

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

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JBP/IRON-22

Mine code : 30MPR18024

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with : Shri J.N.Patnaik, Mining Engineer
Designation
- (iv) Date of Inspection : 13-MAR-24
- (v) Prev.inspection date : 11-MAY-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JHANSI SILUA**
- (b) **Registration NO.** : **IBM/548/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JABALPUR
Village : SILUA & JHANSI
Taluka : SIHORA
Post office : SILUA
Pin Code : 483222
FAX No. :
E-mail:
khatriminerals@gmail.com
Phone :
9425860243
- (f) Police Station :
- (g) First opening date : 06-JUL-18
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
- (b) Lease area : 4.56 ha
- (c) Period of lease : 50
- (d) Date of Expiry : 08/01/2067
4. Mineral worked : IRON ORE Main

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
Plan/Scheme of Mining :

(MP) Period 2016-17 to 2020-21 03/05/2016

(RMP) period 2021-22 to 2025-26 24/06/2021

PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

EXPLORATION :

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	None	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	11 boreholes	Not done	Violation pointed out under Rule 11(1)
1c	Exploration Agency	Not proposed.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed.	Not applicable	
1e	Balance reserves	122-48400 tone	122- 49094one	
1f	General remarks of Inspecting officer on geology, exploration etc.	Refer page 34-35 of the approved Mining Plan, it was proposed to drill 11 boreholes for the year 2022-23 but not carried out. Violation pointed out under Rule 11(1)		

Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N 2584528 - N 2584592 E 406131 - E 406228	Deviation observed	Violation pointed out under Rule 11(1)
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	As per approved proposal	
2c	Stripping ratio or ore to OB ratio	1 :0.90	1:0.86	-
2d	Quantity of topsoil generation in m3	1:0.576	1:0.242	
2e	Quantity of overburden generation in m3	6345 m	2520 m3	Violation pointed out under Rule 11(1)

2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Only 2520 m3 of intercalated waste is reported against the proposal of 6345 m3 for the year 2022-23. Violation pointed out under Rule 11(1)
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Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	During last plan there were present which were proposed to be merged.
3b	Quantity of ROM production proposed (2022-23)	10998	10400	
3c	Recovery of Salable/usable mineral from ROM production	40%	As per approved proposal	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No mineral reject generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3g	Grade of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised method proposed	As per approved proposal	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	No sub-grade mineral generation
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	

3k	Provision of mining machineries in mineral benches	Rock drill nil Excavator: 01 no.1.0cum bucket capacity Transportation: Dumpers 02 nos. water tanker 01 no.	Rock drill nil Excavator: 01 no.1.2cum bucket capacity Transportation: Dumpers 03 nos. water tanker 01 no.	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	Yes	As per approved proposal.	
3m	Total area covered under excavation /pits	1.73 Hectare	1.2hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.576	1:0.242	
3o	Total area put in use under different heads at the end of year	3.3778 Hectare	About 3.0hect	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	14195	13000
		2020-21	18361	750
		2021-22	4368	4365
		2022-23	10998	10400
3q	General remarks of inspecting officer on method of mining etc	During the inspection, excavations were found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillars nos. BP-07 to BP-09 & BP-22 to BP-27. Further, dumping of overburden material found beyond mining lease near BP-24 to BP-25. Hence the development & excavation were lagging behind the approved proposals.		

Solid waste management-dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Not proposed	Dumping of overburden material found beyond mining lease near BP-24 to BP-25.	Violation pointed out under Rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	NA	
4c	Number of Dumps within lease area and outside lease area	Nil	Dumping of overburden material found beyond mining lease near BP-24 to BP-25.	Violation pointed out under Rule 11(1) of MCDR 2017.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Dumping of overburden material found beyond mining lease near BP-24 to BP-25.	Violation pointed out under Rule 11(1) of MCDR 2017.
4e	Number of Active & Alive dumps	Nil	Nil	
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	Proposed	As per proposal	
4i	Length of Retaining wall or garland drain all along dump	79m	70m	
4j	Number of settling ponds	01	01	
4k	Specific commends officer on waste dump management	Dumping of overburden material found beyond mining lease near BP-24 to BP-25. Violation pointed out under Rule 11(1) of MCDR 2017.		

Solid waste management-backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	As per approved proposal OB is utilized in proposed backfilling.	
5b	Area under backfilling of mined out area	0.05hect	As per proposal	
5c	Concurrent use of Topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NA	
5d	Total area fully rehabilitated	Not Proposed	NA	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling and reclamation. Only reclamation / backfilling of old excavation found in progress as per approved proposal in year before the reviewing year		

Progressive mine closer plan

Sl.No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Annual report on PMCP has been Submitted.	
6b	Management of worked/mined out benches	Nil	NA	
	i)Area available for rehabilitation (Ha)	Nil	NA	

	ii) Afforestation done (ha)	0.018	0.015	
	iii) No. of saplings planted during the year	Nil	25	
	iv) Cumulative no. of plants	Not proposed	NA	
	v) Any other specific method of rehabilitation	Nil	Nil	Nil
	vi) Cost incurred on watch & care during the year	Not proposed	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer	Not proposed	Nil	

	zone)			
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

Mineral conservation :

Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Dispatch proposed with mineral processing through magnetic separator	As per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Magnetic separator	As per proposal.	
7c	Different grade of mineral sort out at mine	+60% Fe content	As per proposal.	
7d	Any beneficiation process at mines	Dispatch proposed with mineral processing through magnetic separator	As per proposal.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no issue related with mineral conservation aspect as mineral processing unit is already installed (Magnetic Separator) within lease area. And entire mineral from the lease area as well as from the adjoining lease area take place after mineral processing.		

ENVIRONMENT

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	There is no topsoil	Nil	
8b	Concurrent use or storage of topsoil	There is no topsoil	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed.	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Around 25 plants has been planted in lease area and surroundings	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	25 nos of saplings planted.	
8g	Survival rate	80%	50-70%	
8h	Water sprinkling on roads to control airborne dust	yes	Regular Water sprinkling on roads to control airborne dust is in practice by lessee's water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area needs improvement.		

Compliance of rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Returns are submitted on time.	Returns are submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer,	The details wrt to Mining Engineer in charge & Geologist in charge were	Name of the Mining Engineer: Shri J.N.Patnaik, (Diploma in Mining) (DOA-01/09/20) and Shri Rohit Kanojiya ,	

	Geologist and Manager	furnished.	Geologist (M.Sc Geo) (DOA- 20/05/20)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	The details wrt to Lease area (surface area) utilisation as at the end of year is incorrectly 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 0 ii) Survival rate in percentage 60 0	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Given	Graded Iron ore Fines of 45 to 51. ROM Opening stock at mine-head - 28265 T. Production- 10400 ROM closing stock - 27089 T	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Given	Ex mine Price & sale value both are: Rs.1262/-- per ton, Cost of production = Rs. 820-per tone	
9i	Scrutiny of Annual return on Fixed assets	Given	Rs. 14026000	
9k	Scrutiny of Annual return on mining Machineries	Given	Front end Loader - 1 (1.2cum bucket capacity) Dumper 16 TONNE - Two Dumper 10 tonner -One Pump (NON-ELEC.) - One Water tanker-2000L-One	

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
Rule 11(1)	19-JUN-24	14-AUG-24			
Rule 12	19-JUN-24	14-AUG-24			
Rule 31(4)	19-JUN-24	14-AUG-24			
Rule 33	19-JUN-24	14-AUG-24			
Rule 34A(2)	19-JUN-24	14-AUG-24			
Rule 45(7)	19-JUN-24	14-AUG-24			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines