

I/28180/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JBP/MANG-15

Mine code : 40MPR18001

- (i) Name of the Inspecting : C004) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Haji Mohammed Farooq (Lessee), Sh. J. N. Patnayak (Min
Official with
Designation
- (iv) Date of Inspection : 31-JAN-24
- (v) Prev.inspection date : 27-FEB-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : JHANSI/SILUA (4.49HA)
- (b) Registration NO. :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JABALPUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : M/S KHATRI MINERALS AND MINING COMPANY
correspondance : 865, SOUTH MOTINALA,
HANUMANTAL, JABALPUR (M.P.) 482002
3. (a) Lease Number : MPR2191
- (b) Lease area : 4.49
- (c) Period of lease : 30
- (d) Date of Expiry : 17-MAY-37
4. Mineral worked : MANGANESE ORE Main
IRON ORE Associated
CLAY (OTHERS) Associated
OCHRE Associated
LATERITE Associated

I/28180/2024

5. Name and Address of the

Lessee : KHATRI MINERALS AND MINING COMPANY
865, SOUTH MOTINALA,
HANUMANTAL, JABALPUR (M.P.)
JABALPUR MADHYA PRADESH
Phone:NA
FAX :NA

Owner : KHATRI MINERALS AND MINING COMPANY
865, SOUTH MOTINALA,
HANUMANTAL, JABALPUR (M.P.)
JABALPUR MADHYA PRADESH
Phone: NA
FAX : NA

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	25-APR-07
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	24-OCT-11
	:	Mining Scheme rule 12 MCDR1988	17-OCT-12

I/28180/2024

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Sixteen bore holes	Nil	Violation pointed out for the same under rule 11(1) of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1: 4.49	Not done	Violation pointed out for the same under rule 12 of MCDR 2017.
1e	Balance reserve as on 01/04/20	Not specified	122- 130290 Tonnes (Iron ore) as on 31.03.23.	
1f	General remarks of inspecting officers on geology, exploration etc			Refer page 24 of the approved Mining Plan, it was proposed to drill 16 boreholes for the year 2022-23 but not carried out. Violation pointed out for the same under rule 11(1) of MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to carry during the year 2022-23 development & production was proposed towards north-west of quarry between the coordinates N2584525 - N2584575 & E406200- E406270.	But during the year, development & production was instead carried out on the southwestern part of the quarry.	Violation pointed out under rule 11(1) of MCDR 2017.

I/28180/2024

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.57	1: 0.44	The mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	7785	5769	The mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It was proposed to carry during the year 2022-23 development & production was proposed towards north-west of quarry between the coordinates N2584525 - N2584575 & E406200- E406270 instead carried out on the southwestern part of the quarry. Only 5769 m3 of OB is generated against the proposal of 7785 m3 for the year 2022-23. Violation pointed out for the same under rule 11(1) of MCDR 2017.

Exploitation:

I/28180/2024

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	13494	13000	
3c	Recovery of sailable/usable mineral from ROM production	46%	52%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
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.	proposed	Carried out.	
3j	Provision of drilling and blasting in mineral benches	Not proposed	Not done as per records	
3k	Provision of mining machineries in mineral benches	Yes	Open cast mining using HEMM machinery.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Excavations were found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillars nos. BP-25 to BP-22 & BP-17 to BP-12. wherein the bench ht was not maintained.	Violation pointed out under rule 11(1) of MCDR 2017.

I/28180/2024

3m	Total area covered under excavation/pits	1.84 ha	1.847 ha as per AR 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.57	1: 0.44
3o	Total area put in use under different heads at the end of year	3.0115 ha	2.804 ha as per AR 2022-23.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 20694 Tonnes 2019-20 19560 Tonnes 2020-21 20014 Tonnes 2021-22 20430 Tonnes 2022-23 13494 Tonnes	2018-19 20690 Tonnes 2019-20 16000 Tonnes 2020-21 6590 Tonnes 2021-22 15946 Tonnes 2022-23 13000 Tonnes
3q	General remarks of inspecting officers on method of mining etc.		Open cast mining using machinery is in practice, without use of explosive. Lessee is having one more lease area with common boundary, it's a working mine, beneficiation plant is established in the lease area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/28180/2024

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	OB dumps observed in the lease area.	Excavations were found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillars nos. BP-25 to BP-22 & BP-17 to BP-12. Further, dumping of overburden material found beyond mining lease near BP-17 to BP-18 & BP-19. Violation pointed out for the same under rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	Existing Waste dumps in southern & northern part are proposed extended laterally and w.r.t. height	Dumping of overburden material is also found beyond mining lease near BP-17 to BP-18 & BP-19	Violation pointed out under rule 11(1) of MCDR 2017.
4c	Number of dumps within lease area and outside of lease area	02	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dumps within UPL and within ML area.	Temporary dumps within UPL and within ML area.	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NIL	NIL	

I/28180/2024

4k	Specific comments of inspecting officer on waste dump management	Dumping of overburden material found beyond mining lease near BP-17 to BP-18 & BP-19 . Violation pointed out for the same under rule 11(1) of MCDR 2017.
----	------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------

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.	Full extraction of mineral was proposed from mined out area before starting backfilling	Area not matured for backfilling.	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	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).	Yes	Submitted via email but not annexed in Annual return.	Violation pointed out under rule 45(7) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.1 ha	0.05	

I/28180/2024

6d	No. of saplings planted during the year	25	25
6e	Cumulative no .of plants	Not specified	75 approx.
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil

I/28180/2024

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch after grade-wise sorting proposed.	ROM Mineral dispatch after grade-wise sorting adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and mechanical	Manual and mechanical	
7c	Different grade of mineral sorted out at mines.	Yes	Fines 45% to below 51% Fe.	
7d	Any beneficiation process at mines .	Yes	Carried out.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mining lease granted with condition to establish mineral based industry / beneficiation plant in Jabalpur dist. Beneficiation plant is established in southern part of the lease area. Screening, grinding and sorting facility are in built facility with beneficiation plant.

I/28180/2024

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump of OB proposed	Seperate dump of OB observed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Dumping adopted.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling will be done.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Details given in AR.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area needs improvement.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/28180/2024

9a	Status of submission of Monthly and Annual returns	Yes	AR and MR submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given.	Manager : None Mining Engineer in charge: J.N.PATNAIK Geologist in charge : Rohit Kanojiya	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	PART-1 S.No.12. The details wrt to Lease area (surface area) utilisation as at the end of year in respect of work done under progressive mine closure plan is not furnished.	Violation pointed out under rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	Trees planted- survival rate Description Within lease area Outside lease area i) Number of trees planted during the year 25 ii) Survival rate in percentage 80	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Fines (a) 45% to below 51% Fe: Opening stock at mine-head=8592.415 13000.000(Production) 10524.020(Despatches) 11068.395 (Closing stock at mine-head)	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price- 1336.30(45% to below 51% Fe) Cost of production- 994.40.	
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets* (Rs. 34207759)	

I/28180/2024

9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) DUMPER 16.000 TONNE 2 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast WATER TANKER 2000.000 LITRE 1 Non Electrical Opencast PUMPS (NON-ELEC.) 650.000 L/MN 1 Non Electrical Opencast
----	----------------------------------------------------------	-------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

I/28180/2024

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 :**(ROBERT SIMON C)**

Indian Bureau of Mines