

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/JBP/MANG-15

Mine code : 40MPR18001

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 27-FEB-20
- (v) Prev.inspection date : 20-DEC-18

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

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for geological axis 1 or 2	G2	YES	
1d	Balance area to be explored to bring Geological axis in 1 or 2	06 BORE HOLES.	Rs.45000,6 BH DONE	
1e	Balance reserve as on 01/04/20	RESERVES AND RESOURCES UNDER VARIOUS CATEGORIES. AS ON 01.04.2019	122- 86,000 222-83758 332-211341	
1f	General remarks of inspecting officers on geology, exploration etc			LOW GRADE IRON ORE,AND BLUE DUST IS MINED.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit A	Pit A	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	
2c	Stripping ratio or ore to OB ratio	.678 M3/T ,WASTE: ORE	0.67 m3/T,WASTE: ORE	
2d	Quantity of topsoil generation in m3	NA	NA	
2e	Quantity of overburden generation in m3	14046 m3	12000m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	MINE IS DEVELOPED IN BENCHES.THE ORE IS RECOVERED FROM MINED ORE.5 MTR BENCHES ARE FORMED.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	20694 T	20690	
3c	Recovery of sailable/usable mineral from ROM production	YES	YES	
3d	Quantity of mineral reject generation	NA	NA	
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 screening	Manual screening	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed to set up	Work in progress	

3j	Provision of drilling and blasting in mineral benches	NA	NA	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	1.96 Ha	1.96 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	0.67m ³ /T	0.678 M ³ /t	
3o	Total area put in use under different heads at the end of year	1.96-pit 1.26 D MINERAL STORE- 0.15	1.96 PIT,1.26 DUMP, MINERAL STORE .15	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 20610 2018-19 20694	2017-18 -20600 2018-19 20690	
3q	General remarks of inspecting officers on method of mining etc.			MINERAL IS RECOVERED FROM MINES MATERIAL BY SCREENING,PICKING ETC.BENCHES OF 5MTR HAVE BEEN FORMED.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	FOR OB ,MINOR MINERAL

4b	Location of topsoil, OB and mineral reject dumps	Between E-190-310,S-170-220	Between E-190-310,S-170-220	As per plan,OLD DUMP AT PROPERTY SOUTH
4c	Number of dumps within lease area and outside of lease area	01 waste dump	01 waste dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	At end of property	At end of property south	Drilling has not shown mineral
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	1	1	OLD DUMP
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	-	100MTR	1.5 MTR DEEP,1.5 MTR HIGH BUND
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			OLD DUMP EXISTS .MATERIAL FROM SAME WILL BE BACKFILLED.SIMELTANEOUS BACKFILLING PRACTISED.

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.	Yes	Yes	barrier

5b	Area under backfilling of mined out area	0.07HECT	0.08 HECT	IN BARRIER
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			BACKFILLING IN BARRIER ZONE IS DONE .

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).	Not submitted	Not submitted	VIOLATION ISSUED
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	10	10	
6e	Cumulative no .of plants	-	-	
6f	Any other method of rehabilitation	plantation	plantation	
6g	Cost incurred on watch and care during the year		10000	NO PROPOSAL FOR WORKED OUT BENCHES EXCEPT BACKFILLING IN BARRIER ZONE.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.92 Ha	Used for mining	PIT
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	700M2	800M2	BARRIER ZONE
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NOT PROPOSED	NOT DONE	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.009 Ha	0.009 Ha	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	10 trees	done	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	Environment monitoring done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			BARRIER BACKFILLING DONE.PLANTATATION ON BARRIER IS DONE.SIMETANEOUS BACKFILLING PLANNED.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines .	NIL	Only sieving	ONLY SCREENING ,SIEVING
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Proposal to set up beneficiation plant IN FUTURE.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	Partly in barrier
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes	provided
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Environment monitoring not done

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Annual returns not submittedAT TIME OF INSPECTION.	ANNUAL RETURN NOT GIVEN. VIOLATION GIVEN.

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 26(2)	08-MAY-20			
MCDR17	Rule 55(1) (1)	08-MAY-20			
MCDR17	Rule 35(1)	08-MAY-20			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines