

MCDR INSPECTION REPORT

1) Name of Inspecting officer:	Ibrahim Sharief
2) Designation	DCOM
3) Accompanying mine official with designation	R U Singh, Agent, Shri B. S Khapre, Mines Manager
4) Date of Inspection	16.10.2023

Part-I: General

S. N.	Particulars	Details
1	Name of the Mine	Sukli Manganese Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest : 59.88 Ha Non-Forest: 19.67 Ha
3	Mine code	40MPR01041/ 40MPR01067
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5711/2011
5	Name of the Lessee, Address, Phone, email and fax number	M/s. MOIL LIMITED. MOIL BHAVAN,- A,KATOL ROAD,, NAGPUR PIN - 440013
6	Village	Sukli
7	Taluka/Mandal	Katangi
8	District	Balaghat
9	Pin code	
10	State	Madhya Pradesh
11	Post Office	Sukli
12	Nearest Police Station	Sukli
13	Nearest Railway Station	Balaghat
14	Date of Grant of Mining Lease	03.04/1974
15	Date of Execution	27/09/1974
16	Date of opening of Mine	01/01/2006
17	Date of First Renewal, if applicable and its period & expiry	26/07/2016
18	Date of Second Renewal, if applicable and its period & expiry	28/01/2021, Up to 26/09/2044
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri MM Abdulla, MOIL LTD,MOIL Bhawan A-I Katol Road Nagpur-13 Date of Appointment: 19.10.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri R U Singh
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri B S Kharpe

23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Sakhil Ahamed
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Shri Subhransu Sahu
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	1. BGT/MN/MPLN-746/ NGP, 14/06/2007, 2. BGT/MN/MPLN-746/ NGP/2015, 31/08/2016 3. MP/Balaghat/MPLN/M OD-25/2019*20/679, 24/02/2020 4. MP/Balaghat/Manganese/MPLN/MOD-04/2020 -21/87, 14/08/2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	BGT/MN/MPLN-746/ NGP, 03/08/2012
27	Mineral(s) granted in lease and approved for Mining	Manganese
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Manual
30	Captive/Non-Captive	Non Captive

Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	:	Modification under rule 17I3) MCR2016 dated 14/08/2020
b) Letter No. and date of approval of mining scheme.	:	22.02.2020
c) Condition while approving the MP/ MS/ modification	:	-
d) Period of mining plan/ mining scheme in force	:	01.04.2020 to 31.03.2025

PART III-MCDR Report details.

- Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No proposal	4 Bore Holes drilled	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No proposal	Lessee	

1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal during the year	Nil	
1e	Balance reserves as on 31.03.2023	As on 01.04.2022 111- 4676 Tonnes 121- 64555 Tonnes Depleted during the year 1221-14999 Tonnes	Balance as on 01.04.2023- 111- 4676 Tonnes 121- 49556 Tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	As per geological considerations, pocket type deposit of Mn Ore exist in the Sukli Mine. It is central crystalline zone of saucer series.ore is present as bands /pockets pattern in both dip and strike .bands and pocket in 15to 20mtr dip in length with 15 to 30 mtr in strike length.		

2. Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit-5	Pit-5	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	OB benches : 05 Ore benches : 01	OB benches : 05 Ore benches : 01 n	
2c	Stripping ratio or ore to OB ratio	1:10	1: 8	
2d	Quantity of Topsoil generation in m ³	No proposal	Nil	
2e	Quantity of overburden generation in m ³	145285 m3	120158 m3	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is being carried out as per approved proposals		

3. Exploitation FY 2023-24

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	15000 T	14999 T	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value	No proposal	Nil	

	declared			
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes		
3k	Provision of mining machineries in mineral benches	Wagon Drill, Excavator, Dumpers, Pumps etc. are to be deployed in the mine	Machineries as proposed are found deployed in the lease.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 7.5 m bench height is suitable for this type of deposit using	Yes Suitable	
3m	Total area covered under excavation /pits (Ha.)	7.564 Ha	7.564 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1 : 10	1 : 8	
3o	Total area put in use under different heads at the end of year	(i) Covered under current Workings 7.564 Ha (ii) waste disposal – 10.904 Ha (iii) Occupied by plant, buildings, residential, roads etc.- 1.236 Ha (iv) Other PMCPO Work- 0.75 Ha	Area put to use is within FA submitted	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19 –8505 T 2019-20 –15000 T 2020-21 –15000 T 2021-22 –15000T 2022-23 -15000 T	2018-19 –4141 T 2019-20 – 8500 T 2020-21 – 14751 2021-22 – 14945 2022-23- 14999 T	
3q	General remarks of inspecting officer on method of mining etc	Development of the pit is being done in opencast mining method as per approved document.		

4. Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes separate dump for Top Soil, OB is Proposed	Yes maintained	
4b	Location of topsoil, OB &	N 21° 40' 17" E 79°	N 21° 40' 17"	

	mineral reject dumps	40' 23"	E 79° 40' 23"	
4c	Number of Dumps within lease area and outside lease area	One	One	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of Active & Alive dumps	Within lease area - One	Within lease area -One	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps established	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	Retaining wall is established
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No Proposal	Nil	One settling pond was observed
4k	Specific comments of inspecting officer on waste dump management	Retaining wall and Garland drain is maintained around waste dump		

5. 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 proposal	No area is matured for backfilling.	Existing pit is not fully extracted
5b	Area under backfilling of mined out area	Nil	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Na	
5d	Total area fully reclaimed & rehabilitated (Ha)	No Proposal	Nil in RY	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is matured for backfilling.		

6. Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	Yes submitted in time	
6b	Area available for rehabilitation (Ha)	No Proposal	Nil	
6c	Afforestation done (ha)	0.20	0.250	
6d	No. of saplings planted during the year	100	200	
6e	Cumulative no. of plants	No such	400	

		proposal		
6f	Any other specific method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch & care during the year	Plantation	About Rs. 10000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	No Proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No Proposal	Nil	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Yes over 0.25 Ha area	200 saplings planted on 0.50 ha area during RY	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	No proposal	Nil	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Environment Monitoring proposed for core and buffer zone	Being done regularly, all the parameters are within the prescribed limit.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual report of PMCP is submitted and found in accordance to approved mining plan. Plantation done in the waste land. During the year 500 saplings planted on 0.25 ha land..		

7. Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM produced is to be dispatched	ROM produced is	

			being dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	Yes different grade above threshold value is being sorted and sized as per customer requirement	Yes being done as proposed	
7d	Any beneficiation process at mines	Yes, Manual sorting and screening	Manual sorting and screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral above threshold is being utilized. Manual sorting of the mineral is being done from the ROM for mineral conservation		

8. Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Nil	
8b	Concurrent use or storage of topsoil	Yes Proposed	Top Soil is used over backfilled area.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes proposed	Yes being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation proposed	Plantation done on 0.25 ha during RY	Plantation observed in the waste land and around the lease area.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No Proposal	Additional plantation done	
8g	Survival rate	80%	90%	
8h	Water sprinkling on roads to control airborne dust	Yes, Proposed	Water sprinkling is being carried out regularly.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation observed in the waste land and around the lease area for aesthetic beauty.		

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return & Annual Return – Online return are being submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer – Sakil Ahamedr Geologist – Shubransu Pani, Mine Manager - – B S Karpe	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current Workings 7.564 Ha (ii) Used for waste disposal – 10.904 Ha (iii) Occupied by plant, buildings, residential, welfare buildings & roads 1.236 Ha (iv) Other PMCP Work- 0.75 Ha	
9d	Scrutiny of Annual return on afforestation	Actual- 500Nos Survival rate- 80%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM : Nil 25 to <35% Mn 272.64 T 35 to <46% Mn 1.18 T	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine Price : 25% to Below 35% = Rs. 7918.81 35% To below 46% Mn= Rs.14448 Production Cost : Rs. 3493	
9i	Scrutiny of Annual return on Fixed assets	Total Value of Fixed Assets: Rs. Nil /-	
9k	Scrutiny of Annual return on mining Machineries	DumperDumper-05 Electric Pump- 01 Excavator - 01	

Details of violations observed during current inspection and compliance position of violation pointed out

Earlier violation under rule 11(1) has been complied by Lessee.
No Violation was pointed out during the inspection.

Date:

Name : Ibrahim Sharief

Designation: Deputy Controller of Mines