

**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 : **K010**) **Kotriwal B.L.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sh. R C Nyati, VP(Mines)
Official with
Designation
- (iv) Date of Inspection : 18-AUG-19
- (v) Prev.inspection date : 12-JUL-18

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 Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	15-FEB-93
		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 Ha. (Up to 336 mRL)	390.625 Ha. (Up to 336 mRL)	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration Up to 336 mRL	Exploration completed Up to 336 mRL	
1e	Balance reserve as on 01/04/20	Balance reserve as on 01.04.2019 is 176.87 MT	Balance reserve as on 01.04.2019 is 176.87 MT	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No Exploration has been proposed during the year 2018-19. Minor part of mineralised area need to be explored at G-1 level under rule 12(4) of MCDR, 2017. Violation letter has been issued in this regard.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	During the year 2018-19, Central, North, North-East side of the lease area was proposed.	Central, North, North-East side of the lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Nil	

2c	Stripping ratio or ore to OB ratio	During the year 2018-19, 1:0.28 stripping ratio was proposed.	During the year 2018-19, 1:0.33 stripping ratio was achieved.	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	During the year 2018-19 1678739 m3	During the year 2018-19 1495268 m3	Development carried out as per approved Mining Plan
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development has been carried out in the same location as proposed in the approved mining plan.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	During the year 2018-19, 138.6 MT was proposed.	81.8 MT achieved	
3c	Recovery of sailable/usable mineral from ROM production	All ROM mineral used for captive cement plant	All ROM mineral used for 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 is 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	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Entirely using with high grade	Entirely using with high grade
3j	Provision of drilling and blasting in mineral benches	9 mtrs deep drilling by IBH-10 and L- 6. For blasting site mix slurry, TLD, down the hole delay	9 mtrs deep drilling by IBH-10 and L-6. For blasting site mix slurry, TLD, down the hole delay
3k	Provision of mining machineries in mineral benches	Drilling by IBH-10 and L- 6, L&T shovel of 4 cubic mts capacity	Drilling by IBH-10 and L-6, L&T shovel of 4 cubic mts capacity
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	2018-19-166.83 Hect 2019-20-170.15 Hect	2018-19-155.38Hect. 2019-20- 156.26Hect. (As on 31.07.2019)
3n	Ore to OB ratio for the pit/mine during the year.	2018-19-1:0.29 2019-20-1:0.29	2018-19-1:0.33 2019-20-1:0.32(As on 31.07.2019)
3o	Total area put in use under different heads at the end of year	2018-19-Screen dump-44.26 Hect face Dump- 31.63 Hect 2019-20- Screen dump- 46.03 Hect Face Dump- 48.45 Hect	2018-19-Screen dump- 20.90 Hect face Dump-31.63 Hect 2019-20-Screen dump- 20.98 Hect Face Dump-32.54Hect (As on 31.07.2019)

3p	Production of ROM mineral during the last five year period as applicable	2012-13	70.01	2012-13	54.28
		2013-14	70.77	2013-14	58.78
		2014-15	71.23	2014-15	67.22
		2015-16	87.6	2015-16	63.94
		2016-17	87.6	2016-17	66.69
		2017-18	102.2	2017-18	68.60
		2018-19	138.60	2018-19	69.72
		2019-20	138.60	2019-20	25.25 (as on 31st July 2019)

3q	General remarks of inspecting officers on method of mining etc.	Exploitation work is being carried out as per approved Mining Plan.
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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)	No top soil generation, Yes dumping at separate place	No top soil generation, Yes dumping at place	
4b	Location of topsoil, OB and mineral reject dumps	Screen Dump-299040 to 299420 2732560 to 2733154 Screen Dump-299040 to 299420 2732560 to 2733154	Screen Dump-299040 to 299420 2732560 to 2733154	
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)	2018-19-- Waste-UTM-from N-2731625 To- N-2732200 From E-299925- To E- 300390 Screen Dump- From 299040 to 299420 2732560 to 2733154	2018-19--Waste-UTM-from N-2731625 To-N-2732200 From E-299925- To E-300390 Screen Dump-From 299040 to 299420 2732560 to 2733154	
4e	Number of active and alive dumps.	Both dumps are active	Both dumps are active	

4f	Number of dead dumps.	No dead dump	No dead dump	A part of screen dump 6.50Hect area is being stabilized
4g	Number of dumps established.	No dump is stabilized completely	No dump is stabilized completely	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, garland drains & retaining walls are along the dumps.	Yes, garland drains & retaining walls are along the dumps some where and need to be completed.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Violation letter has been issued under rule 11(1) for proper stabilizatin of waste dump.

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 did not extract completely from any portion of mine.	Limestone has not yet been extracted completely from any portion of mine.	
5b	Area under backfilling of mined out area	No proposal	Nil	
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.	No top soil was generated and no back filling was proposed in the year 2018-19
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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).	Submission before 1st July (for 2018-19)	Not submitted	Violation letter was issued under rule 26(2) of MCDR, 2017
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	02 Hactre are was proposed in the year 2018-19	Afforestation is going on in 02 ha. area	
6d	No. of saplings planted during the year	3000	2000 nos. of samplings were planted till July, 2019	
6e	Cumulative no .of plants	215720	214700	
6f	Any other method of rehabilitation	Through Plantation	Through Plantation	
6g	Cost incurred on watch and care during the year	4 Lakhs	4 Lakhs till July, 2019	
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 is being done to measure environmental parameters.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation letter was issued under rule 26(2) of MCDR, 2017 for non-submission of PMCP report for 2018-19.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	138.60 Lak Tonnes	25.25 Lakkh Tonnes as on July, 2019	
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	Nil	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Work is being carried out in accordance with the approved mining plan.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil was generated	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 it is dumped at separate place.	Yes it is dumped at separate place.	
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/IBM dept.	
8g	Survival rate			
8h	Water sprinkling on roads to control airborne dust	Continual spraying in haul road and dumps.	Continual spraying on haul road and dumps	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Work is being carried out in accordance with the mining plan.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return Submitted up to August 2019 Annual return has been submitted for the year 2018-19	Annual return has been scrutinised and discrepancies found in part V & VI	violation letter was issued under rule 45(5)(b)(viii) of MCDR, 2017.
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 not mentioned correctly	Violation letter was issued under rule 45(5)(b)(viii) of MCDR, 2017
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Cost of production as reffered in part VI does not tally with the expenditures reported in part II & III of the annual return 2018-19	Violation letter was issued.
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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(Kotriwal B.L.)

Indian Bureau of Mines