of land it is good.	Nil.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M. R. submitted up to August, 2016 & A. R. submitted for 2015-16.	The position of Submission of M/R & A/R is satisfactory.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes.	Found O.K.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Found O.K.	Nil
9d	Scrutiny of Annual return on afforestation	yes, given	Found O.K.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given for O/B removed & reject generation.	Found O.K.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details Given	Found O.K.	Nil.

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes.	Found O.K.	Nil.
9h	Scrutiny of Annual return on fixed assets	Given.	Details given.	Nil.
9k	Scrutiny of Annual return on mining machineries	Yes	Found O.K.	Nil.

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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
Rule 13(1)	19-OCT-16				
Rule 23E(2)	19-OCT-16				

**Date :**

(N L ROAT)

Indian Bureau of Mines