

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-144/NGP

Mine code : 40MPR01022

- (i) Name of the Inspecting : **KQ14**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/S V A BORKAR (AGENT), M K CHOUDHARY (MINE MANAGER),
Official with
Designation
- (iv) Date of Inspection : 11-DEC-19
- (v) Prev.inspection date : 16-NOV-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMRAMA**
- (b) **Registration NO.** : **IBM/1260/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : RAMRAMA
Taluka : WARSEONI
Post office : RAMARAMA
Pin Code :
FAX No. : 07632-240394
E-mail : aptrivedisons@gmail.com
Phone : 09977302682
- (f) Police Station : WARASEONI
- (g) First opening date : 04-MAY-76
- (h) Weekly day of rest : SAT
2. Address for : VILLAGE & POST RAMRAMA
correspondance : TEHSIL-WARASEONI
DIST BALAGHAT M.P.
3. (a) Lease Number : MPR0572
- (b) Lease area : 43.09
- (c) Period of lease : 30
- (d) Date of Expiry : 30-JUN-32
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : Shri A. P. Trivedi
 Waraseoni, Balaghat-481332
 BALAGHAT MADHYA PRADESH
 Phone:
 FAX :

Owner : M/s A.P.Trivedi Sons
 P.B.No.1, Main
 Road,Balaghat Distt.
 Balaghat (MP) BALAGHAT
 MADHYA PRADESH
 Phone:
 FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	14-DEC-01
Plan/Scheme of Mining		Modif.of approved Mining Plan	26-MAY-04
		Mining Scheme rule 12 MCDR1988	03-MAR-06
		Modif.approved Mining Scheme	29-MAR-07
		Renewal under rule 24 MCR1960	07-JAN-09
		Mining Scheme rule 12 MCDR1988	03-JUN-11
		Modif.approved Mining Scheme	10-JAN-14
		Mining Scheme rule 12 MCDR1988	03-JUL-15

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	Exploration over lease area for G1 in the potential mineralised zone.	G1- 10.775 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration not proposed in the RY 2018-19 for the balance area in approved document.	No exploration done in RY 2018-19	Approx. 1100 m non core exploration proposed in the year 2019-20 in the 100m x 100m grid interval.
1e	Balance reserve as on 01/04/20		Reserve as on 01.04.2019: 832541 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not proposed in the RY 2018-19 for the balance area in approved document. Approx. 1100 m non core exploration proposed in the year 2019-20 in the 100m x 100m grid interval.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	PIT 1 & 2 and UG	PIT 1 & 2 and UG	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:4.60	1:3.32	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	83200 m3. In underground mine 84m vertical development was proposed between 272mRL to 286mRL.	72485 m3. only 51m vertical development was achieved in the year 2018-19.	The mine-development was lagging from the proposal. Violation pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine-development was lagging from the proposal. Violation pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	25305 MT	21790 MT	
3c	Recovery of sailable/usable mineral from ROM production	90%	Approx. 86 % as per provided records.	
3d	Quantity of mineral reject generation	10%	Approx 14% (3054 TONNES)	
3e	Grade of mineral rejects generation and threshold value declared.	10%	Approx. 10% as per provided records.	

3f	Quantity of sub grade mineral generation.	Not proposed	NA	
3g	Grade of sub grade mineral generation	10-20%	10-20%	Mineral reject is stored as sub grade mineral for future market.
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.	Not proposed	NA	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
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	separate benches of less than 6m height shall be maintained in the openpit mine and bench widths at the mine shall not be less than the height of the benches at any place	in the northern side of the lease benches have been merged up some places near BP no. 34 to BP no. 36 and also between the grids E875 to E1100 and N1600 to N1700, resulting height of the benches found more than the proposed in approved document. And, it was also observed that at some places in the northern side between BP no. 34 to BP no. 36 width of the benches found very less than the height of the benches.	Violation pointed out for the same.
3m	Total area covered under excavation/pits	11 ha	11 ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:4.60	1:3.32	
3o	Total area put in use under different heads at the end of year	15.938 HA.	15.938 HA.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 19766 2015-16 15890 2016-17 34160 2017-18 24938 2018-19 25305	2014-15 2015-16 17033 2016-17 16005 2017-18 11655 2018-19 21790	14971
3q	General remarks of inspecting officers on method of mining etc.			Bench height in the Opencast mining was not maintained as per approved document at some places as mentioned above. Voilation pointed out for the same.

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	
4b	Location of topsoil, OB and mineral reject dumps	RND-4	RND-4	
4c	Number of dumps within lease area and outside of lease area	8 dumps within lease area	8 dumps with in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	out side UPL	out side UPL	
4e	Number of active and alive dumps.	06 temporary dumps, 01 active dump	06 temporary dumps, 01 active dump	

4f	Number of dead dumps.	one dead dump	one
4g	Number of dumps established.	one	one
4h	Whether Retaining wall or garland drain all along dumps are there.	GARLAND DRAIN TO BE PROVIDED	GARLAND DRAIN PROVIDED
4i	Length of Retaining wall or garland drain all along dumps	300 m	300 m approx.
4j	Number of settling ponds	Not proposed	07 settling ponds provided.
4k	Specific comments of inspecting officer on waste dump management		

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	Full extraction	
5b	Area under backfilling of mined out area	Nil	Area not matured for backfilling.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed and rehabilitated	Not proposed	NIL	

5e General remarks
of inspecting
officers on
backfilling and
reclamation etc.

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	Not submitted.	Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	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 backfilled area	NA	NA
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.	Not proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Yes	Yes
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	with in permissible limit

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19. Violation pointed out for the same.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SHORTING OF ROM & DESPATCH	GRADE WISE SHORTING OF ROM & DESPATCH	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	
7c	Different grade of mineral sorted out at mines.	BELOW 25% MN 25% TO BELOW 35% MN 35% TO BELOW 46% MN 46% MN & ABOVE	BELOW 25% MN 25% TO BELOW 35% MN 35% TO BELOW 46% MN	
7d	Any beneficiation process at mines .	Manual sorting and washing	Manual sorting and washing	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	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	Not proposed for the RY 2018-19	Area not matured for backfilling.	
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)	plantation in the waste land	Plantation done in the waste land	
8g	Survival rate	70%	approx 70 %	
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			genral cleanliness is good in mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR from Apr-18 to Mar-19 and AR of 2018-19 to be submitted	MR from Apr-18 to Mar-19 and AR of 2018-19 submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mine Manager & Mining Engineer are appointed. but, whole time Mine Geologist has not been appointed for this lease area as per provisions of rule.	Violation pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	In the part- I, Lease area (surface area) utilisation as at the end of year (hectares) the item (iv) used for waste disposal was not clear.	Violaton pointed out for the same.
9d	Scrutiny of Annual return on afforestation	Yes	Afforestation done in the waste land within the lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	14 % (3054 MT)	3054 MT Mineral reject as per provided records.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	In sec-4.3 of Part V, Stope preparation (meters), Tonnage of ore blocked for stopping (tonnes) and Quantity of waste removed (tonnes) is shown "zero".	Violation pointed out for the same.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	found as per AR	
9h	Scrutiny of Annual return on fixed assets	Yes	In part II-A, it has been stated that loan of amout 20000000 & 28965487 has been taken from Bank of Maharastra & Eledweise Retail Finance Ltd respectively and paid interest of Rs. 7772882 which is not clear.	Violation pointed out for the same.

9k	Scrutiny of Annual return on mining machineries	Yes	As per AR
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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 33	16-JAN-20		MCDR17 Rule 11(1)	16-JAN-20	
MCDR17 Rule 11(1)	16-JAN-20		Rule 26(2)	16-JAN-20	
Rule 26(2)	16-JAN-20		MCDR17 Rule 33	16-JAN-20	
Rule 55	16-JAN-20		Rule 45(7)	16-JAN-20	
Rule 45(7)	16-JAN-20		Rule 55	16-JAN-20	

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines