

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Deep Kishore Saraswat, Geologist and Imran Khan,  
Official with  
Designation
- (iv) Date of Inspection : 03-MAR-20
- (v) Prev.inspection date : 11-SEP-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 : **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** : **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 NAGOUR NAGOUR  
 RAJASTHAN  
 Phone:  
 FAX :

Owner : Sh. K.N. Khandelwal  
 M/s J.K. White Cement  
 Works, Kamla Tower. Kanpur,  
 Distt.- Kanpur State- U.P.  
 -208001 NAGOUR RAJASTHAN  
 Phone: 0512-2371478-83  
 FAX : 0512-2399854

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

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 Plan/Scheme of Mining : Renewal under rule 22 MCR1960 22-JUN-93  
 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	No proposal of exploration.	Not applicable.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during RY.	Not applicable as no proposal.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal.	Not applicable.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for reporting year ( RY).	As per approved document dated 27/02/2019, entire mineralised area (272.14 Ha) is explored under G1 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 27/02/2019, the position of reserve and resource was 13.78 and 5.35 million tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 13.38 and 5.35 million tonnes respectively.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	Entire mineralised area (272.14 Ha) is explored under G1 level of exploration.	NIL.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	3A: 10700N-10200N to 10300E-10400E and 10800N-10500N to 9800E-9600E. 2A: 9900N-9400N to 10450E-10550E. 2B&1C: 9050N-8900N to 10750E-10600E.	3A: 10700N-10200N to 10300E-10400E and 10800N-10500N to 9800E-9600E. 2A: 9900N-9400N to 10450E-10550E. 2B&1C: 9050N-8900N to 10750E-10600E.	Development has been carried out within approved limits of the development.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	Observed as per proposal.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.89	1:0.75	CuM/Ton
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	217246 CuM or 543115 Ton.	252500 CuM or 631250 Ton.	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Develop has been carried out as per proposal.	No issue regarding development.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 No. of Pits (3A, 2A, 2B & 1C).	4 No. of Pits (3A, 2A, 2B & 1C).	NIL.
3b	Quantity of ROM mineral production proposed	485884 Ton	473100 Ton	NIL.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL.
3d	Quantity of mineral reject generation	No proposal.	Not applicable.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal.	Not applicable.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.

3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	NIL.
3j	Provision of drilling and blasting in mineral benches	Jack hammer and wagon drilling along with slurry explosive for blasting.	Jack hammer and wagon drilling along with slurry explosive for blasting.	NIL.
3k	Provision of mining machineries in mineral benches	Tractor mounted Compressor, Jack Hammer Drill, L&T komastu ,Backhoe Kobelco &Tata Hitachi 110 with rock breaker ,Wagon Drill Machine, Tata JD Breaker etc.	Tractor mounted Compressor, Jack Hammer Drill, L&T komastu ,Backhoe Kobelco &Tata Hitachi 110 with rock breaker ,Wagon Drill Machine, Tata JD Breaker etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Mtr in OB bench 3 Mtr in L/S bench	Suitable for method of mining proposed.	NIL.
3m	Total area covered under excavation/pits	91.250 Ha.	91.91 Ha.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.89	1:0.75	CuM/Ton

3o	Total area put in use under different heads at the end of year	Pits= 91.250 ha, Tar road=1.45Ha, Roads=2.6Ha, Mineral stack=1.63Ha, Infrastructure=0.54ha, Green belt=11.44ha, Waste dump area=17.96 ha	Pits= 91.250 ha, Tar road=1.45Ha, Roads=2.6Ha, Mineral stack=1.63Ha, Infrastructure=0.54ha, Green belt=11.44ha, Waste dump area=17.96 ha	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15=494810  2015-16=493451  2016-17=482675  2017-18=473008 2018-19=485884	2014-15=489350 2015-16=489950  2016-17=454900  2017-18=466790 2018-19=473100	Figures in Ton.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of the mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is best suitable.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The OB generated from the mines has been proposed to backfilled in the mine out area and no proposal of top soil, mineral reject generation.	The waste generated during the year has been backfilled in the mine out area. No generation of top soil and mineral reject.	NIL.

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.	NIL.
4c	Number of dumps within lease area and outside of lease area	5 Nos, within lease area	5 Nos, within lease area	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Located inside ultimate pit limit.	Located inside ultimate pit limit.	NIL.
4e	Number of active and alive dumps.	No proposal of dumping.	Not applicable.	NIL.
4f	Number of dead dumps.	5 Nos	5 Nos	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not constructed during the year.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to backfill in mined out pit area.	Waste has been backfilled in mined out area.	No issues related to waste dumping.

#### 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.	NIL.

5b	Area under backfilling of mined out area	5.318 Ha. during the year & 36.24 ha cumulative area.	7.98 ha during the year and 41.88 ha cumulative area.	More area reclaimed in the interest of early reclamation of mine out area.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Plantation on back filled area= 3.0 ha	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposal of backfilling has been envisaged after full extraction of mineral.	Generated waste has been backfilled in the mine out area.	No issues related to backfilling.

#### 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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	Yearly report of the PMCP has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	Not specified.	3.0 Ha. area afforested during the year.	NIL.
6c	afforestation done (ha).	3.0 Ha.	3.0 Ha.	NIL.
6d	No. of saplings planted during the year	3000	3070	NIL.
6e	Cumulative no .of plants	39615	42030	NIL.
6f	Any other method of rehabilitation	No proposal.	Not applicable.	NIL.



6g	Cost incurred on watch and care during the year	Not specified.	Rs. 1134255/- (as reported).	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	5.318 Ha. during the year.	7.98 ha during the year.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	543115 Ton	631250 Ton	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	3 Ha.	3 Ha.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Not applicable.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	NIL.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for monitoring of Environment parameter.	Regular monitoring is being done.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Planation over 3.0 ha with 3000 numbers of saplings has been proposed.	An area of 3.0 has been planted with 3070 numbers of saplings within lease area.	The implementations 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 grade wise sorting. Only manual piking for deleterious material.	As per proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	NIL.
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	NIL.
7d	Any beneficiation process at mines .	No beneficiation process at mine.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable as no proposal.	No issued related to Mineral conservation.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	No top soil generated.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste has been proposed to backfilled in mine out area. No proposal of mineral rejects generation.	Waste generated has been backfilled and no mineral reject generation.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of Overburden for backfilling.	Over burden has been used for backfilling of mine out area.	NIL.
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.	NIL.
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.	NIL.
8g	Survival rate	NO proposal.	70% as per AR 2018-19.	NIL.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed.	Water sprinkling observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Proposal of backfilling and plantation has been envisaged.	Backfilling and plantation has been carried out.	The general aesthetic beauty of in and around mine was satisfactory.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Manager, Mining Engineer and Geologist.	Manager, Mining engineer and geologist appointed.	Scrutiny of AR 2018-19.
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.	NIL.
9d	Scrutiny of Annual return on afforestation	3070	Found Ok.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Nil and Graded stock: 199675.430 tonnes.	ROM: Nil and Graded stock: 199675.430 tonnes.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price & production cost is Rs.378.37 per tonne.	Information furnished has been found to correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 59992516/-	The information furnished found to correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back hoe, Dumper, Water Tanker, Explosive Van, Rock Drill, Blast Hole Drill, Air compressor, Pumps etc.	Furnished information is satisfactory.	NIL.

**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 :**

**(DILIP JAIN)**

Indian Bureau of Mines