

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj Kedia, Lessee
Official with
Designation
- (iv) Date of Inspection : 17/12/2024
- (v) Prev.inspection date : 18/01/2018

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 : 24/09/2012
- (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 : 23/09/2062
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 :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 11/05/2017
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Geological mapping of 4.45575 hectares of lease area was proposed during the year 2022-23. Further it was also proposed to put 5 Core boreholes during the year 2022-23 with total meterage of 178 meters. No exploration proposed during the year 2023-24.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Total One hectares of area has already been considered under G1 whereas rest 3.4575 hectares of area has already been proved as Non-mineralized.	NA	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal during the year 2023-24.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	

1e	Balance reserve as on 01/04/20	Reserve of 84736 tonnes with Fe 49% under 111 category and 127322 tonnes resources as on 01/04/2023.	88,015 tonnes of reserves under category 111 available as on 01/04/2023.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The proposed working pit Pit No.-1 is located in the central part of the lease area.	As above.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil in the proposed area ,separate bench has been propsoed for overburden and mineral.	Being done	
2c	Stripping ratio or ore to OB ratio	0.195 proposed during the year 2023-24.	1.24 achieved during the year 2023-24.	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	20500 cu.m. of OB/IB proposed during the year 2023-24	2500 cu.m. generated during the year 2023-24.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	May be considered as satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	

3b	Quantity of ROM mineral production proposed	During the year 2023-24 it was proposed to produce 10400 tonnes of ROM.	8115 T produced during the year 2023-24.
3c	Recovery of sailable/usable mineral from ROM production	100% recovery	As above
3d	Quantity of mineral reject generation	Nil reject generation	Nil
3e	Grade of mineral rejects generation and threshold value declared.	(i)#Hematitic Ore - 45% Fe(Min.) (ii) ^Hematitic Siliceous Ore - 35% Fe(Min.) (iii) *Magnetite Ore-15% Fe (Min.)	Not applicable
3f	Quantity of sub grade mineral generation.	Nil	Not applicable
3g	Grade of sub grade mineral generation	None	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes	NA
3k	Provision of mining machineries in mineral benches	Yes	Yes ,Excavator cum loader deployed.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, max height of benches in overburden and mineral proposed as 5 meters.	Bench height not maintained at some places.
3m	Total area covered under excavation/pits	1.5 ha	Already exploited and abandoned by opencast (O-C) mining: 1.220, Covered under current (O-C) Workings : 0.02
3n	Ore to OB ratio for the pit/mine during the year.	1.08	As above
3o	Total area put in use under different heads at the end of year	NA	Already exploited and abandoned by opencast (O-C) mining: 1.22 H, Covered under current (O-C) Workings : 0.020 H, Reclaimed-rehabilitated: 0.25H, Used for waste disposal: 0.15 H, Occupied by plant, buildings, residential, welfare buildings and roads : 0.16 H, Used for any other purpose (specify) GREEN BELT : 0.40 H
3p	Production of ROM mineral during the last five year period as applicable	2019-20:24960 t 2020-21:27005 t 2021-22: 21550 2022-23: 8160t 2023-24 :8160t	2019-20: 0 2020-21:53.413 T 2021-22: 1552.132 T 2022-23: 4881 T 2023-24 : 8115 T
3q	General remarks of inspecting officers on method of mining etc.	NA	The Opencast method of mining is adopted & it is suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil	During the year total 2500 T of overburden generated.	

4b	Location of topsoil, OB and mineral reject dumps	Along the lease boundary BC	Being done
4c	Number of dumps within lease area and outside of lease area	Within lease area- 7, out side None	Within lease area- 7, out side None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL
4e	Number of active and alive dumps.	One	One active dump
4f	Number of dead dumps.	No proposal	Not applicable
4g	Number of dumps established.	None	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	10 Mtr	As above
4j	Number of settling ponds	No proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of waaste dump management 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.	Not applicable	Not applicable	
5b	Area under backfilling of mined out area	None	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	For plantation
5d	Total area fully reclaimed and rehabilitated	None	0.25 hectare of area reported as REclaimed - Rehabilitated in the AR 2023-24.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The presnt status 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	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	It was proposed to plant 50 saplings over an area of 0.5 hectare with 75% survival rate at N3039881-N3039909, E608387-E608396.	However as per AR 120 saplings planted during the year 2023-24 but no such plantation observed.	
6e	Cumulative no .of plants	NA	30 Nos. (WML and 63 Nos. (OML)	
6f	Any other method of rehabilitation	None	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 10000 estimated as expenditure during the year 2023-24.	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	It was proposed to plant saplings over 0.5 hectare of area.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	Not applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes ,as reported by lessee during the inspection.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status on PMCP compliance and progressive closure operations 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	10400 tonnes of ROM was proposed to be produced from mine.	Only 8115 tonnes of ROM produced during the year 2023-24 and 2,996.69 tonnes reported as dispatched from mine in AR .	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	NA	Lumps and Fines.	
7d	Any beneficiation process at mines .	Nil	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status on Mineral Conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil	As above	

8b	Concurrent use or storage of topsoil	Nil	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes separate dumping of Overburden/ interburden proposed	Yes , dumping separately.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant 50 saplings/year covering 0.5 hectares of area.	No such plantation observed in the area however the lessee reported plantation of 120 sapling within ML area during the year 2023-24. Total number of trees at the end of the year 2023-24 reported as 30(WML and 63 (OML)
8g	Survival rate	75% survival rate expected during the year 2023-24.	25 % (WML) and 38% (OML) survival rate reported in AR.
8h	Water sprinkling on roads to control airborne dust	Yes	As above.
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
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9a	Status of submission of Monthly and Annual returns	Yes	Yes, submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge : Shri Raghvendra Singh, Geologist in charge : Manish Kumar	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total Area Outside Forest : 4.455 H, Already exploited and abandoned by opencast (O-C) mining : 1.220H, Covered under current (O-C) Workings : 0.02H, Reclaimed-rehabilitated: 0.25H, Used for waste disposal: 0.15H, Occupied by roads etc.: 0.16 H, Under Green Belt: 0.40 H.	As above
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year : 120 Nos. (WML) and 166 (OML) with 25% and 38% survival rate respectively.	No such large scale plantation observed within the lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported.	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock : 199.16 T, production 8115 T and closing stock 199.16 reported.	As above

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price reported as Rs. 500 whereas cost of production reported as Rs. 332.29	Seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets at the begning of the year : Rs. 136686,Net closing balance Rs. 125577 and estimated market value reported as Rs.99977	The above mentioned information seems to be correct.
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 0.95 cum : - One and JEEP/TRACTOR 35 HP- One	As above.

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

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines