

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-20/LST-6

Mine code : 38RAJ20007

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Bajrang Lal, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 11-SEP-19
- (v) Prev.inspection date : 16-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHANAPPA (400 HA)**
- (b) **Registration NO.** : **IBM/800/2012**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **NAGAUR**
- Village : **DHANAPPA**
- Taluka : **MERTA CITY**
- Post office : **GOTAN**
- Pin Code : **342902**
- FAX No. : **01591-230206**
- E-mail : **gotan@jkcement.com**
- Phone : **01591-230376**
- (f) **Police Station** : **Gotan**
- (g) **First opening date** : **08-APR-74**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S J.K.WHITE CEMENT WORKS**
Gotan, Tehsil- Merta City,
Disstt. NAGAUR
3. (a) **Lease Number** : **RAJ0115**
- (b) **Lease area** : **400**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **07-APR-34**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : J K WHITE CEMENT WORKS
 J K WHITE CEMENT WORKS
 POST-GOTAN NAGAUUR NAGAUUR
 RAJASTHAN
 Phone:
 FAX :

Owner : Sh. Ajay Kumar Saraogi
 M/s J.K. White Cement Works
 Kamla Tower. Kanpur,
 Distt.- Kanpur State- U.P.
 NAGAUUR RAJASTHAN
 Phone: 0512-2371478-83
 FAX : 0512-2399854

Agent : Sh. Subhash Kumar Jain
 M/s J.K. White Cement
 Works, (A Unit of J.K.
 Cement Ltd.) PO : Gotan,
 Tehsil-Merta city, NAGAUUR
 RAJASTHAN
 Phone: 01591-230201-03
 FAX : 01591-230206

Mining Engineer

Name : Bajrang Lal, Full Time
 Qualification : B. E. (Mining)
 Appointment/ : 29-JUN-10
 Termination date

Geologist

Name : Deep Kishore Saraswat, Full Time
 Qualification : M Sc Geology
 Appointment/ : 16-OCT-12
 Termination date

Manager

Name : Sh. Bajrang Lal
 Qualification : B.E. Mining (First Class)
 Appointment/ : 29-JUN-10
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	22-JUN-93
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	25-JUL-00
		Mining Scheme rule 12 MCDR1988	28-MAR-05
		Mining Scheme rule 12 MCDR1988	31-MAY-10
		Renewal under rule 24 MCR1960	20-MAY-14
		MP review under 17(1) MCR 2016	27-FEB-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Not applicable	No proposal
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not applicable	
1e	Balance reserve as on 01/04/20	19208590 T	18735490 T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The entire mineralised area had been explored.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	3A-- 10700N - 10200N to 10300E- 10400E, 10800N-10500N to 9800E- 9600E, 2A- 9900N- 9400N to 10450E- 10550E, 2B & 1C- 9050N- 8900N to 10750E- 8900N to 10750E- 10600E	3A-- 10700N - 10200N to 10300E- 10450E, 10690N- 10590N to 9750E-9650E, 2A- 9900N- 9400N to 10450E-10600E, 2B & 1C- 9050N- 8900N to 10750E- 8900N to 10750E- 10600E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	0.89 : 1	0.74:1	

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	217246 Cu M	252500 Cu M
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	No issue regarding development of mine.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 Nos namely 3A, 2A, 2B & 1C	4 Nos namely 3A, 2A, 2B & 1C	
3b	Quantity of ROM mineral production proposed	485884T	473100 T	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

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	Jack hammer drilling & Wagon drilling M/C and blasting with slurry explosives.	Jack hammer drilling & Wagon drilling M/C and blasting with slurry explosives.
3k	Provision of mining machineries in mineral benches	Use of HEMM proposed	HEMM Deployed
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	91.250 ha	91.91 ha
3n	Ore to OB ratio for the pit/mine during the year.	0.89 :1	0.74:1
3o	Total area put in use under different heads at the end of year	Pits- 91.250 ha, Tar road- 1.45 ha, Mineral stack- 1.63 ha, Infrastructure - 0.54 ha, Green Belt- 11.44 ha, Waste Dump- 17.96 ha	Pits- 91.91 ha, Tar road- 1.45 ha, Roads- 2.6 ha, Mineral stack- 1.63 ha, Infrastructure- 0.54 ha, Green Belt- 11.44 ha, Waste Dump- 17.96 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15=500870T, 2015-16=493451T, 2016-17-482675T, 2017-18- 473008 T, 2018-19-485884 T.	2014-15=489350T, 2015-16=489950T, 2016-17-454900T, 2017-18- 466790 T, 2018-19-473100 T.

3q General remarks Not applicable The opencast semi mechanized method has been adopted for carrying out the mining operations in the lease area which is best suited to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The O/b excavated will be stacked & back filled in the mining pits. No top soil generation envisaged.	No top soil generated. The O/B waste was used for backfilling.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil - No generation, O/B waste dumping at WD1A, WD2A, WD2B, WD2C & WD3B	Top soil - Not generated, O/B waste dumping at WD1A, WD2A, WD2B, WD2C & WD3B	
4c	Number of dumps within lease area and outside of lease area	5 Nos within lease area.	5 Nos within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside UPL	In side UPL	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	5 Nos	5 Nos	
4g	Number of dumps established.	No Proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	No specified proposal for construction of retaing wall.	Retaining wall not constructed	

4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The retaining wall around the inactive waste dumps not constructed.

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.	Full extraction before backfilling	Full extraction before backfilling	
5b	Area under backfilling of mined out area	5.318ha During 2018-19, Cummulative- 36.24 ha	7.98 ha During 2018-19, Cummulative- 41.88 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil generation during 2018-19- Nil	Top soil generated during 2018-19- Nil	
5d	Total area fully reclaimed and rehabilitated	2018-19- Nil	Plantation over bacfilled area - 3 ha.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The work of back filling & plantation over it was satisfactory.	

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	Yes submitted	
6b	Area available for rehabilitation (ha) .	Nil during 2018-19	Nil during 2018-19	

6c	afforestation done (ha).	3 ha	3 ha
6d	No. of saplings planted during the year	3000 nos during 2018-19	3070 nos during 2018-19
6e	Cumulative no .of plants	39615 nos	42030 nos
6f	Any other method of rehabilitation	No proposal	Not applicable
6g	Cost incurred on watch and care during the year	No proposal	Rs. 1134255/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.16 ha during 2018-19	0.83 during 2018-19
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5.318 ha	7.98 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	3.0 ha	3.0 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil during 2018-19	Nil during 2018-19

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring at quarterly interval.	Regular monitoring at Monthly interval.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The implementation of PMCP proposals were satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No dispatch target given in proposals.	480980.41 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	White Cement grade & grey Cement grade.	White Cement grade & grey Cement grade.	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding conservation of mineral.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation envisaged during 2018-19.	No top soil generated during 2018-19.	
8b	Concurrent use or storage of topsoil	No storage & use.	No storage & use.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumping of waste for backfilling.	Seperate dumping of waste in backfilled area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of O/B waste in backfilling.	Used O/B waste in backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling & plantation over backfilled area.	Backfilling & plantation over backfilled area.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific proposals made.	A total of 42030 nos of trees planted so far over an area of 17.96 ha.	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
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 upto Aug 2019. The A. R. Submitted for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Mines Manager- Sh. Bajrang Lal, Geologist- Sh Deep Kishore Saraswat.	Mining Engineer & Mines Manager- Sh. Bajrang Lal, Geologist- Sh Deep Kishore Saraswat.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits- 91.91 ha, Reclaimed 41.88 ha, Waste disposal 17.96 ha, Infrastructure - 1.99 ha, Roads - 2.6 ha.	Under pits-91.91 ha, Reclaimed 41.88 ha, Waste disposal 17.96 ha, Infrastructure- 1.99 ha, Roads - 2.6 ha.	
9d	Scrutiny of Annual return on afforestation	3070 Nos planted within lease & 1000 planted outside lease area.	3070 Nos planted within lease & 1000 planted outside lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generated - Nil	Reject generated - Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock Nil, Production 473100 T & closing Stock - Nil.	Opening stock Nil, Production 473100 T & closing Stock - Nil.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 378.37 per Tonnes Shown.	A total of Rs. 176681180.00 had been expensed to raise a total production of 473100 T of Limestone, there by the cost of production comes about Rs. 373.454 per tonnes which had been shown as Rs. 378.37 per Tonnes.	
9h	Scrutiny of Annual return on fixed assets	The Value of Fixed assets = Rs. 59992516 & depreciation during the year = Rs. 5561444.00.	The Value of Fixed assets = Rs. 59992516 & depreciation during the year = Rs. 5561444.00.	

9k Scrutiny of Detailed list Found in Order.
Annual return on of M/C
mining deployed
machineries Furnished.

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