

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : K. D. Jadhav, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 05-OCT-19
- (v) Prev.inspection date : 25-OCT-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THOB(2/98)**
- (b) **Registration NO.** : **IBM/800/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : BARMER
Village : THOB
Taluka : PACHPADRA
Post office :
Pin Code :
FAX No. : 01591-230206
E-mail : gotan@jkcement.com
Phone : 01591-230201-03
- (f) Police Station : Pachpadra
- (g) First opening date : 13-MAR-15
- (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 WHITE CEMENT WORKS
J.K SYNTHETIC LTD. PO.
GOTEN DISTT. NAGPUR-342902
NAGPUR RAJASTHAN
Phone: (01591)30201,30205
FAX : (01519)30206, (0291)433071

Geologist

Name : Sushil Tak, Full Time
Qualification : MSC Geology
Appointment/ : 17-JUL-18
Termination date

Manager

Name : K D Jhadhav
Qualification : BE Mining
Appointment/ : 20-FEB-16
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 05-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2015-16 exploration was proposed by 8 trial pits having size 3m X 3m X 3m	During the year 2018-19 total 8 exploratory trial pits dug having size 3m X 3m X 3m.	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2015-16 exploration was proposed by 8 trial pits having size 3m X 3m X 3m for G1 level.	During the year 2018-19 total 8 exploratory trial pits dug having size 3m X 3m X 3m for G1 level.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified in the approved mining plan.	Total expenditure in exploratory pits Rs 0.16 lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Up to year 2018-19 Area under G1=74.6901 hect,G2=10.94 93 hect., Proposal are given for the year 2019-20 to upgrdae G2 level to G1 level by way of 5 trail pits(3mX3mX3m).	Mining operation are temporary discontinue w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019., hence exploration as proposed during the year 2019-20 has not been carried out so far.	Nil
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2019 359685 tonnes.	Balance reserves as on 01.04.2019 359685 tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2018-19: Northing grid 2885400 M to 2885934 M and Easting grid 241000 M to 241334 M	Nil	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh Environment Clearances.TOR has been issued on 07.03.2019.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposal given.	No mine development work has been carried out.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
2c	Stripping ratio or ore to OB ratio	1:0.5328	Nil	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
2d	Quantity of topsoil generation in m3	47152 M3	Nil	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
2e	Quantity of overburden generation in m3	30649 M3	Nil	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During the year 2018-19, No mine development activities has been carried out.Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	Nil	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3b	Quantity of ROM mineral production proposed	19804 T	No ROM production has been carried out, only 706.75 tonnes mineral was dispatched to captive cement plant from existing opening stock at mine head.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3c	Recovery of sailable/usable mineral from ROM production	It was propsted that 30% of ROM will be used in white cement plat after screening. Remaining will be stacked as screen reject and will be used in grey cement plant in future.	No production has been carried out during the year 2018-19.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3d	Quantity of mineral reject generation	70% of ROM mineral production as screen reject.	No screen reject was generated.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3e	Grade of mineral rejects generation and threshold value declared.	30-35% CasSo4.2H2o below the thershold value.	No mineral reject generated during the year 2018-19.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3f	Quantity of sub grade mineral generation.	No subgrade proposal	Not applicabile	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicabile	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Screeing was proposed.	Nil	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	No provision of drilling and blasting	None	Nil
3k	Provision of mining machineries in mineral benches	Yes JCB & Dumper	No mine development work & production has been carried out during the year 2018-19.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil
3m	Total area covered under excavation/pits	During the year 2018-19 mining was proposed over an area 4.72 hect.	During the year 2018-19 no fresh area has been broken. Earlier mining has been carried out over an area 1.66 hect. area	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.5328	Nil	
3o	Total area put in use under different heads at the end of year	Yearwise specific proposal has not been given however at the end of mining plan period i.e. 31.03.2020 total 24.1075 hect. area will be utilised under different heads including plantation.	At the end of year 2018-19 total area utilised under different heads are: 2.741 Ha.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2015-2016: 29610T 2016-2017: 22451T 2017-2018: 24013 T 2018-19: 19804 T	2015-2016: 300T 2016-2017: 8575T 2017-2018: 150T 2018-19: 0 T
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3q	General remarks of inspecting officers on method of mining etc.	Method of mining is suitable to the type of deposit.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	During the year no proposal of dumping of top soil & OB. Top soil and OB will simultaneously use for backfilling. separate dumping of screen rejects as mineral raject was proposed.	During the year 2018-19, no OB, topsoil & screen reject generated.	Mining operation are temporary discontinued w.e.f. 01.01.2019 due to fresh EC.TOR has been issued on 07.03.2019.
4b	Location of topsoil, OB and mineral reject dumps	Top soil and OB will simultaneously use for backfilling. Mineral reject dumping location: 241000E to 241200E & 2885600N & 2885800N	No dumping has been carried out as no mine development has been carried out during the year 2018-19.	Nil
4c	Number of dumps within lease area and outside of lease area	Temporary screen reject dump was proposed within lease area.	Nil	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary stacking of Screen reject dumps within UPL.	Nil	Nil
4e	Number of active and alive dumps.	One screen reject dump.	Nil	Nil
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal was given	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal was given	Nil	Nil
4j	Number of settling ponds	No proposal was given	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No waste dump exist hence no waste dump management required.

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.	Yes after full extraction of salenite mineral backfilling was proposed.	During the year 2018-19 no mine development work has been carried out.	Nil
5b	Area under backfilling of mined out area	During the year 2018-19 total 4.72 hect excavated area will be backfilled.	None	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes it is proposed that top soil will be used for backfilling for rehabilitation of mined out area.	None during the last year.	Nil
5d	Total area fully reclaimed and rehabilitated	At the end of year 2018-19 total 1.66 hect. area reclaimed by backfilling and plantation.	At the end of year 2018-19 total 1.66 hect. area reclaimed by backfilling and plantation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			During the last few years mining has been carried out on very small scale hence backfilling and reclamation is also on small scale.

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).	PMCP report shall be submitted up to 1 July 2019.	PMCP report for the year 2018-19 has been submitted.	
6b	Area available for rehabilitation (ha) .	1 hect.	Nil	Nil
6c	afforestation done (ha).	1 hect.	0.03 hect.	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.

6d	No. of saplings planted during the year	1000 nos.	110 nos.	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
6e	Cumulative no. of plants	Not specified.	Not reported, however plantation has not been carried out as per proposal.	Nil
6f	Any other method of rehabilitation	Not specified	None	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs. 47,200	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	4.71 hect area.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.71 hect area	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	During the year 2018-19 no such proposal given.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal given	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1 Hect	0.03 hect.	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 hect.	Nil	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes monitoring is being proposed.	Monitoring is being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2018-19 It was proposed that after screening ROM mineral, usable selenite mineral for white cement plant shall be dispatched.	Screening unit has not been installed so far. No production has been carried out during the year 2018-19 only 706.75 tonnes mineral was dispatched to captive white cement plant from existing opening stock at mine head.	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	By screening	None	Nil
7c	Different grade of mineral sorted out at mines.	Salenite >6mm size after screening for captive white cement plant & screen reject <6mm size may be used in grey cement plant in future.	Nil	Nil
7d	Any beneficiation process at mines .	No such proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	During the year 2018-19 no mine development work has bene carried out.	
8b	Concurrent use or storage of topsoil	Spread over backfilled area.	None	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given for screen reject (<6mm size)	No screening plant has been installed so far.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB will be used for backfilling for restoring the land to its original use.	None duing the last year as no mine development has been carried out.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	By backfilling through OB.	No backfilling has been carried out during the last year.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the last year 2018-19 plantation(100 Onos.) was proposed over 1 hect area.	110 nos. plants was planted onver an area 0.03 hect. area.	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
8g	Survival rate	No such proposal given	Very less approximately 33% wthin lease area.	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Is being carried out.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to Sept. 2019. Annual return submitted for the year 2018-19.	timely submission.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Detail given Mining Engineer & Manager: Sh. Khowendra D Jadhav Geologist: Sh. Sushil Tak	Found ok	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Detail given Pit : 1.66 Ha Backfilled :1.66 Ha Plant, building,Roads etc: 1.0809 Ha	Found ok	Nil
9d	Scrutiny of Annual return on afforestation	Detail given	110 nos. within lease area & 60 outside of lease area	Plantation has not been carried out as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued to the lessee.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail given No mineral reject generated.	Found ok	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail given Closing stock: 24.28 tonnes	Found ok.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Detail given Cost of production=0	No Production has been carried out during the year 2018-19.	Nil
9h	Scrutiny of Annual return on fixed assets	Detail given Fixed assets:0	No capital infrastructures was observed on mine stite.	Nil
9k	Scrutiny of Annual return on mining machineries	Detail given	found ok	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
MCDR17	Rule 11(1)	15-OCT-19			

Date :

(D R GURJAR)

Indian Bureau of Mines