

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/JPR-185/FE-16

**Mine code :** 30RAJ13016

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Manoj Kedia, Lessee and Sri Raghvendera Singh, Mi  
Official with  
Designation
- (iv) Date of Inspection : 04-FEB-22
- (v) Prev.inspection date : 18-JAN-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **LUKHANA**
- (b) **Registration NO.** : **IBM/16578/2013**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : JAIPUR  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 01413024821  
E-mail : kediaminerals@rediffmail.co  
Phone : 9414072192
- (f) Police Station : Virat Nagar
- (g) First opening date : 01-SEP-13
- (h) Weekly day of rest : SUN
2. Address for : F-109 Venkateshwar Tower Central spine,  
correspondance Jaipur-302023  
Rajasthan
3. (a) Lease Number : RAJ4463
- (b) Lease area : 4.46
- (c) Period of lease : 50
- (d) Date of Expiry : 23-SEP-62
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : SH. MANOJ KEDIA  
 109, Venketeswer tawor,  
 Central spain, Vidhyanagar  
 JAIPUR RAJASTHAN  
 Phone:  
 FAX :

Owner : SH. MANOJ KEDIA  
 109, Venketeswer tawor,  
 Central spain, Vidhyanagar  
 JAIPUR RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : Ragwandra Singh, Full Time  
 Qualification :  
 Appointment/ : 01-FEB-22  
 Termination date

## Geologist

Name : Sri Manish Kumar, Full Time  
 Qualification : M.Sc. Geology.  
 Appointment/ : 10-FEB-22  
 Termination date

## Geologist

Name : R.K. Pathak, Full Time  
 Qualification : M.Sc. Geology  
 Appointment/ : 09-FEB-22  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 11-MAY-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No specific year wise proposal of exploration.	Not applicable as no proposal.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No specific year wise proposal of exploration. However, a total of three BHs have been proposed during the plan period i.e. from 2017-18 to 2021-22.	No exploratory drilling during the plan period.	Violation of rule 11(1) of MCDR, 2017 issued for short fall in exploratory drilling vide letter dated 22/02/2022.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of Exploration Agency & expenditure.	No exploratory work carried out during the RY (2020-21).	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal in this regard.	Not applicable as no proposal.	NIL.
1e	Balance reserve as on 01/04/20	Reserve position was 343728 tonnes as per approved document dated 11/05/2017.	Reserve position was 343674.6 as on 01/04/2021.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	Exploration was proposed by three BHs during plan period from 2017-18 to 2021-22.	No exploratory work carried out during the RY (2020-21) as well as during plan period.	Violation of rule 11(1) of MCDR, 2017 issued for short fall in exploratory drilling vide letter dated 22/02/2022.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development has been proposed around S200 grid line.	Observed as per as per proposal.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil removal. Separate removal of waste and mineral.	No top soil generation. Separate removal of waste and mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.99 t/t	1:9.43 t/t (Actual stripping ratio as per waste generation figure furnished in draft RMP).	Violation of rule 11(1) of MCDR, 2017 issued for huge variation in Stripping ration vide letter dated 22/02/2022.
2d	Quantity of topsoil generation in m3	No proposal of top soil removal.	No top soil encountered during mining.	NIL.
2e	Quantity of overburden generation in m3	21376 tonnes.	500.00 tonnes.	Less generation of waste due to covid-19 pandemic and less demand.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method.	Development has been carried out as per proposed method.	Development method suitable for type of deposit.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one.	one.	Total two pits in the lease area.
3b	Quantity of ROM mineral production proposed	27005 tonnes.	53.413 tonnes.	Less production due to covid-19 pandemic and less demand.
3c	Recovery of sailable/usable mineral from ROM production	21604.00 tonnes.	53.413 tonnes.	Less production due to covid-19 pandemic and less demand.
3d	Quantity of mineral reject generation	No proposal of mineral rejects (MR) generation.	Mineral Reject has not been generated during RY.	NIL.

3e	Grade of mineral rejects generation and threshold value declared.	No proposal of mineral rejects (MR) generation.	Not applicable as no mineral reject generation.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	No sub-grade generation.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable as no sub-grade mineral generation.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting.	Manual sorting.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study.	No beneficiation study during RY.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling by Jack Hammer.	Only Shovel has been utilized for excavation purpose.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator and Dumper.	Excavator and Dumper.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 to 6 mts.	Not maintained as per proposal.	Violation of rule 11(1) of MCDR, 2017 issued for not maintaining height of benches as per proposal vide letter dated 22/02/2022.
3m	Total area covered under excavation/pits	1.1 hectare at the end of the plan period i.e. 2021-22.	0.91 hectare as on date of inspection.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.99 t/t	1:9.43 t/t (Actual stripping ratio as per waste generation figure furnished in draft RMP).	Violation of rule 11(1) of MCDR, 2017 issued for huge variation in Stripping ration vide letter dated 22/02/2022.

3o	Total area put in use under different heads at the end of year	1.71 hectare at the end of the plan period i.e. 2021-21.	1.29 hectare as on date of inspection.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 28800 2017-18: 24280 2018-19: 24336 2019-20: 24960 2020-21: 27005	2016-17: NIL. 2017-18: NIL. 2018-19: NIL. 2019-20: NIL. 2020-21: 53.413	Figures in tones.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining is being practiced.	Benches have not been maintained as per proposal. The open cast mechanized method has been adopted which is best suited 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)	No proposal of top soil and mineral reject generation. OB/IB proposed to dump separately.	No top soil and mineral reject generation. Waste generated has been dumped on earmarked area.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Near boundary pillar C.	As per proposal.	NIL.
4c	Number of dumps within lease area and outside of lease area	Five Dumps.	Four Dumps have been obsrevd along with backfilled area.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL proposed.	Outside UPL.	Old and Small dumps observed within UPL.
4e	Number of active and alive dumps.	four.	four.	No dump has been decaled as non-active.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Not applicable.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not applicable.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Waste dumping near boundary pillar C.	As per proposal.	No issue observed related to waste dumping.

#### 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 of backfilling during RY.	Backfilling in exhausted Pit-2 has been carried out.	NIL.
5b	Area under backfilling of mined out area	No proposal.	No backfilling during the RY.	A total of 0.25 hectare area has been backfilled as on date of inspection.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil removal.	No top soil encountered during mining.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	No area has been full reclaimed and rehabilitated.	NIL.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	No backfilling during the RY.	It is observed that an area of around 0.25 hectare has been backfilled of Pit-2 in the interest of early reclamation of mine out area after full extraction of mineral.
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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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	Report not submitted.	Violation of rule 26(2) of MCDR, 2017 issued for non-submission of PMCP report vide letter dated 22/02/2022.
6b	Area available for rehabilitation (ha) .	0.02 hecatre.	0.02 hecatre.	NIL.
6c	afforestation done (ha).	0.02 hecatre.	0.02 hecatre.	NIL.
6d	No. of saplings planted during the year	50 nos.	50 nos.	NIL.
6e	Cumulative no .of plants	No proposal.	Not applicable.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no proposal of any other method of rehabilitation	Not applicable.	NIL.
6g	Cost incurred on watch and care during the year	Not specified.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal.	Not applicable.	NIL.



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	No backfilling during RY.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal.	Not applicable.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No any other specific proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	50 nos of saplings.	50 nos of saplings.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.02 hect.	0.02 hect.	NIL.
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)	Provision for monitoring of environment parameter has been given.	Environment monitoring parameters are found to be within permissible limit.	NIL.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	A total of 0.02 hectare area has been proposed for plantation with 50 numbers of saplings.	A total of 0.02 hectare has been planted with 50 number of saplings.	PMCP compliance is satisfactory.
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of grade wise sorting.	No grade wise sorting due to low grade material.	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.	No proposal of grade wise sorting.	No grade wise sorting due to low grade material.	NIL.
7d	Any beneficiation process at mines	No proposal.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	No beneficiation.	Available Iron Ore is low grade.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil removal.	No top soil patch encountered during mining.	NIL.
8b	Concurrent use or storage of topsoil	No proposal of top soil generation during RY.	Not applicable as no top soil has been generated during RY.	NIL.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for OB/waste. No rejects and fines generation.	OB/waste has been dumped separately.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total 50 numbers during the RY.	Total 50 numbers during the RY.	NIL.
8g	Survival rate	No proposal.	60%	NIL.
8h	Water sprinkling on roads to control airborne dust	No specific proposal.	Not applicable.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	A total of 50 numbers of saplings proposed to plant during 2020-21.	A total of 50 numbers of saplings have been planted during 2020-21.	The general aesthetic beauty is satisfactory in and around mine 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, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted.	NIL.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Manager, Mining Engineer and geologist has been furnished.	Mining Engineer, Geologist and Manager has been appointed in the mine.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits=0.44 ha Dumps=0.3 ha Infrastructure : 0.1 ha.	Not matching with the approved document.	Violation of rule 45(7) of MCDR, 2017 issued.
9d	Scrutiny of Annual return on afforestation	Inside Lease: 50 and Outside Lease: NIL.	Inside Lease: 50 and Outside Lease: NIL.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation.	Mineral TReject has not been generated during RY.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 16323.138	Found in Order.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production: Rs. 404.39per tones.	Not furnished as per expenses furnished in AR.	Violation of rule 45(7) of MCDR, 2017 issued.
9h	Scrutiny of Annual return on fixed assets	Rs. 80759	Mostly Contractual work.	NIL.
9k	Scrutiny of Annual return on mining machineries	Shovel and Dumper.	Shovel and Dumper.	NIL.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	22-FEB-22			
MCDR17	Rule 26(2)	22-FEB-22			
MCDR17	Rule 45(7)(a)	22-FEB-22			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines