

**DATASHEET(2023-24)****General**

S.N.	Particulars	Details
1	Name of the Mine	Ukwa lugma Mine
	Date of Inspection:	10.05.2024
	Name of Inspecting Officer	Shri Madhavrao Sabre, Senior Mining Geologist
	Accompanying Mine officials with designation	Shri Prashant Dakre (Mine Manger), Shri R U Singh Agent , Shri Vivek Kumar (U/G Manager)
	Date of previous inspection:	16.10.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	69.581 ha. (Non forest land)
3	Mine code	40MPR01044
4	IBM Registration Number under rule 45 of MCDR,1988	5711
5	Name of the Lease, Address, Phone, email and fax number	MOIL LTD, Ukwa Lugma Mine, post ukwa, tehsil Paraswada, District Balaghat.481105 <a href="mailto:moil_ukwa@rediffmail.com">moil_ukwa@rediffmail.com</a>
6	Village	Ukwa and Lugma
7	Taluka/Mandal	Paraswada
8	District	Balaghat
9	Pin code	481105
10	State	Madhya Pradesh
11	Post Office	Ukwa
12	Nearest Police Station	Ukwa
13	Nearest Railway Station	Balaghat
14	Date of Grant of Mining Lease	15.09.1965 to 14.09.1985
15	Date of Execution	30.09.1977
16	Date of opening of Mine	02.03.2007
17	Date of First Renewal, if applicable and its period & expiry	Grant date 15.01.1987, period from 15.09.1985 to 14.09.2005.
18	Date of Second Renewal, if applicable and its period & expiry	Grant date 27.09.2010, period from 15.09.2005 to 14.09.2025.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri M M Abdulla, Director (Prod. &PIng), MOIL LTD, 1 A Katol Road, Nagpur. 0712 2806243. Date of joining
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri R U Singh, MOIL LTD, Balaghat mine, bharveli village, Balaghat idisr District. M.P 441102 Date of joining 26.10.2021
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri P Dhakre, MOIL LTD, Ukwa Mine, post Ukwa, Paraswada Tehsil, Balaghat dist, M.P 481105 Date of joining 13.06.2023
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri ShrinivasBudime, BE (Mining), MOIL LTD, Ukwa Mine, post Ukwa, Paraswada Tehsil, Balaghat dist, M.P 481105
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/Balaghat/manganese/MPLN/MOD-39/18-19 dated 03.04.2019.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	MP/Balaghat/mn/RMP-34/19-20 dated 28.02.2020 for the period 2020-21 to 2024-25
27	Mineral(s) granted in lease and approved for Mining	Manganese
28	Method of Mining (Opencast, Underground)	Underground
29	Category (Fully Mechanized, Others or Manual)	Others (Semi mechanized)
30	Captive/Non-Captive	Non captive

**Exploration**

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	03	41	
1b	Exploration over lease area for Geological axis 1 or 2.	G2	G1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	MOIL proposed 3 boreholes	MOIL carried out drilling by outsourcing costing Rs.3,50,79,714	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	60 ha.	60 ha.	
1e	Balance reserves as on 01.04.2024	66,01,788 tonnes	6601788-96592 = 6505196 tonnes	Reserves are yet to be updated as the exploration work is still in progress
1f	General remarks of Inspecting officer on geology,exploration etc.	Area belongs to Rocks of Sauser Super Group. Manser and Sitasongi group of rocks i.e Mica schit and Gneiss are exposed in the area . Mn ore is associated with		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Not applicable	Not applicable	Only Underground mining is proposed
2b	Separate benches in topsoil overburden and mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio			
2d	Quantity of topsoil generation in m3			
2e	Quantity of overburden generation in m <sup>3</sup>			
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	This is an U/G mine , Development in Raize and Winze is done. Crown and Rib pillar of 5 m are left. Backfilling is done by hydraulic sand stowing.		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Under Ground	Underground	
3b	Quantity of ROM mineral production proposed (2023-24)	110000	69554	Violation pointed for shortfall
3c	Recovery of Salable/usable mineral from ROM production	100	100	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil 10 %	Nil 10%	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
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	Not proposed	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Not applicable	Drilling done by pneumatically operated Jack Hammer of 33mm dia , length 1.5 m	
3k	Provision of mining machineries in mineral benches	Not applicable	Yes, Jack hammer, LHD, SDL, Pumps, Shaft winder, Front end loader, ventilation fan	
3l	Whether height of benches in overburden	Not applicable	U/G cut and fill	

	and mineral suitable for method of mining proposed in MP/SOM		method adopted. , Hydraulic sand stowing carried out.	
3m	Total area covered under excavation /pits	Not applicable	1.5 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Not applicable	Not applicable	
3o	Total area put in use under different heads at the end of year	Excavated area- 1.5 ha. Dumps – 1 ha. Roads- 0.30 ha. Infra – 0.50 ha. Green belt – 1.25 ha.	Excavated area- 1.2 ha. Dumps – 0.9 ha. Roads- 0.20 ha. Infra – 0.50 ha. Green belt – 0.50 ha.	
3p	Production of ROM mineral during last five-years period, as Applicable	2020-21	45000 T	9920 T
		2021-22	75000T	7208 T
		2022-23	100000T	9910 T
		2023-24	110000T	69554 T
3q	General remarks of inspecting officer on method of mining etc	In 2023-24 production proposal not achieved , so violation issued.		

### Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	5883 M3	3378	
4b	Location of topsoil, OB & mineral reject dumps	N21 <sup>0</sup> 58' 56", E 80 <sup>0</sup> 27'55" Ch.67 to 71	N21 <sup>0</sup> 58' 56", E 80 <sup>0</sup> 27'55" Ch.67 to 71	Near 2 <sup>nd</sup> shaft
4c	Number of Dumps within lease area and outside lease area	01	01	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of Active & Alive dumps	01	01	
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	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not applicable	Not applicable	
4j	Number of settling ponds	Nil	Nil	
4k	Specific commends of inspecting officer on waste dump management			

### 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	Not proposed	NA	
5b	Area under backfilling of mined out area	9 stopes	Presently, mineral is not fully excavated so backfilling is not proposed.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not applicable	Not applicable	
5d	Total area fully reclaimed & rehabilitated	Not applicable	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Waste is used in Backfilling of underground Voids		

### 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-20	Yes	Yes submitted	
6b	Management of worked/mined out benches			

	i) Area available for rehabilitation (Ha)	Nil	Nil	
	ii) Afforestation done (ha)	1.0	1.0	
	iii) No.of saplings planted during the year	2000	2000	
	iv) Cumulative no. of plants	10000	10000	
	v) Any other specific method of rehabilitation	None	None	
	vi) Cost incurred on watch & care during the year	Rs.1.30 lakhs	Rs.1.50 lakhs	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not applicable	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal in waste land	Not applicable	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring is proposed	Quarterly monitoring is done and CAAQMS is installed for daily monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the RY 2000 saplings planted.		

### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM produced is dispatched	ROM produced is dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	manual	
7c	Different grade of mineral sort out at mine	Different grades are sorted	Different grades above threshold value are sorted and dispatched.	
7d	Any beneficiation process at mines	None	None	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is done in the lease area.		

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	None	Not applicable	
8b	Concurrent use or storage of topsoil	None	Not applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes for waste rock	Yes for waste rock	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	Not applicable	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1.00 ha.	1.0 ha.	
8g	Survival rate	90%	80 %	
8h	Water sprinkling on roads to control airborne dust	Yes, through tankers	Yes, through tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Water sprinkling is regularly done on surface roads, In U/G wet drilling is carried out.		

**Compliance of Rule 45**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Yes submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes furnished. Mining Engineer: Koteswar Rao Geologist : Dr. S.K Sarkar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes furnished.	
9d	Scrutiny of Annual return on afforestation	Yes 2000 Saplings.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes, Below 25% Mn : 14331.620 T 25% Mn to <35% Mn: 11774.280 T 35% Mn to <35% Mn: 4378.20 t	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Below 25% Mn : Rs2639.92 25% Mn to <35% Mn: 6024.89 35% Mn to <35% Mn: 13798.41 t	
9i	Scrutiny of Annual return on Fixed assets	Nil	
9k	Scrutiny of Annual return on mining Machineries	Rock Drill 32 mm -10 nos.  Air compressor -4  Pump -5  Generator -1	

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

Violation observed			Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
-	-	-	11(1) of MCDR 2017	18.06.2024	23.09.2024