

**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 : Shre Deepak Kalla, Mines Agent  
Official with  
Designation
- (iv) Date of Inspection : 03-NOV-23
- (v) Prev.inspection date : 21-NOV-22

**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 : NAGAUUR
- 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 : J. K. White Cement Works (Unit of J K Cement Ltd  
correspondance Gotan, Tehsil- Merta City,  
Distt. NAGAUUR (Rajasthan)
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. CEMENT LIMITED  
 Kamla Tower KANPUR URBAN  
 UTTAR PRADESH  
 Phone:  
 FAX :

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

Agent : Deepak Kalla  
 M/s J.K. White Cement Works  
 PO : Gotan, Tehsil-Merta  
 city Distt.- Nagaur,  
 Rajasthan NAGOUR RAJASTHAN  
 Phone: 01591-230201  
 FAX : 01591-230206

Mining Engineer  
 Name : Bajrang Lal, Full Time  
 Qualification : B. E. (Mining)  
 Appointment/ : 29-JUN-10 04-FEB-22  
 Termination date

Mining Engineer  
 Name : Deepak Kumawat, Full Time  
 Qualification : B.E. Mining  
 Appointment/ : 04-FEB-22  
 Termination date

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

Manager  
 Name : Deepak Kumawat  
 Qualification : BE Mining  
 Appointment/ : 04-FEB-22  
 Termination date

Manager  
 Name : Sh. Bajrang Lal  
 Qualification : B.E. Mining (First Class)  
 Appointment/ : 29-JUN-10 04-FEB-22  
 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  
MP review under 17(1) MCR 2016

20-MAY-14  
27-FEB-19

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog of previous year.	None	No backlog in previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the year 2022-23.	None	Total 272.14 hect. mineralized area covered under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of exploration during the year 2022-23.	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal of exploration during the year 2022-23.	Not applicable as no proposal	Entire 272.14 hect. mineralized area covered under G1 level.
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 as on 30.09.2018.	The position of reserve and resource as on 01/04/2023 was 11.56 and 5.35 million tonnes respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Pit 1A 10800 E-10900 E & 9415 N- 9585 N Pit 1B 10680 E-10780 E & 9280 N-9400 N Pit 2A 10550 E-10680E & 9600 N- 9810 N, 10140 E-10180 E & 9313 N- 9495 N Pit 2B 10295 E-10375 E& 8880 N-8950 N Pit 3A 9760 E-9873 E & 10842 N-10945 N, 10430 E-10500 E & 10242 N- 10575 N Pit 3A2 9645 E-9832 E & 10670 N-10790 N	Mine development has been carried out within proposed limit.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	Observed.	Nil
2c	Stripping ratio or ore to OB ratio	2022-23: 1:0.48	2022-23: 1:0.52	Tonne: Tonne
2d	Quantity of topsoil generation in m3	2022-23: 6666 cum	2022-23: 6615 cum	Nil
2e	Quantity of overburden generation in m3	2022-23: 95317 cum	2022-23: 94076 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out within proposed limit during the year 2022-23.

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**Exploitation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	6 No. of Pits (Pit no. 1A, 1B,2A, 2B, 3A,& 3A2)	6 No. of Pits (Pit no. 1A, 1B,2A, 2B, 3A,& 3A2)	Nil
3b	Quantity of ROM mineral production proposed	2022-23: 492035T	2022-23: 453215T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2022-23: 492035T	2022-23: 453215T	Nil
3d	Quantity of mineral reject generation	No proposal.	No generated during the year.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal.	None	Nil
3f	Quantity of sub grade mineral generation.	No proposal	None	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal.	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal.	Not applicable as no proposal.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	None	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	For Mineral Benches- Tractor mounted Compressor, Jack Hammer Drills,Tata JD Breaker, JCB Breaker etc. For Overburden Benches- L&T komastu , Tata Z-axis220,Wagon Drill Machine, Compressor ELGI-2, Dumpers (Tata & Bharat Benz) etc.	For Mineral Benches- Tractor mounted Compressor, Jack Hammer Drills,Tata JD Breaker, JCB Breaker etc. For Overburden Benches- L&T komastu , Tata Z-axis220,Wagon Drill Machine, Compressor ELGI-2, Dumpers (Tata & Bharat Benz) etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal of 6m maximum height.	As per proposal	Nil
3m	Total area covered under excavation/pits	103.66 hect. (Up to year 2023-24 as per approved review of mining plan)	111.33 hect. up to year 202-23.	For more area put to use reported as compare to proposal under head excavation/pits, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.
3n	Ore to OB ratio for the pit/mine during the year.	2022-23: 1:0.48	2022-23: 1:0.52	Tonne: Tonne
3o	Total area put in use under different heads at the end of year	Pits= 103.06 ha, Tar road(Village Road)=1.45Ha, Mine ine Roads=2.6Ha, Mineral stack=1.94Ha, Infrastructure=0.54, Waste dump area=17.96 ha etc.	Pits= 111.33 ha, Tar road(Village Road)=1.45Ha, Mine Roads=2.6Ha, Mineral stack=1.94Ha, Infrastructure=0.54, Waste dump area=20.05 ha etc.	For more area put to use reported as compare to proposal under head excavation/pits & waste dumps, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.

3p	Production of ROM mineral during the last five year period as applicable	2018-19=485884 2019-20=487732 2020-21=490830 2021-22=491915 2022-23=492035 2023-24=496949	2018-19=473100 2019-20=431300 2020-21=450600 2021-22=482480 2022-23=453215 2023-24=249450 (Up to Oct.23)	Figures in tonnes.
3q	General remarks of inspecting officers on method of mining etc.			Open cast mining method is adopted 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 OB generated from the mines has been proposed to backfilled in the mined out area. The top soil will be simultaneously utilized on the backfilled area for plantation.	The overburden generated was used for back filling.The top soil has been simultaneously utilized on the backfilled area for the plantation.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top Soil Location- Pit 3 between 10380N-10435N & 10183E-10235E OB will be use to backfill of mined out area of various pits.	Top Soil utilized on back filled area simultaneously for plantation. OB used for backfilling in mined out area of various pits.	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 both inside and out side of ultimate pit limit.	Located both inside and out side of ultimate pit limit.	Nil
4e	Number of active and alive dumps.	No proposal.	Nil	Nil



4f	Number of dead dumps.	5 nos.	5 nos.	Nil
4g	Number of dumps established.	No such proposal during the year 2022-23.	5 nos.	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 during the reporting year 2022-23.	None during the year.	Nil
4j	Number of settling ponds	No proposal.	Not constructed during the year	Nil.
4k	Specific comments of inspecting officer on waste dump management			Waste is being used for backfilling of mined out areas. No issue observed related to waste dump management.

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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 of mineral before backfilling.	Full extraction of mineral before backfilling.	Nil

5b	Area under backfilling of mined out area	2022-23: 1.145 hect. area	2022-23: 0.45 hect area.	However, backfilling extended in Pit 3A towards north east side, in Pit 3E towards south western side, in Pit 2A towards north eastern side and in Pit 1C towards north eastern side beyond the proposed backfilling location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes for plantation	As per proposal	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the year	Plantation on back filled area in year 2022-23= 3.179 ha, Cumulative Plantation over backfilled area=30.779 hect.	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.	Backfilling extended in Pit 3A towards north east side, in Pit 3E towards south western side, in Pit 2A towards north eastern side and in Pit 1C towards north eastern side beyond the proposed backfilling location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR,2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2022-23 has been submitted timely.	Nil
6b	Area available for rehabilitation (ha) .	No specific proposal.	3.179 Ha. area afforested over backfilled area during the year.	Nil
6c	afforestation done (ha).	2022-23: 3.83 hect. over backfillied area	2022-23: 3.179 hect. over backfillied area	Nil
6d	No. of saplings planted during the year	2022-23: 3830 nos.	2022-23: 4133 nos.	Nil
6e	Cumulative no .of plants	54550 nos.	57574 nos.	Up to year 2022-23.
6f	Any other method of rehabilitation	No proposal	Not applicable as no proposal	Nil
6g	Cost incurred on watch and care during the year	No specified.	Rs. 1470228	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal given	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2022-23: 1.145 hect area	2022-23: 0.45 hect area	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	2022-23: 3.83 hect area	2022-23: 3.179 hect area	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	None	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	None	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	None	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	None	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring proposed.	Regular monitoring is being done.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance of the mine is satisfactory.

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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone for White cement grade & other usable grade for grey cement.	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 issued observed related to Mineral conservation.

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil was proposed.	Separate removal and utilization of topsoil was carried out as per proposal.	Nil
8b	Concurrent use or storage of topsoil	The top soil will be simultaneously utilized on the backfilled area for plantation.	The top soil has been simultaneously utilized on the backfilled area for the plantation.	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.	Overburden 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 backfilled area.	Backfilling & Plantation on backfilled area.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific proposals made.	Total 4133 nos. sapling planted over backfilled area during the year 2022-23.	Nil
8g	Survival rate	No specific proposal.	55%	As per AR 2022-23.
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			The general aesthetic beauty of in and around mine was satisfactory.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly returns upto Dec., 2023 and Annual returns for the year 2022-23 have been submitted timely.	Timely submission of returns.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager - Deepak Kumawat Mining Engineer Incharge- Deepak Kumawat	Found ok	Nil
		Geologist - Deep Kishore Saraswat		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits=111.334ha , Tar road=1.45Ha, In frastructure=.54ha, Waste dump area=20.050 ha etc.	Seems corrected.	However as per approved review of mining plan, the area put to use at the end of review of mining plan period( up to 2023-24) under head mining is proposed 103.66 hect & under head waste dumping is proposed 17.96 hect. whereas in submitted annual retrun for the year 2022-23, the area put to use reported under mining is 111.334 hect. & under waste dumping is 20.050 hect, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.
9d	Scrutiny of Annual return on afforestation	4133 nos. of sapling within lease area.	Seems corrected.	However, under item5 of part-V, the total no. of trees at the end of year is not reported correctly. Apart from this some other discrepencies was also observed which were covered in show cause notice for Rule 45(7) of MCDR 2017(dated 14.12.2023) issued to the lessee.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported.	No mineral reject generated.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of Limestone = 224662.32 Ton	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price & production cost is Rs. 376.63 per tonne.	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 4460374	The information furnished found to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given.	Seems corrected.	Nil

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**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
MCDR17	Rule 11(1)	14-DEC-23	24-JAN-24	MCDR17	Rule 45(7)	14-DEC-23 24-JAN-24
MCDR17	Rule 45(7)(a)	14-DEC-23	24-JAN-24			

**Date :**

**(D R GURJAR)**

Indian Bureau of Mines