

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL 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. Niyati
Official with
Designation
- (iv) Date of Inspection : 01-MAR-16
- (v) Prev.inspection date : 05-FEB-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LAKSHMI CEMENT**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) 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)
- (e) Police Station : Pindwara
- (f) First opening date : 02-DEC-81
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 : 02-FEB-15
Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	1	311
Ministrial	4	311
Workers	162	311
Supervisory	37	311

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Infrastructure					
Sub total					
Sub total					
Total					

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

During the last inspection on 5/2/2015 violation of rules 13(1), was observed. During the present inspection violation of 16(3) was observed and have been pointed out for compliance.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Suspension of mine operations are not recommended at present

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

- a.Type of prospecting and exploration i.e. pitting, drilling : Scheme of Mining was approved on 2.2.2015. A Total of 25 boreholes were proposed during 2015-16 to convert the indicated & inferred category reserves in to measured category.
- Core boreholes- 25
Total Meterage- 1685m
- b.Total area covered : Not reported in MS Not applicable

B. Working (Rule 13)

- a.Number and size of each pit (LxWxH) :
- b.Bench size(LxWxH)length can be defined as regular/irregular : Mining operations during 2015 -16 proposed in single pit -1 with heavy mechanized method.
- Working confined in single pit No 1, with size about 1870 m X 670.7 m X 70 m.
- c.Ore to waste ratio pit wise if possible otherwise for mine : Not applicable as there is no O/B.
- Not applicable.
- d.Total area covered under excavation/pits : A total of 171.74 ha proposed to be excavated during plan period of five years up to 2019-20.
- As on date of inspection 125.45 ha has been covered under excavation.

C. Waste disposal (Rule 13)

- a.Location of dumps : There is no overburden waste, but the inter burden & generated screen reject had been dumped.
- The part of waste had been dumped within ultimate pit Ltd.
- e.Yearly generation of waste quantity. : 562,099 Cu M for inter burden waste & 676,136 Cu M for screen Reject.
- 487163.8 Cu M for inter burden waste, 1099600 Cu M of screen reject
- b.Method of dumping whether advancing/retreat : Advancing
- Advancing
- c.Total area covered under waste dump. : 59.62 hectares.
- 26.01 ha of waste & 19.12 ha of Screen Reject dumped
- d.No.and size of each waste dump with No of steps/lift/bench : A total of 59.62 ha proposed for dumping.
- A total of 40m height with 4 benches in waste and 50 m height with 5 benches in screen rejects.

D. Production

b.Year wise	: 2011-12-	65.61 Lac	2011-12-	53.38 Lac	T
production of last	T		2012-13-	54.29 Lac	T
five year.	2012-13-	70.01	2013-14-	58.78 Lac	T
	Lac T		2014-15-	67.22 Lac	T
	2013-14-	70.77 Lac			
	T				
	2014-15-	71.23 Lac			
	T				

D. Reserve

a.Reserve position as : Code (111)- 104.27 Additional reserves due
per latest MP/MS and Million T & 93.45 to additional
at the time of million T under prospecting not yet
inspection. probable Category. updated.

RESERVE POSITION AS ON 01/04/2015

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	1042700000	
Probable	934500000	
Possible		
Total	1977200000	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
LIMESTONE	7.12	MT

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

- Efforts for improving low grade and sub grade mineral. : The entire ROM is dispatched to lessee's cement plant, as such no further efforts required.
- Efforts for improving percentage of recovery of ore. : Lessee is doing his best to recover the maximum mineral from ROM.

Mineral Rule 15

- Percentage of recovery of ore : Entire ROM is consumed in lessee's own plant after pitwise w.r.t. ROM and total screening, as such recovery is 80%.
- material
- Number of benches in ore and waste. : There are Eight mineral benches in the pit and no overburden or waste bench.

Sub/grd mineral/fines (Rule16)

- Qty of yearly generation and total qty available during inspection with grade : 1099600 Cu M
- Number and size of each stack : Single stack of 19.12 ha
- Location of stacking. : Near Crusher & screening units
- Separate stacking from waste : There is generation of Subgrade Mineral in the Mine, as screen reject with CaO as 30 To 32%.
- Total area covered for stacking : 19.12 hectares

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
25	1	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	487163.8
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Utilisation of Sub Grade Mineral and Mineral Rejects

Generated	Utilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The lease area is hilly ground, partially degraded by excavated pits. Mining is restricted to well planned layout & fenced pits. Original landscape has been disturbed by the mining activities such as quarrying and dumping of waste & screen rejects.
- b. Aesthetic environment : Aesthetic environment of the area has been disturbed by various mining activities. Which however do not have major impact on the overall aesthetic environment of the area.
- c. Soil and land use pattern : The entire leasehold land of 390.625 ha is comprised of waste land. Out of which about 125.45 hectare land has been disturbed by excavation, 45.13 ha by dumping. The top soil is negligible.
- d. Agriculture : There is no private land within the lease & there is no agriculture activity in the leasehold area.
- e. Forest(flora and fauna) : There is no reserve or protected forest within or nearby the lease. Thorny plants like desi and bilayati babool, khejdi and cactus are found within and the lease area. Other trees like Neem, Pipal etc are also seen locally.
- f. Vegetation : Vegetation is sparse and thorny in nature. Dense plantation had been done in approach road side of mine.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : There are no public buildings, places and monuments protected historical place of worship and places of tourist interest within or nearby the lease.

B Water environment.

- a. Surface water : There are no surface water bodies nearby the lease. The natural drainage system of the area within the lease has not been disturbed by the mine workings or the dumps.
- b. Ground water : Mining activities are above ground water table so no disturbance to the water table has been envisaged.
- c. Quality of water : There is no change in the quality of water as workings are above water table.

C. Air environment

- a. Noise : The noise level is monitored at regular interval & reports showing level within the permissible limits except for few milliseconds when blasting is done. Besides the plantation done help in suppressing noise level.
- b. Air : The air quality is monitored at regular interval & reports showing level within the permissible limits. The haulage roads are sprinkled with pit water regularly to suppress air borne dust.
- c. Climatic condition : The climate of the area is hot and dry and no change in the climatic conditions observed due to mining.

D. Socio economic environment

- a. Social and demographic profile. : The people of the area mostly depend on agriculture for their livelihood and do cattle rearing as a

profession. Some of the villagers are also employed in the nearby mines as daily workers both directly by the lessee and indirectly by the contractors.

- b. Recommending health and safety. : No cause of threat to health & safety was noticed during the inspection except the precautionary measures required for mechanized mining.
- c. Human settlement : There are no human settlements within area of active mining of the lease area.
- d. Recreational facility. : The mine owner makes liberal contribution in the local village festivals and melas. The Cultural programs are organized during MEMC & Safety Week, wherein local villagers are also involved. Besides above annual sports tournaments are also organized for employees of company & local people.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>	<u>2014 - 2015</u>
	Area in Hect.

<u>TOP SOIL MANAGEMENT</u>
Quantity as on 31/03/2015

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Annual returns of the mine was scrutinized and found O.K.

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

Not applicable

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None at present

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None at present

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None at present

Date :

(Sharma H.C.)

Indian Bureau of Mines