

**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 : **G021**) **D R GURJAR**
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 : 16-JAN-19
- (v) Prev.inspection date : 15-FEB-18

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 : **factory@jk-white.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** :
- (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 NAGOUR NAGOUR
 RAJASTHAN
 Phone:
 FAX :

Owner : J.K. WHITE CEMENT WORKS
 NAGOUR RAJASTHAN
 Phone:
 FAX :

Agent : Rajeev Sharma
 J. K. White Cement works.
 Tehsil _Gotan, Disstt.
 Nagaur NAGOUR RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : Bajrang Lal, Full Time
 Qualification : B. E. (Mining)
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal for the year 2017-18.	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for the year 2017-18.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2018 19208590 Tonnes	Balance reserves as on 01.04.2018 19208590 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The work of lessee is satisfactory for exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 3A, 2A and Pit 2B & 2C	Pit 3A, 2A, 1A and Pit 2B & 2C	Some deviation in mine development location in Pit no. 3A and mine development in Pit 1A has been carried out which was not proposed upto year 2018-19 hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	2017-18-0.77	2017-18-0.89	

2d	Quantity of topsoil generation in m3	No top soil generation proposal for the year 2017-18.	Nil	
2e	Quantity of overburden generation in m3	2017-18-145800 M3	2017-18-166400 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Some deviation in mine development has been pointed out as violation of rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 No. of Pits (3A,2A,2B & 1C)	5 No. of Pits (3A,2A,2B & 1C, 1A)	Mine development in Pit 1A has been carried out which was not proposed upto year 2018-19 hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
3b	Quantity of ROM mineral production proposed	2017-18-473008 Tonnes	2017-18-466790 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	2017-18-473008 Tonnes	2017-18-466790 Tonnes	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable.	
3g	Grade of sub grade mineral generation	No proposal	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	None
3j	Provision of drilling and blasting in mineral benches	Yes	Yes, as per proposal
3k	Provision of mining machineries in mineral benches	Yes Tractor mounted Compressor, Jack Hammer Drill, L&T komastu,Backho &Tata Hitachi 110 with rock breaker,Wagon Drill Machine,Compre ssor ELGI- 2,Tata JD Breaker etc.	Yes Tractor mounted Compressor, Jack Hammer Drill, L&T komastu,Backhoe Kobelco &Tata Hitachi 110 with rock breaker,Wagon Drill Machine,Compressor ELGI- 2,Tata JD Breaker etc.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per proposal
3m	Total area covered under excavation/pits	2017-18-91.09 hect.	2017-18-91.08 hect.
3n	Ore to OB ratio for the pit/mine during the year.	2017-18-0.77	2017-18-0.89

3o	Total area put in use under different heads at the end of year	2017-18 Pits=91.09ha, Tar road=1.45Ha, Roads=2.6Ha, Mineral stack=1.63Ha, Infrastructure=0.54ha, Green belt=11.44ha Waste dump area=17.96 ha	2017-18-Pits=91.08ha, Tar road=1.45Ha, Roads=2.6Ha, Mineral stack=1.63Ha, Infrastructure=0.54h Green belt=11.44ha Waste dump area=17.96 ha	
3p	Production of ROM mineral during the last five year period as applicable	2013-14=500870T 2014-15=494810T 2015-16=493451T 2016-17=482675T 2017-18=473008T 2018-19=485884T	2013-14=350860T 2014-15=489350T 2015-16=489950T 2016-17=454900T 2017-18=466790T 2018-19=356850T(Up to 31.12.2018)	
3q	General remarks of inspecting officers on method of mining etc.		The method of mining is suitable to the deposit.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB generated from the mines will be stacked in the mining pits in year. backfilled areas and no top soil will be generated during the year.	The overburden generated was used for back filling and top soil was not generated during the year.	

4b	Location of topsoil, OB and mineral reject dumps	As per Plan	Being done as per plan	Backfilling between grid 10700E to 1010470E & 8760N to 9000N has also been carried out apart from proposed locations which was not proposed up to year 2018-19 hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
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)	Located inside ultimate pit limit, presently waste is being used for backfilling.	Located inside ultimate pit limit, presently waste is being used for backfilling.	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	5 Nos.	5 Nos.	
4g	Number of dumps established.	No such proposal	5 Nos.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for the year 2017-18.	Nil during the year 2017-18.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal for the year 2017-18.	Nil during the year 2017-18.	
4j	Number of settling ponds	No proposal	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management			Currently all OB/ waste is being used for backfilling.

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	2017-18-4.378 hect. during the year 2017-18	2017-18-4.5 hect. during the year 2017-18.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal during the year 2017-18.	No top soil generated during the year 2017-18.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Approximately 16.99 hect. area has been reclaimed by way of backfilling and plantation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The lessee's conduct towards backfilling 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	Yes submitted.	
6b	Area available for rehabilitation (ha) .	None	Not applicable.	
6c	afforestation done (ha).	4.54 Hect.	4.5 Hect.	
6d	No. of saplings planted during the year	4500 nos.	4585 nos.	
6e	Cumulative no .of plants	No proposal	38960 nos.	
6f	Any other method of rehabilitation	No proposal	Not applicable.	

6g	Cost incurred on watch and care during the year	No Proposal	Rs. 5.25 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	4.378 hect.	4.5 hect.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.378 hect.	4.5 hect.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	4.5 hect	4.5 hcet.
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.	Not apecified	Not applicable.
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	Not applicable.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not specified	`Not applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per EC and consent to operate conditions.	Being monitored.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatched to captive cement plant.	2017-18 449281.24 tonnes dispatched to captive cement plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Limestone for White cement grade & Other Usable Grade for grey cement	Limestone for White cement grade & Other Usable Grade for grey cement	
7d	Any beneficiation process at mines .	No proposal	Not applicable.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The lessee's performace towards mineral conservation is satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposal during the year 2017-18.,	No top soil generated during the year 2017-18.	
8b	Concurrent use or storage of topsoil	No top soil generation proposal for the year 2017-18.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	OB/ waste is being used for backfilling of mined out areas.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of OB for backfilling.	Over burden is being used for backfilling the worked out area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling & Plantation on back filled area	Backfilling & Plantation on back filled area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed over back filled area	Plantation done on back filled area	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around the mines is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

9a	Status of submission of Monthly and Annual returns	M.R Submitted upto- Jan 2018 A.R. Submitted upto-2017-18.	M.R Submitted upto- Jan 2018 A.R. Submitted upto- 2017-18.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Detail given	Mines Manager - Bajrang Lal Mining Engineer Incharg- Bajrang Lal Mines Engineer - Imran Khan Geologist - Deep Kishore saraswat	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Detail given	Pits=91.08ha, Tar road=1.45Ha, Roads=2.6Ha, Mineral stack=1.63Ha, Infrastructure=0.54h Green belt=11.44ha Waste dump area=17.96 ha Back filled area=33.90 ha	
9d	Scrutiny of Annual return on afforestation	Detail given	4085 nos. plants	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail given	Nil mineral reject.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail given	Closing stock of Limestone 207555.84 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Detail given	Rs. 376	In annual return 2017-18 following discrepancies were observed related to cost of production, royalty amount, overhead cost, mining cost etc. has been pointed out in form of violation of Rule 45(7) of MCDR 2017.
9h	Scrutiny of Annual return on fixed assets	Detail given	Value of fixed asset= Rs59853960	

9k Scrutiny of Detail given As per mining plan.
Annual return on
mining
machineries

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
MCDR17	Rule 11(1)	07-FEB-19			
MCDR17	Rule 13(2)	07-FEB-19			
MCDR17	Rule 45(7)(a)	07-FEB-19			

Date :

(D R GURJAR)

Indian Bureau of Mines