

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JHN-44/FE-15

Mine code : 30RAJ17010

- (i) Name of the Inspecting : **B019**) Baj V B
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SH. RAJ SINGH, MINES MANAGER
Official with
Designation
- (iv) Date of Inspection : 19-MAR-16
- (v) Prev.inspection date : 22-AUG-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KHAROTI DHANIYA**
- (b) **Registration NO.** : **IBM/5539/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JHUNJHUNU
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : 01574-230128, 9829214974
- (f) Police Station : CHALA
- (g) First opening date : 16-DEC-04
- (h) Weekly day of rest : SUN
2. Address for : SH CHHAGAN MODI, CHHAWANI
correspondance : NEEM KA THANA, DIST- SIKAR
3. (a) Lease Number : RAJ2258
(b) Lease area : 5
(c) Period of lease : 50
(d) Date of Expiry : 17-DEC-54
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SHIKHA MODI
 W/O SHRI CHAGAN LAL MODI
 CHHAWANI, NEEM KA THANA
 SIKAR RAJASTHAN
 Phone:01574-230128, 9829214974, 9829017542
 FAX :

Owner : SHIKHA MODI
 NEEM KA THANA DIST-SIKAR
 JHUNJHUNU RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : RAJ SINGH, Full Time
 Qualification : B.E (Mining)
 Appointment/ : 21-APR-15
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-APR-04
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	02-MAY-05
	:	Mining Scheme rule 12 MCDR1988	15-MAR-12
	:	MP modif under MCR 1960	14-SEP-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Pitting/trenching etc. proposed.	Two exploratory pits were made.	Nil
1b	Exploration over lease area for geological axis 1 or 2	Pitting/trenching etc. proposed.	Except pitting no further exploration over lease area for geological axis 1 carried out in year 2015-16.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration proposed to be carried out by the lessee.	Except pitting no further exploration over lease area.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such specific yearwise area is proposed.	As per approved mining plan about 2 hect. area to be explored to bring Geological axis in 1 or 2.	Nil
1e	Balance reserve as on 01/04/20	Reserve as on 01/01/2016 = 111 --87750 tonne, 121--42705 tonnes, 333 & 334 --62478 tonne	The balance reserve as on 01/04/2016 = 111 --83420 tonne, 121--42705 tonnes, 333 & 334 --62478 tonne	Nil
1f	General remarks of inspecting officers on geology, exploration etc	---	---	The exploration by systematic and scientifically is yet to be conducted by the lessee.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The proposed development is in pit no. 2	The excavation is carried out in pit no. 2.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	The separate benches in OB and mineral is proposed.	The separate benches in OB and mineral have been made.	
2c	Stripping ratio or ore to OB ratio	Striping ratio of ore to OB ratio proposed 1: 5 for the year 2015-16	The striping ratio of ore to OB ratio is 1: 4 for the year 2015-16	The development and production is less due to mine is not working for need of pollution clearance.

2d	Quantity of topsoil generation in m3	There is no proposal in approved mining plan for generation of top soil during 2015-16	Nil	The site proposed for working is devoid of top soil.
2e	Quantity of overburden generation in m3	About 8250 tonnes for the year 2014-15.	About 11000 tonnes	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development of separate benches for OB and mineral iron ore is proposed.	The OB benches should be kept sufficiently advanced.	The OB benches should be kept sufficiently advanced.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	The pit no.2 is proposed for production.	Working in the pit no. 2 .	Nil
3b	Quantity of ROM mineral production proposed	The quantity of ROM is proposed 12350 tonne.	The quantity of ROM produced is 4330 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	The recovery of sailble mineral proposed is 90%.	The recovery of sailble mineral proposed is 90%.	Nil
3d	Quantity of mineral reject generation	There is no proposal in approved mining plan.	About 4500 tonne minral reject generated during the year.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 -30%	SiO2 -30%	Nil.
3f	Quantity of sub grade mineral generation.	There no proposal for sub grade mineral generation.	Not applicable.	Nil
3g	Grade of sub grade mineral generation	Not specified.	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed.	Mechanised method.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal except sreening.	Sreening is being carried out.	Nil
3j	Provision of drilling and blasting in mineral benches	Provision of jack hammer drilling and blasting is made in approved mining plan.	Drilling and blasting is done as proposed.	Nil
3k	Provision of mining machineries in mineral benches	Yes	Excavator and dumper are being used.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of benches in OB and mineral is suitable for method of mining.	The height of benches in OB and mineral is suitable for method of mining.	Nil
3m	Total area covered under excavation/pits	As per approved mining plan 1.4 hect. proposed under excavation/pit s.	1.38 hect area covered.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	Ore to OB ratio proposed 1: 0.02	Ore to OB ratio 1:0.03	
3o	Total area put in use under different heads at the end of year	Total area put to use is proposed 1.71 Hect.	About 1.69 Hect. is put in use.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	Year 2011-12 - 3700 T, Year 2012-13 - 5350T, Year 2013-14 - 6600T, Year 2014-15 - 8910 T, Year 2015- 16-12350T	Year 2011-12 - Nil, Year 2012-13 -14400T, Year 2013-14 - 14800T, Year 2014-15 - 9900 T, Year 2015-16-4330T	Mine was suspended and a cour case was filed for excess production against the lessee.

3q	General remarks of inspecting officers on method of mining etc.	No such proposal.	Method of mining is suitable for this type of deposit.	Method of mining is suitable for this 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)	The separate dumping of OB and mineral reject is proposed in mining plan.	Separate dumping of OB is carried out.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dumping o f OB is proposed in South East Part of the lease.	Dumping is being done in the proposed site.	Nil
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area.	One dump within the lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping o f OB is proposed in South East Part of the lease.	Dumping is being done in the proposed site.	Nil
4e	Number of active and alive dumps.	One.	One.	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil.
4g	Number of dumps established.	No such proposal	Not applicable.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain is not proposed along the dump.	Actually OB generated in mine is mainly quartzite. The lessee has taken permission fro State Govt. to make gitty by crushing and sell the same.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	The lenth of retaining wall/garland drain is not proposed.	Actually OB generated in mine is mainly quartzite. The lessee has taken permission fro State Govt. to make gitty by crushing and sell the same.	Nil
4j	Number of settling ponds	No such proposal.	Not applicable.	Nil

4k	Specific comments of inspecting officer on waste dump management	No such approved proposal.	Actually OB generated in mine is mainly quartzite. The lessee has taken permission from State Govt. to make gitty by crushing and sell the same.	Actually OB generated in mine is mainly quartzite. The lessee has taken permission from State Govt. to make gitty by crushing and sell the same.
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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.	No proposal in approved mining plan	Not applicable.	Nil
5b	Area under backfilling of mined out area	No such proposal in approved mining plan.	Not applicable.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal in mining plan.	Top soil is used for plantation.	
5d	Total area fully reclaimed and rehabilitated	No such proposal.	No area is fully reclaimed and rehabilitated.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal.	No part of the lease area is fully worked out. Hence no area is matured for backfilling.	Nil.

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).	Annual report on PMCP to be submitted.	Not submitted.	

6b	Area available for rehabilitation (ha) .	No such specific proposal.	0.5 Hect. area is to be covered under plantation.	Nil
6c	afforestation done (ha).	0.5 hect area is proposed for plantation.	0.1 hect area is to be coverd in each year.	Nil
6d	No. of saplings planted during the year	Pantation of 50 saplings per year is proposed.	40 saplings have been planted.	Nil.
6e	Cumulative no .of plants	No such proposal	The lease area is rocky about 200 plants.	Nil
6f	Any other method of rehabilitation	No such proposal.	The area is rocky. Except plantation there is no other method of rehabilitation.	
6g	Cost incurred on watch and care during the year	No such proposal.	About Rs. 2000/- during the year.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in approved mining plan.	Except plantation no other method of rehabilitation observed.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in mining plan.	There is no backfilled area.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such specific proposal.	There is no backfilled area.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No specific proposal.	Nil	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such specific prop[osal].	Nil	Nil.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	About 0.5 hect area is proposed for plantaion.	0.1 hect area per year to be coverd for plantation.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such specific proposal .	Not applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	About 0.5 hect area is proposed for plantation.	Saplings have been palnted in about 0.1 hect area .	Nil.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yearly monitoring of Water, noise and air is proposed.	Yearly monitoring of Water, noise and air is being carried out.	Nil.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No such proposal.	The lease area is on hillock. Plantation has been carried out.	The mining operation ia carried out on samall scale. There is no serious problem of environment in the mine.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The mineral iron ore 10287 T despatch.	The mineral iron ore 10287 T despatched from the mine to the consuming foundry and pipe industries.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Screening and manual hand sorting.	Screening and manual hand sorting.	Nil

7c	Different grade of mineral sorted out at mines.	The material having more than 45% Fe ₂ O ₃ sorted out for despatch.	The material having more than 45% Fe ₂ O ₃ sorted out for despatch.	Nil.
7d	Any beneficiation process at mines	Screening is proposed.	Screening is being carried out.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal.	The work done for mineral conservation is satisfactory.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil to be removed separately.	The topsoil is very less. Whatever topsoil generated is used for plantation.	Nil
8b	Concurrent use or storage of topsoil	Top soil removed to be used for plantation.	Top soil used concurrently for plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump For OB and waste is proposed.	OB and waste sump separately. It is used for making gitty. The permission has already been granted by State Govt.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It is used for making gitty. The permission has already been granted by State Govt.	It is used for making gitty. The permission has already been granted by State Govt.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation is proposed for stabilization of land affected by mining operation.	Plantation is being done for stabilization of land affected by mining operation.	Nil.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 50 saplings for the year 2015-16	About 40 local growing saplings have planted.	Nil.
8g	Survival rate	40% survival rate.	34-40% survival rate.	Nil.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road is proposed.	Water sprinkling on haul road is being done..	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such proposal.	Aesthetic beauty in and around mines good except land degradation by mining.	Nil.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The annual on return submitted or the year 2015-16. The monthly return submitted to the month Feb, 2016.	The information fond in order.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	A full time mining engineer and geologist has been appointed.	A full time mining engineer and geologist has been appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details on land use pattern have been filled.	Found in order.	Nil
9d	Scrutiny of Annual return on afforestation	The details furnished.	Plantation and vegetation exist in the lease area.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The required information given.	found in order.	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Rthe required information filled.	Mineral productin despatched.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The required information filled.	Satisfactory.	Nil
9h	Scrutiny of Annual return on fixed assets	The required informaion filled.	Satisfactory	Nil
9k	Scrutiny of Annual return on mining machineries	The required information filled.	Information on mining machineries have been furnished.	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 :

(Baj V B)

Indian Bureau of Mines