

**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 : **SQ32**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 09-DEC-20
- (v) Prev.inspection date : 11-DEC-19

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.,1446 mtr was planned.	G1-1154 mtr drilling was done in 19-20.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not given	not given	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G1: 11 hect mined out : 4.5 hect barren:29.9635	
1e	Balance reserve as on 01/04/20		111-791369,221-452466 ,333-36974 in metric tons.	

1f	General remarks of inspecting officers on geology, exploration etc	Exploration done as proposed in the RY 2019-20 for the balance area . the area has splintered ore body with complex structure.the area has north ore body ,central ore body and middle ore body.middle ore body has incline depth, 19mtr and north dip,20 mtr thicknessand is 190 mtr in .Middle ore body has thickness mtr31 ,8mtr thickness,120 mtr strike.north body has strike 190 mtr ,22 mtr lenght south dipping and approx 22m tr thickness.the area has both opencast and ug working. approved document.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	quarry no 2 and ug working	quarry no 2 and UG	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	done	
2c	Stripping ratio or ore to OB ratio	1: 4.89	1:7.20	ore: waste,T:T
2d	Quantity of topsoil generation in m3	nil	nil	

2e	Quantity of overburden generation in m3	45000 m3	62256 m3	some of last year ob removed this year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			in opencast the developemnt done is mor e on account of last year backlog.developeme nt in U/g is 433 mtrs as planned 409 mtr in ore drive/raise/winzes etc.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one openpit and ug	one openpit and ug	
3b	Quantity of ROM mineral production proposed	62128 tn(12863 oc+49265 ug)	41,172 TN(12098.T oc +29074 T UG	
3c	Recovery of sailable/usable mineral from ROM production	yes	done	
3d	Quantity of mineral reject generation	3106	6540	the reject generated is stocked as subgrade for future use/blending.
3e	Grade of mineral rejects generation and threshold value declared.	less than 10% mn	less than 10% mn	
3f	Quantity of sub grade mineral generation.	5 % of ROM	nil	SUBGRADE NOT REPORTED

3g	Grade of sub grade mineral generation	10-20%	nil	NOT REPORTED.
3h	Manual / Mechanised method adopted for segregating from ROM	nil	nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no	as per leese one study is planned to be done.	
3j	Provision of drilling and blasting in mineral benches	yes	done	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes 5mtr ,3mtr	it is suitable for mechanised mining	
3m	Total area covered under excavation/pits	11.135	11 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1: 4.89	1: 7.20	ore :waste,T:T
3o	Total area put in use under different heads at the end of year	24.73 hect	26.25 hect	A REVISED PLAN WITH ENHANCED BG GIVEN FOR THIS EXCEEDED UDE FROM 20-21.rMP IS REVISED FROM 20-21 FOR NEXT 5 YEARS.

3p	Production of ROM mineral	2015-16	15890	2015-16	17033
	during the last	2016-17	34160	2016-17	16005
	five year period	2017-18	24938	2017-18	11655
	as applicable	2018-19	25305	2018-19	21790
		2019-20	62128	2019-20	41172

Mine is developed by opencast working and underground mines. The lease area has three quarries namely Quarry I, II and III. Quarry I is working pit by opencast working which is partially backfilled in eastern part and remaining part of quarry no I and quarry no. II are working pit by opencast. The underground is in operations on northern side of earlier worked out area by opencast up to MRL 315 in quarry no III i.e. North dipping limb.in 19-20 approx 70 % is achieved of planned quantity.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping for waste of topsoil, OB and mineral rejects (Rule 32,33)		yes done.	
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	08	08	all within lease.

4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	07	07	
4g	Number of dumps established.	nil		dumping is already done on dump created in past years
4h	Whether Retaining wall or garland drain all along dumps are there.	yes		maintained.
4i	Length of Retaining wall or garland drain all along dumps	yes	yes	the drains are provided at dump 4 and 3 as per proposal from last years. approx. 400 mtr.
4j	Number of settling ponds	07	07	
4k	Specific comments of inspecting officer on waste dump management			dumping is done on waste dump 4 as per plan. plantation is done on old inactive dumps. garland drain are made at bottom.

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.	no backfilling proposed.	NA	
5b	Area under backfilling of mined out area	no backfilling proposed.		approx. 2.5 hect is backfilled in past. last SOM

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no backfilling Na proposed.no top soil removal in year	
5d	Total area fully reclaimed and rehabilitated	no backfilling nil proposed.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		no backfilling is proposed in review year.

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).		submitted.	
6b	Area available for rehabilitation (ha) .	no proposal for mined out benches.	nil	
6c	afforestation done (ha).		no proposal for mined out benches.nil	no proposal for mined out benches.
6d	No. of saplings planted during the year		no proposal for mined out benches.	nil
6e	Cumulative no .of plants		nil	no proposal for mined out benches.
6f	Any other method of rehabilitation		nil	no proposal for mined out benches.
6g	Cost incurred on watch and care during the year		no proposal for mined out benches.	nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	no proposal for backfilling in year	na	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	no proposal for backfilling in year	some backfilling is done in eastern side of pit 1.	violation issued.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	no proposal for backfilling in year	na	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	no proposal for water reservoir in year		
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	no proposal for backfilling in year	na	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.8 hectare	0.8 hect	barren land and dumps
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1000 nos plantation	1050 nos.	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	not proposed	not proposed	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			lot of plantation is done in mines,office area,dumps and periphery area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting	grade wise sorting	
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.	1. Below 25% 2. 25% TO 35% 3. Above 35% to 46%	1. Below 25% 2. 25% TO 35% 3. Above 35% to 46%	
7d	Any beneficiation process at mines	sizing, sorting , washing, gravity seperation	sizing, sorting , washing, gravity seperation	.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	sizing, sorting, washing, gravity separation. efforts are made to use all fracting by grade improvement, sorting gravity separation washing etc of ore.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes in previous years. not in current year.	not in current year	
8b	Concurrent use or storage of topsoil	nil in current year	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes .for waste rock and subgrade	made for waste rock and subgrade	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not in review year	some backfilling is done in pit 1.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	not in review year	some backfilling is done	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	baseline 3000,addittional 1000 nos	1000 nos.	
8g	Survival rate	70 %	70 %	
8h	Water sprinkling on roads to control airborne dust	yes	being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			leese has developed good garden in office area.lot of plantation is done in mines,and sorrounding area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		submitted both monthly and annual RETURNS FOR YEAR 19-20.MONTHLY RETURNS ARE FILED UPTO MAY 21.ANNUAL RETURNS HAVE BEEN SUBMITTED IN TIME.ANNUAL RETURNS ARE SUBMITTED UPTO YEAR 19-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	. Mining Engineer in charge Shri Gaurav M Khursange Geologist in charge Shri R.M. Gupte	appointed.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	0.000 0.000 (ii) Covered under current (O/C) Workings 11.000 (iii) Reclaimed/Rehabilitated 2.000 (iv) Used for waste disposal 0.000 13.410 (v) Occupied by plant, buildings, residential, welfare buildings & roads 1.052 (vi) Other Purpose 0.060	details are given.
9d	Scrutiny of Annual return on afforestation	total 1500 nos, 70% survival	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	6540 mineral reject,	stocked in subgrade.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	a) Below 25% Mn 1756.070 t (b) 25% to below 35% Mn 546.689 t (c) 35% to below 46% Mn 2538.955 t	graded ore stock at mines
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Below 25% Mn 2686.00 rs/t (b) 25% to below 35% Mn - 5791.00 rs /t (c) 35% to below 46% Mn - 11602.00 rs /t	ex mine prices given. cost of production is given as -5802 Rs/T

9h Scrutiny of Value of Fixed value of FA is given
Annual return on Assets =
fixed assets 82506644
 in respect of
 the mine,
 beneficiation
 plant, mine
 work-shop,
 power and
 water
 installations

9k	Scrutiny of Annual return on mining machineries	ROCKER SHOVEL LOADER 0.210 CUM 1 Non Electrical Underground GENERATOR (DIESEL) 1.200 KWH 1 Non Electrical Both HAULAGE (ELEC.) 40.000 HP 1 Non Electrical Both AIR COMPRESSOR 600.000 CUM/MN 2 Non Electrical Both AIR COMPRESSOR 400.000 CUM/MN 1 Non Electrical Opencast AIR COMPRESSOR 250.000 CUM/MN 1 Non Electrical Underground PUMPS (ELEC.) 75.000 L/MN 1 Electrical Underground PUMPS (ELEC.) 30.000 L/MN 1 Electrical Underground PUMPS (ELEC.) 20.000 L/MN 2 Electrical Underground PUMPS (ELEC.) 15.000	the list of equipment used are provided.
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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

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines