

General

S.N.	Particulars	Details
1	Name of the Mine	RAMRAMA MANGANESE ORE MINE
	Date of Inspection:	10/06/2023
	Name of Inspecting Officer	Madhavrao Sabre (SMG)
	Name of the persons accompanied with inspecting officer with designation	Shri V. A. Borkar (Agent) Shri Madhukar Kumar Choudhary (Mine Manager) Shri Gaurav Khursange (Asst. Manager)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	43.086 HA. (TOTAL REVENUE LAND)
3	Mine code	40MPR01022
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/1260/2011
5	Name of the Lease, Address, Phone, email and fax number	M/S A.P. TRIVEDI SONS WARD NO. 15 MAIN ROAD BALAGHAT (M.P.) 07632-240394, aptrivedisons@gmail.com
6	Village	RAMRAMA
7	Taluka/Mandal	WARASEONI
8	District	BALAGHAT
9	Pin code	481332
10	State	M.P.
11	Post Office	RAMRAMA
12	Nearest Police Station	WARASEONI
13	Nearest Railway Station	SAWANGI
14	Date of Grant of Mining Lease	22/03/2002
15	Date of Execution	01/07/2002
16	Date of opening of Mine	01-07-1982
17	Date of First Renewal, if applicable and its period & expiry	EXTENDED FROM 01/07/2022 TO 30/06/2032
18	Date of Second Renewal, if applicable and its period & expiry	NIL
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NIL
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	MR. V.R. TRIVEDI (NOMINATED OWNER) M/S A.P. TRIVEDI SONS WARD NO. 15 MAIN ROAD BALAGHAT (M.P.) 07632-240394, aptrivedisons@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	MR. V.A. BORKAR VILLAGE & POST RAMRAMA TEHSIL-WARASEONI DIST BALAGHAT M.P. 9977302682 09/12/2014 aptrivedisons@gmail.com
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	MR. M.K. CHOUDHARY VILLAGE & POST RAMRAMA TEHSIL-WARASEONI DIST BALAGHAT M.P. 9754634242 01/12/2013 aptrivedisons@gmail.com
23	Name of the Mining Engineer & Geologist, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	(1) MR. M.K. CHOUDHARY (AMIE MINING) 15 YEARS, VILLAGE & POST RAMRAMA TEHSIL-WARASEONI DIST BALAGHAT M.P. 9754634242 15/12/2020 aptrivedisons@gmail.com

		(2) MR. R.M. GUPTA (MSC.GEOLOGY) 40 YEARS, VILLAGE & POST RAMRAMA TEHSIL-WARASEONI DIST BALAGHAT M.P. 9977694095 19/02/2020 aptrivedisons@gmail.com
24	Whether Geologist & Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule.	Yes
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	16/06/2020 MP/Balaghat/Manganese/MPLN/MOD-32/2019-20/516 जबलपुर, दिनांक 16.06.2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	16/06/2020 MP/Balaghat/Manganese/MPLN/MOD-32/2019-20/516 जबलपुर, दिनांक 16.06.2020 for the period of 5 years from 2020-21 to 2024-25
27	Mineral(s) granted in lease and approved for Mining	MANGANESE ORE
28	Method of Mining (Opencast, Underground)	OPENCAST & UNDERGROUND
29	Category (Fully Mechanized, Others or Manual)	OTFM 'A' CATEGORY
30	Captive/Non-Captive	NON-CAPTIVE

Exploration

S.N.	Item	Proposals 2022-2023	Actual Work 2022-2023	Remarks
1a	Backlog of previous year	No	No	
1b	Exploration over lease area for Geological axis 1 or 2.	551 Mtr	551 Mtr	Total 5 No. Bore holes drilled in year 2022-23
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	NA	NA	
1e	Balance reserves as on 01.04.2023	-	5,73,558	
1f	Brief of Geology of lease area & Exploration etc.	The topography is rolling and surface RL varies from MRL 336 to MRL 342. The general strike of the ore body is North 61 ^o West. The ore body is subjected to severe overturned folding having a thickness of 8.00 Mt. (minimum) and 22.00Mt. (Maximum) with both North & South dipping ore bodies with an average dip of 55 ^o . The footwall is mainly pegmatite having re-crystallized quartz and hanging wall rock formation is quartzite and mica schist.		

Development

S.N.	Item	Proposals 2022-2023	Actual Work 2022-2023	Remarks
2a	Location of Development w.r.t. lease area	Pit No.1&2	Pit No.1&2	
2b	Separate benches in topsoil overburden and mineral	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:3.88	1:5.50	
2d	Quantity of topsoil generation in m ³	-	-	
2e	Quantity of overburden generation in m ³	34,346	48,461	
2f	Brief of development of pit w.r.t. type of deposit etc	Development done. But height of benches not maintained, for which violation pointed out.		

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S.N.	Item	Proposals 2022-2023		Actual Work 2022-2023	Remarks
3a	Number of pits proposed for production	1 Pits		1 Pits	
3b	Quantity of ROM mineral production proposed (2022-23)	57,131		44,015	Violation pointed
3c	Recovery of Salable/usable mineral from ROM production	85%		81.30%	
3d	Quantity of mineral reject generation	-		5805 Ton	Bellow 10%
3e	Grade of mineral reject generation and threshold value declared	10%		10%	
3f	Quantity of sub-grade mineral generation	-		2153 Ton	
3g	Grade of sub-grade mineral generation	10%		10%	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual/Mechanized		Manual/Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject			Installation of Hydro cyclone/picking belt/classifier for beneficiation of sub-grade mineral.	
3j	Provision of drilling & 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	Yes		Yes	
3m	Total area covered under excavation /pits	11.45 Ha.		11.45 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	3.88		5.50	
3o	Total area put in use under different heads at the end of year	24.2105 Ha.		24.2105 Ha.	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	42,663	38,800	From O/C & U/G Both
		2019-20	62,128	41,172	
		2020-21	61,752	43,349	
		2021-22	60,463	42,814	
		2022-23	57,131	44,015	
3q	Brief details w.r.t. method of mining etc.	(1) Opencast working – OTFM. (2) Underground working – Dev. & Stopping with Horizontal cut & fill method.			

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S.N.	Item	Proposals 2022-2023	Actual Work 2022-2023	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	RND 9 (Topsoil) RND-4 (OB) RND 3 (Mineral Reject)	RND 9 (Topsoil) RND-4 (OB) RND 3 (Mineral Reject)	
4c	Number of Dumps within lease area and outside lease area	3 No.	3 No.	Within lease area 3 no. Dumps are reclaimed.
4d	Location of Dumps w.r.t. ultimate pit limit	South of Pit No. 1 & 2	South of Pit No. 1 & 2	
4e	Number of Active & Alive dumps	RND-4 (1No.)	RND-4 (1No.)	
4f	Number of dead dumps	Two Dumps	Two Dumps	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes Provided	
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall 65 Mtr. & Garland Drain 200 Mtr.	Retaining Wall 65 Mtr. & Garland Drain 200 Mtr.	
4j	Number of settling ponds	3 No.	3 No.	
4k	Brief details regarding waste dump management	O/B Waste is disposed in separated dump area. RND-4 for proposal year 2022-23. At some places dumping done in 7.5 m barrier/out side L.B for which violation pointed out.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No	Mining is in progress in Pit No.2 & 3	
5b	Area under backfilling of mined out area	NO	NO	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area		Top soil used for Plantation	
5d	Total area fully reclaimed & rehabilitated		No	
	Brief details regarding backfilling and reclamation etc.	Total 3.3125 Ha. Area backfilled. & 0.46 Ha. Area proposal for 2022-23 year is done.		

Progressive Mine Closer Plan

S.N.	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.	Yes	Yes Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	NA	NA	
	ii) Afforestation done (ha)	NA	2.0 Ha. Year 2022-	

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	iii) No. of saplings planted during the year	NA	Within lease -5000 Nos. Outside lease – 100 Nos.	
	iv) Cumulative no. of plants	NA	Total 18,910 No. of trees planted till the year 2022-23	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	NA	NA	
6c	Compliance on reclamation and rehabilitation by backfilling		O/c working 0.46 Ha. Eastern part of pit no.1 is backfilled.	
	i) Voids available for backfilling (L*B*D)			
	ii) Void filled by waste/tailings		In u/g regular void filling of stope is in practice.	
	iii) Afforestation on the backfilling	Yes	Yes	
	iv) Rehabilitation by making water reservoir		Yes Pit No. 1	
	v) Any other specific means	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease		Total no. of tree planted 18,910	
	i) Afforestation			
	ii) Area rehabilitation		No	
	iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)		Yes	
6f	Brief details of PMCP compliance and progressive closure operations etc.	Backfilling is done in North eastern part of pit No. 1 Backfilling done as per proposal year 2022-23 and PMCP data submitted.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade wise sorting of ROM & dispatch	Grade wise sorting of ROM & dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual/Mechanized	Manual/Mechanized	

MCDR-MIFLOMn/20/2023-JBP-IBM, RO-JBP				
7c	Different grade of mineral sort out at mine	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	Yes	Yes	Washing of Ore
7e	Brief details about Mineral conservation and beneficiation issues	Screening, Sizing & Jigging etc. to sorting & grading of mineral & separate stacking of sub-grade.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden waste rock, rejects and fines	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done	Yes	Yes	Planted 5000 plants within lease area and 100 plants planted outside lease area during the year 2022-23. Total plantation till the year is 18,910 Nos.
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	Details regarding aesthetic beauty in and around mines area	Plantation on Road side.		

Compliance of Rule 45

S.N.	Item	To be provided as per AR	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return & Annual Return submitted stipulated time period	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Shri Madhukar Kumar choudhary, Geologist : Shri R.M Gupte	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.0 (ii) Covered under current (O-C) Workings 11.450 Ha (iii) Reclaimed-rehabilitated 0.119 Ha (iv) Used for waste disposal 10.773 Ha (v) Occupied by plant, buildings,	

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		Residential, welfare buildings and roads 1.052 Ha (vi) Used for any other purpose (specify) Green Belt 0.060 Ha (vii) Work done under progressive mine closure plan during the year 0.460 Ha	
9d	Scrutiny of Annual return on afforestation	Provided	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Yes	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes	
9g	Scrutiny of Annual return on sale value, Ex-Mine price & production costs	Yes	
9i	Scrutiny of Annual return on Fixed assets	Yes	
9k	Scrutiny of Annual return on mining Machineries	Yes	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:-

Date: 12/07/2023

Name: - Madhavrao Sabre
Designation: - Senior Mining Geologist