

I/26997/2024

**MCDR INSPECTION REPORT**

**Ajmer regional office**

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

**Mine code :** 30RAJ17010

- (i) Name of the Inspecting : 1( ) A K JATOLIA  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Raj Singh, Mine Engineer  
Official with  
Designation
- (iv) Date of Inspection : 08/01/2024
- (v) Prev.inspection date : 24/02/2023

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : KHAROTI DHANIYA
- (b) **Registration NO.** : IBM/5539/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : JHUNJHUNU
- Village : Kharoti Dhaniya
- Taluka : Udaipurwati
- Post office : Udaipurwati
- Pin Code : 333307
- FAX No. : NA
- E-mail : chhaganlalmodi@gmailcom
- Phone : 01574-230128, 9829214974
- (f) **Police Station** : CHALA
- (g) **First opening date** : 16/12/2004
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SH CHHAGAN MODI, CHHAWANI  
NEEM KA THANA, DIST- SIKAR
3. (a) **Lease Number** : RAJ2258
- (b) **Lease area** : 5
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 17/12/2054
4. **Mineral worked** : IRON ORE Main

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## 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/ : 21/04/2015  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26/04/2004
Plan/Scheme of Mining		Modif.of approved Mining Plan	02/05/2005
		Mining Scheme rule 12 MCDR1988	15/03/2012
		MP modif under MCR 1960	14/09/2015
		MP review under 17(1) MCR 2016	17/09/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	07 Boreholes were proposed during the year 2021-22	07 Boreholes were carried during the year 2022-23	Nil
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal during the year 2022-23.	Not Applicable.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not Applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable.	Nil
1e	Balance reserve as on 01/04/20	As per approved document dated 17.09.2020, the position of total Reserve and Resources as on 31.03.2020 were on 0.186 and 0.159 million tonnes respectively.	The position of total Reserve and Resources as on 31.03.2023 were on 0.160 and 0.159 million tonnes respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No exploration proposal during the reporting year 2022-23	Not applicable.	The position of total Reserve and Resources as on 31.03.2023 were on 0.160 and 0.159 million tonnes respectively.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The proposal of mine development was given in Pit along the boundary Pillar A'D'.	Mine development has been carried out in Pit.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB & Mineral was proposed.	The separate benches in OB & mineral have been made.	Nil
2c	Stripping ratio or ore to OB ratio	1:3.79 (Cum / cum).	1:32.15 (Cum / cum).	Ore to Overburden ratio (stripping ratio) was achieved 1:32.15 (Cum / cum) against the proposed ratio of 1:3.79 (Cum / cum).Hence, Violation under rule11(1) was issued to lessee on 09.02.2024.
2d	Quantity of topsoil generation in m3	No top soil was proposed during the year 2022-23	No top soil was generated during the year 2022-23	Nil
2e	Quantity of overburden generation in m3	15040 Cum waste generation was proposed during the year 2022-23	Waste was generated as per proposal during the year 2022-23	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Ore to Overburden ratio (stripping ratio) was achieved 1:32.15 (Cum / cum) against the proposed ratio of 1:3.79 (Cum / cum).Hence, Violation under rule11(1) was issued to lessee on 09.02.2024.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01(Pit no. 2)	01(Pit no. 2)	Nil

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3b	Quantity of ROM mineral production proposed	2022-23: 12347 Tonnes,	2022-23: 1450 Tonnes,	1450 tonnes and 150 tonnes quantity of ROM have been produced during the year 2022-23 and 2023-24 (upto December 2023) against the proposal of 12347 tonnes and 12347 tonnes quantity of ROM respectively which is 11.74 % and 1.21% of the proposals which may effect the pit profile in subsequent year also. Hence, violation under rule 11(1) issued to lessee on 09.02.2024.
3c	Recovery of sailable/usable mineral from ROM production	90%	As per proposal	Nil
3d	Quantity of mineral reject generation	407 Cum mineral reject generation as per proposal.	No mineral reject was generated.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable.	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	Mechanised	Mechanised	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable.	Nil

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3j	Provision of drilling and blasting in mineral benches	Provision of jack hammer drilling & blasting.	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator & dumpers	As per proposal	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 & mineral is suitable for method of mining.	The height of benches in OB & mineral is suitable for method of mining.	Nil
3m	Total area covered under excavation/pits	2.2 Ha area covered under mining was proposed upto the year 2024-25	1.98 Ha area covered under mining upto the year 2022-23	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:3.79 (Cum / cum).	1:32.15 (Cum / cum)	Ore to Overburden ratio (stripping ratio) was achieved 1:32.15 (Cum / cum) against the proposed ratio of 1:3.79 (Cum / cum). Hence, Violation was issued under rule 11(1) of MCDR 2017.
3o	Total area put in use under different heads at the end of year	3.1Ha.	3.01 Ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : 12480 Tonnes, 2019-20 : 12415 Tonnes, 2020-21: 12120 Tonnes, 2021-22 :12271 Tonnes, 2022-23 :12347 Tonnes	2018-19 : 0 Tonnes, 2019-20 : 50 Tonnes, 2020-21: 11232 Tonnes, 2021-22 :11045 Tonnes, 2022-23 : 1450 Tonnes	Nil

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3q	General remarks of inspecting officers on method of mining etc.	Ore to Overburden ratio (stripping ratio) was achieved 1:32.15 (Cum / cum) against the proposed ratio of 1:3.79 (Cum / cum). Hence, Violation was issued under rule 11(1) of MCDR 2017.
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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)	No proposal of top soil generation. Only OB & mineral reject proposal given	As per proposal.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposal of Location of OB Dump (N568865, E3066650), (N568916, E3066690)	Actual Dumping Location (N568578, E3066777), (N568598, E3066825)	It has been observed that waste dump has not been carried out on proposed location. Hence, violation letter under rule 11(1) has been issued.
4c	Number of dumps within lease area and outside of lease area	01	01	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NA	Nil
4e	Number of active and alive dumps.	01	01	Nil
4f	Number of dead dumps.	No proposal	NA	Nil
4g	Number of dumps established.	Not applicable as no proposal.	Not applicable.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	110 m Garland drain along waste dump and proposed working has been proposed.	As per proposal.	Nil

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4i	Length of Retaining wall or garland drain all along dumps	110 m Garland drain along waste dump and proposed working has been proposed.	It has been made as per proposal.	Nil
4j	Number of settling ponds	No proposal.	None	Nil
4k	Specific comments of inspecting officer on waste dump management			It has been observed that waste dump has not been carried out on proposed location.Hence, violation letter under rule 11(1) has been issued.

#### 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.	After full extraction of mineral.	As per proposal.	Nil
5b	Area under backfilling of mined out area	No proposal	Not applicable	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation was proposed.	None.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal given for backfilling and reclamation.

#### Progressive Mine Clousre Plan:

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).	Annual report on PMCP shall be submitted before 1 July.	Submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha).	50 plants in area of 0.02 Ha. was proposed	As per proposal.	Nil
6d	No. of saplings planted during the year	50Nos	50Nos	Nil
6e	Cumulative no .of plants	No specific proposal given.	142 nos	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs 2500 for plantation expenses.	Not reported	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.15 Ha area proposed	As per proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	None	Nil

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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	50 nos plantation was proposed over 0.02 ha area.	As per proposal	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 specific proposal	Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Monitoring is being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Afforestation has been done during reporting year.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatched after screening.	As per proposal.	Nil

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Screening & manual hand sorting.	Screening & manual hand sorting.	Nil
7c	Different grade of mineral sorted out at mines.	The mineral more than 45% Fe content sorted out.	The mineral more than 45% Fe content sorted out.	Nil
7d	Any beneficiation process at mines .	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was 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)	No top soil generation proposal during the year 2022-23.	No top soil generated.	Nil
8b	Concurrent use or storage of topsoil	No top soil generation proposal hence not applicable.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate waste dumping and Mineral Reject proposed.	As per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	None	Nil

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2022-23 total 50 nos. sapling proposed.	50 sapling planted during the year 2022-23.	Nil
8g	Survival rate	Not specified	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is satisfactory in and around mines area.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submitted Monthly and Annual return in prescribed format.	Monthly return and Annual Return for the year 2022-23 have been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	Found to be correct.	Nil

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings- 1.98Ha., Used for waste disposal- 0.30Ha., Occupied by plant, buildings, residential, welfare buildings and roads-0.4, Used for any other purpose- 0.33 Ha.	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	Details given	Seems to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	15.0 tonnes mineral reject has been reported	Details found to be incorrect.	In Item 3 of Part-V: As per reported average grade of the Mineral Reject generated is below the threshold value so it will be considered under waste not in mineral reject.Hecne SCN under rule 45(7) has been issued.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Gradewise Closing Stock- 12573.53 tonnes	Details found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- 1619.8 Rs/tonnes, Ex-mineprice- 1362.23 Rs/tonnes, Cost of production- 2306.17 Rs./tonnes	appears to be incorrect.	In Item3 (ii) of Part-VI: Reported Ex-mine price is less than reported cost of production and sale value.Hecne SCN under rule 45(7) has been issued.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs-280714	Found to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Seems to be correct.	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)	09/02/2024			
MCDR17	Rule 45(7)(a)	09/02/2024			
MCDR17	Rule 11(1)	09/02/2024			
MCDR17	Rule 45(7)(a)	09/02/2024			

**Date :****(A K JATOLIA)**

Indian Bureau of Mines