

**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 : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. R. C. Nyati, VP (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 09-NOV-19
- (v) Prev.inspection date : 18-AUG-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 : S.K.Wali  
 J.K.Laxmi Cement Ltd.  
 Jaykaypuram, dist: Sirohi  
 Rajasthan SIROHI RAJASTHAN  
 Phone: 02971-242267  
 FAX : 02971-244417

Agent : P.L.Mehta  
 Qtr No. J, Jay Kay Puram,  
 Basantgarh SIROHI  
 RAJASTHAN  
 Phone: 9785455630  
 FAX :

## Geologist

Name : ALOK KUMAR GUPTA, Full Time  
 Qualification : M TECH APPLIED GEOLOGY  
 Appointment/ : 16-MAR-09  
 Termination date

## Manager

Name : R C NYATI  
 Qualification : DIPLOMA MINING  
 Appointment/ : 01-AUG-03 06-JUN-10  
 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	No proposal	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	390.625 Hect, Up to 336 MRL	390.625 Hect, Up to 336 MRL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration up to 336 MRL	Exploration up to 336 MRL	
1e	Balance reserve as on 01/04/20	Balance reserves as on 1/4/2019 was 176.87 Million T	Balance reserves as on 1/4/2019 was 176.87 Million T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	No exploration proposed during 2018-19.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2018-19 Central, North & North east side proposed to be worked.	Central, North east side of the lease area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal as there is no top Soil & no O/B waste.	Not applicable	
2c	Stripping ratio or ore to OB ratio	1 : 0.26 (Face Reject & Screen Reject)	1 : 0.33	
2d	Quantity of topsoil generation in m3	No proposal	Not applicable	

2e	Quantity of overburden generation in m3	1678739 Cu M during 2018-19	1495268 Cu M during 2018-19
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development was as per proposals.

---

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	One	
3b	Quantity of ROM mineral production proposed	138.6 MT during 2018-19	81.8 MT during 2018-19.	
3c	Recovery of sailable/usable mineral from ROM production	All the ROM consumed in Captive cement Plant.	All the ROM consumed in Captive cement Plant.	
3d	Quantity of mineral reject generation	20 MT	11.35 MT	
3e	Grade of mineral rejects generation and threshold value declared.	CaO less than 34%	31 % of CaO	
3f	Quantity of sub grade mineral generation.	1.14 MT	1.13 MT	
3g	Grade of sub grade mineral generation	CaO- 34%	CaO- 36 to 39%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	

3j	Provision of drilling and blasting in mineral benches	9 m deep drilling by IBH-10 L-6 & blasting using Slurry explosive, TLD, down the hole delay.	9 m deep drilling by IBH-10 L-6 & blasting using Slurry explosive, TLD, down the hole delay.
3k	Provision of mining machineries in mineral benches	L & T Shovel of 4 Cu M bucket & dumper Combination.	L & T Shovel of 4 Cu M bucket & dumper Combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	166.83 during 2018-19	155.38 during 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.29	1 : 0.33
3o	Total area put in use under different heads at the end of year	Screen Dump- 44.26 ha, Face Dump- 31.63 ha during 2018-19	Screen Dump- 20.90 ha, Face Dump- 31.63 ha during 2018-19
3p	Production of ROM mineral during the last five year period as applicable	2014-15- 71.23 MT, 2015-16- 87.6 MT, 2016-17- 87.6 MT, 2017-18- 102.2 MT, 2018-19- 138.60 MT	2014-15- 67.22 MT, 2015-16- 63.94 MT, 2016-17- 66.69 MT, 2017-18- 68.60 MT, 2018-19- 69.72 MT
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open cast method with use of HEMM has been used for carrying out mining operations in the mine.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top Soil, Reject dumping separately.	No top Soil, Reject dumping separately.	

4b	Location of topsoil, OB and mineral reject dumps	Screen Dump-2018-19- E299040 to E299420 & N2732560 to N2733154	Screen Dump-2018-19- E299040 to E299420 & N2732560 to N2733154
4c	Number of dumps within lease area and outside of lease area	Two Dumps within lease area	Two Dumps within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2019-20-- Waste-UTM-from N-2731610 To- N-2732200 From E-299910- to E-300390 Screen Dump- From N-2732695 to N-2733225, E-299115 to E-299460	2019-20--Waste-UTM-from N-2731610 To-N-2732200 From E-299910- to E-300390 Screen Dump-From N-2732695 to N-2733225, E-299115 to E-299460
4e	Number of active and alive dumps.	Both dumps are active	Both dumps are active
4f	Number of dead dumps.	None	Nil
4g	Number of dumps established.	No dump is stablized completely	No dump is stablized completely
4h	Whether Retaining wall or garland drain all along dumps are there.	Lessee proposed to make garland drains & retaining walls along the dumps.	Lessee have made garland drains & retaining walls along the dumps.
4i	Length of Retaining wall or garland drain all along dumps	Nil during 2018-19	Not applicable
4j	Number of settling ponds	No proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding Waste Dump management.

---

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.	Limestone has not been extract completely from any portion of mine.	Not applicable
5b	Area under backfilling of mined out area	No Proposal	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No area become matured for reclamation.

---

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).	Yes as per rule before 1 July each Year.	Submitted after pointing Violation after inspection of mine dated 18/8/2019.	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	02 ha proposed during 2018-19.	02 ha during 2018-19.	
6d	No. of saplings planted during the year	3000 nos	3500 nos	
6e	Cumulative no .of plants	215720 nos	216720 Nos	
6f	Any other method of rehabilitation	Through plantation.	Through plantation.	
6g	Cost incurred on watch and care during the year	Rs. 8 Lakhs	Rs. 8.5 Lakhs.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Monthly Monitoring	Monthly monitoring being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The compliance of PMCP was satisfactory in the Mine.

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	138.60 Lakh Tonnes	81.08 Lakh Tonnes during 2018-19.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	Work is being carried out as per proposals of mining Plan.	

---

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Top Soil generation	Not applicable	

8b	Concurrent use or storage of topsoil	Not applicable	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes Dumped separately	Yes Dumped separately
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	As per EC & Mining Plan recommendations of MOEF/ Forest Department/IBM.
8g	Survival rate	80 %	80 %
8h	Water sprinkling on roads to control airborne dust	Continuous spraying in haul road and dumps.	Continuous spraying in haul road and dumps.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the Mine was satisfactory.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R Submitted up to November 2019. The A/R submitted for the year 2018-19.	

---

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Found in Order
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Found in Order
9d	Scrutiny of Annual return on afforestation	Given	Found in Order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Found in Order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Figures got corrected after issuing the Violations following inspection dated 18/8/2019.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Figures got corrected after issuing the Violations following inspection dated 18/8/2019.
9h	Scrutiny of Annual return on fixed assets	Given	Found in order
9k	Scrutiny of Annual return on mining machineries	Given	Found in order.

---

**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(Sharma H.C.)

Indian Bureau of Mines