

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/BAR-396/SELENITE-13

**Mine code :** 29RAJ04017

- (i) Name of the Inspecting : **P022** ) **PANKAJ KULSHRESTHA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Deepak Kalla, QP, Shri Khowendra Jadhav, Mines M  
Official with  
Designation
- (iv) Date of Inspection : 17/10/2024
- (v) Prev.inspection date : 05/10/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THOB(2/98)**
- (b) **Registration NO.** : **IBM/418/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : BARMER
- Village : THOB
- Taluka : PACHPADRA
- Post office : Thob
- Pin Code : 344032
- FAX No. : 01591-230206
- E-mail : gotan@jkcement.com
- Phone : 01591-230201-03
- (f) Police Station : Pachpadra
- (g) First opening date : 13/03/2015
- (h) Weekly day of rest : SUN
2. Address for : M/s. J.K.White Cement works,  
correspondance Post Gotan Tehsil - Merrta  
Dist-Nagaur 342902 , Phone No: 01591-230206
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : GYPSUM Main

## 5. Name and Address of the

Lessee : J. K. CEMENT LIMITED  
Kamla Tower KANPUR URBAN  
UTTAR PRADESH  
Phone:  
FAX :

## Geologist

Name : Sushil Tak, Full Time  
Qualification : MSC Geology  
Appointment/ : 17/07/2018  
Termination date

## Manager

Name : K D Jhadhav  
Qualification : BE Mining  
Appointment/ : 20/02/2016  
Termination date

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 05/12/2018  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Reserves 359035 t Resources 20400 t	Reserves 359035 t Resources 20400 t	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status of geology and exploration may be considered as satisfactory.	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 309 - N 515 E008-E584	N 300 -N 950 E 008 - E 300	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1: 1.86	1: 2.90	Less excavation due to quality issue of material and water logging in mines.
2d	Quantity of topsoil generation in m3	119322 Cum.	1102.78 Cum.	Less excavation due to quality issue of material and water logging in mines.

2e	Quantity of overburden generation in m3	77381 Cum.	12307 Cum./ 14770 MT
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of development of pit may be considered as satisfactory.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed	One Pit	
3b	Quantity of ROM mineral production proposed	50000 MT	5080 MT	Less excavation due to quality issue of material and water logging in mines.
3c	Recovery of sailable/usable mineral from ROM production	15000 MT	2110 MT	Less excavation due to quality issue of material and water logging in mines.
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized mines and segregating by Rotatory Screen	Mechanized mines and segregating by Rotatory Screen in the area.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

3j	Provision of drilling and blasting in mineral benches	NA	No such provision.
3k	Provision of mining machineries in mineral benches	Yes	Yes, JCB deployed for the purpose.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, the bench height is suitable for method of mining.
3m	Total area covered under excavation/pits	11.93 ha hectares of the area proposed to be covered under excavations/pit.	0.5518 ha. of area covered under the excavation/pit.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.86	1:2.90
3o	Total area put in use under different heads at the end of year	Pit - 11.93 ha. Backfill - 9.83 ha Plantation - 1 ha.	Pit - 0.5518 ha. Backfill - 0.3791ha. Plantation - 0.001ha.
3p	Production of ROM mineral during the last five year period as applicable	Production of ROM mineral (T) during last five-year period proposed as under : 2019-20 : 50000 2020-21 : 46031 2021-22 : 47458 2022-23 : 49818 2023-24 : 50000	Production of ROM (T) mineral achieved during last five-year period proposed as under : 2019-20 : 0 2020-21 : 0 2021-22 : 450 2022-23 : 200 2023-24 : 5080
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of method mining may be considered as satisfactory.

---

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside of lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal	Not applicable	
4e	Number of active and alive dumps.	No such proposal	Not applicable	
4f	Number of dead dumps.	NA	No dead dump in the lease area.	
4g	Number of dumps established.	No such proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	No such proposal	Not applicable	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	NA	No waste dump management required, therefore may be considered as satisfactory.	

## 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.	2023-24 full extraction before backfilling	Yes, mineral fully extracted before backfilling.	

5b	Area under backfilling of mined out area	BF Area -9.83 ha.	BF Area - 0.3791ha.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	119322 Cum.	1103.78 Cum.	
5d	Total area fully reclaimed and rehabilitated	1 ha.	0.001 ha.	Less excavation due to quality issue of material and water logging in mines.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The overall status of backfilling and reclamation may be considered as 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) .	Nil	Nil	
6c	afforestation done (ha).	1.0 ha.	Nil	
6d	No. of saplings planted during the year	1000 Nos.	50 Nos.	
6e	Cumulative no .of plants	7700 Nos.	2960 Nos.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA	Nil	

---

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	11.93 ha.	0.172 ha.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	9.83 ha.	0.3791 ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.0 ha	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	Not applicable



6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	May be considered as satisfactory.

---

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatch target not given in proposal	2107.48 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	THE present status of mineral conservation may be considered as satisfactory.	

---

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	119322 cum. during the year 2023-24	1103.78 cum. during the yea r2023-24	Less excavation due to quality issue of material and water logging in mines.

8b	Concurrent use or storage of topsoil	Simultaneously utilized on backfilling.	Simultaneously utilized on backfilling.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden in backfilling.	Overburden utilised in backfilling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Continuous reclaimed (Backfilling) the land affected by mining activity.	Continuous reclaimed through backfilling the land affected by mining activity.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation 1000 nos. on backfilled area.	Nil
8g	Survival rate	Not specified	20%(WML) and 50%(OML)
8h	Water sprinkling on roads to control airborne dust	Water Spraying on mines road	Water Spraying on mines road as and when required.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status on aesthetic beauty in and around mines area may be considered as satisfactory.

---

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes,	Yes, as per rule	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Khowendra D Jadhav Geologist: Sushil Tak M.Sc.(Geo),	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 2.348 ha. Pit- 2.65 ha. Mineral Stack- 0.86 Infra. - 0.12 Green Belt- 0.91 Backfilling- 2.175	Mineral Stack-0.86 Infra. - 0.12 Green Belt- 0.91 Backfilling- 2.42
9d	Scrutiny of Annual return on afforestation	Nil plantation during the year within ML area during the year 2023-24.	No plantation done in the area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Openings stock 94.28 T, Production 5080 T closing stock 3066.8 T	As above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price reported as Rs. 1583	Ex mine price reported as Rs. 1583 seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets at the beginning of the year reported as Rs.1830000 with Net closing balance/Estimated market value as Rs. 1820000.	Seems to be correct.
9k	Scrutiny of Annual return on mining machineries	OTHER HEM MACHINERY (0.300 cum) -1 and TRUCK (12.500T) -1	As above.

---

**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 :**

**(PANKAJ KULSHRESTHA)**

Indian Bureau of Mines