

MCDR INSPECTION REPORT

General

S N	Particulars	Details	
1	File no.	MCDR-MiFLOFE/28/2022-BBS-IBM_RO_BBS	
2	Name of the Inspecting Officer	Vikram Deshpande, Assistant Controller of Mines	
3	Name of the Mine	Bhadrasahi Iron & Managenese Mines	
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	998.70 Frest area-932.0270	
5	Mine code	30ORI08083	
6	Date of Inspection	08.02.2025	
7	Name of official accompanying inspection	Sri Rakesh Kumar Sri Radhamadhaha Subudhi	
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4895/2011	
9	Name of the lessee, Address, phone, email and fax number	The Orissa Minerals Development Company Limited Plot No-271 Ground Floor, Bidyut Mar, Shastri Nagar, Unit-IV, Bhubaneswar.	
10	Village	Kolha-Roida, Bhuyan Roida, Kundrupani	
11	Taluka/Mandal	Barbil	
12	District	Keonjhar	
13	Pincode	758035	
14	State	Odisha	
15	Post office	Barbil	
16	Nearest police station	Barbil	
17	Nearest Railway station	Barbil	
18	Date of Grant of Mining Lease	08.11.1941 to 30.09.1960.	
19	Date of Execution	08.11.1941	
20	Date of opening of Mine	08.11.1941	
21	Date of first Renewal, if applicable and its period & expiry	01.10.1960 to 30.09.1980	
22	Date of second & thired Renewal, if applicable and its period & expiry	01.10.1980 to 30.09.1990 01.10.1990 o 30,09,2010	
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	10.08.2009 for the period (01.10.2010 to 30.09.2030)	
24	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Arun Kanti Bagchi C1407 Magnifica Block Brigade Gardenia JP Nagar Bangalore.	
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Rakesh kumar Thakurani Barbil-758035	
26	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Samar Chakraborty Thakurani Batbil-758035	
27	Name of the Mining Engineer & Geologist, Qualification and total experience	Mining engineer Qualification Date of appointment Address phone/email	Sri Rakesh kumar Thakurani Barbil-758035
		Geologist Qualification Date of appointment Address phone/email	Radhamadhaha Subudhi M.Sc. (Geology) 21.09.2010 Thakurani, Barbil-758035 9438374612.
28	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes.	
29	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	17.03.2020	
30	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	RMP/A/49-ORI/BHU/2019-20 dated 17/03/2020 for 2020-21 to 2024-25	
31	Mineral(s) granted in lease and proved for mining	Iron & Manganese	
32	Method of Mining(Open cast, Underground)	Open cast	
33	Category (Fully Mechanized, Others or Manual)	Fully Mechanised	
34	Captive/Non Captive	Non-Captive	

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year(2022-23) & (2023-24)	Nil	Nil	Mining operation closed from 30.09.2010.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	243.362 Ha.	Nil	
1e	Balance reserves as on 01.04.2023 (in MT)	70,379,348 tonnes Iron ore 10,492,296 tonnes Mn. ore	Nil	
1f	General remarks of inspecting officer on geology, exploration etc.	Mining operations are closed with effect from 30.09.2010 for want of Statutory Clearances.		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Iron=North main, south top, South bottom, Morgapit-A Manganese= Bhoot Pit, Maidan Pit, South-B.	Nil	Mining operation closed from 30.09.2010 for want of statutory clearances.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in overburden and mineral proposed	Nil	
2c	Stripping ratio or ore to OB ratio (T/T)	1:0.54 m ³ /m ³ iron ore zone 1:3.6 m ³ /m ³ in Mn. Ore zone.	Nil	
2d	Quantity of topsoil generation in m ³	No topsoil generation proposed during the reporting year	Nil	
2e	Quantity of overburden/waste generation in m ³	Mn. Zone =1,36,600 m ³ Iron zone=73,000 m ³	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mining operations are closed with effect from 30.09.2010 for want of Statutory Clearances.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	04 numbers in Iron ore Zone 03 numbers in Mn. Ore zone	Nil	Mining operation closed from 30.09.2010 for want of statutory clearances.
3b	Quantity of ROM production	3,039,075 m ³ Iron ore 236,250m ³ Mn. ore	Nil	
3c	Recovery of salable/usable mineral from ROM production	2,805,300 m ³ Iron ore 189,000 m ³ Mn. ore	Nil	
3d	Quantity of mineral reject generation	233,775 m ³ Iron ore 47,250 m ³ Mn. ore	Nil	
3e	Grade of mineral reject generation and threshold value declared	2.5 t/m ³	Nil	
3f	Quantity of sub-grade mineral generation	116887 Cum –Iron 21735 Cum-Manganese	Nil	
3g	Grade of sub-grade mineral generation	+45%-55% Fe +10-20% Mn	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanised method in Iron and Manual /semi mechanised in Mn proposed for segregating from ROM	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No analysis or beneficiation study proposed for sub-grade mineral and reject	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting proposed in mineral benches	Nil	
3k	Provision of mining machinery in mineral benches	Use of HEMM proposed in mineral benches	Nil	
3l	Whether height of benches in overburden and mineral suitable	9m-Height 12m-Width	9m-Height 12m-Width	

	for method of mining proposed in MP/SOM			
3m	Total area covered under excavation/pits	169.769 Ha	155.852 Ha	
3n	Ore to OB ratio for the pit/mine during the year(T/T)	1:0.19 t/m ³ iron 1:1.41 t/m ³ Mn.	Nil	
3o	Total area put in use under different heads at the end of year	Covered under current (O-C) Workings-169.769 ha Used for waste disposal-73.616 ha Occupied by plant, buildings, residential, welfare buildings and roads-14.541 ha Used for any other purpose (specify) occupied by plant, building, residential, welfare building and roads-12.119 ha	Covered under current (O-C) Workings-155.852 ha Used for waste disposal-58.019 ha Occupied by plant, buildings, residential, welfare buildings and roads-14.541 ha Used for any other purpose (specify) occupied by plant, building, residential, welfare building and roads-12.119 ha	AR for 2023-24
3p	Production of ROM mineral during last five-year period, as applicable			Mining operation closed from 30.09.2010 for want of statutory clearances.
	Year- 2020-21	18,00,068 Ton Iron ore 1,20,015 Ton Mn. Ore	Nil	
	Year- 2021-22	18,00,068 Ton Iron ore 1,20,015 Ton Mn. Ore	Nil	
	Year- 2022-23	18,00,068 Ton Iron ore 1,20,015 Ton Mn. Ore	Nil	
	Year-2023-24	18,00,068 Ton Iron ore 1,20,015 Ton Mn. Ore	Nil	
	Year-2024-25	18,00,068 Ton Iron ore 1,20,015 Ton Mn. Ore	Nil	
	Total	9,000,340 ton Iron ore 600,075 Ton Mn. ore	Nil	
3q	General remarks of inspecting officer on method of mining etc.	Mining operation closed from 30.09.2010 for want of statutory clearances.		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB & mineral reject proposed	Nil	Mining operation closed from 30.09.2010 for want of statutory clearances.
4b	Location of topsoil, OB & mineral reject dumps	Within Lease	Nil	
4c	Number of dumps within lease area and outside the lease area	Proposed dump =07 Outside lease aea = Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Dump-IN1 Dump-IS 2 Dump-IS6 Dump-IM2
4e	Number of active & alive dumps	Proposed -07		
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Maintenance of Retaining wall and garland drain all along dumps proposed.	Nil	
4i	Length of Retaining wall or garland drain all along the dump	NA	NA	
4j	Number of settling ponds	No proposal	Nil	
	Specific comments of inspecting officer on waste dump management	Mining operation closed from 30.09.2010 for want of statutory clearances.		

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	NA	NA	Mining operation
5b	Area under backfilling of mined out area	NA	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	closed from 30.09.2010 for want of statutory clearances.
5d	Total area fully reclaimed & rehabilitated	NA	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mineral has not exhausted hence a proposal of backfilling not given. Moreover Mining operation closed from 30.09.2010 for want of statutory clearances.		

Progressive Mine Closure Plan

S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted by 30th June	Yes, submitted along with Annual Return.	Mining operation closed from 30.09.2010 for want of statutory clearances
6b	Area available for rehabilitation (ha).	Nil	Nil	
6c	afforestation done (ha).	NA	18 ha.	
6d	No. of saplings planted during the year	12500(plan period)	Nil	
6e	Cumulative no. of plants	NA	28800	
6f	Any other method of rehabilitation	NA	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	NA		
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
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.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, water soil, Noise monitoring proposed.	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Mining operation closed from 30.09.2010 for want of statutory clearances.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Iron-18,00,068 ton Mn-1,20,015 ton.	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical for iron Manual for Mn.	Nil	
7c	Different grade of mineral sorted out at mines	+20% Mn. 10% to 20% Mn. 45% to 55% Fe. +55% Fe +60% Fe	Nil	
7d	Any beneficiation process at mines	No beneficiation process proposed at mines	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mining operation closed from 30.09.2010 for want of statutory clearances.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Nil	Mining operation closed from 30.09.2010.
8b	Concurrent use or storage of topsoil	Concurrent use or	Nil	

		storage of topsoil proposed		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock, rejects proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	NA	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Additional planation 50,000 m ²	Existing plantation over 18 Ha.	
8g	Survival rate		80%.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed.	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mining operation closed from 30.09.2010 for want of statutory clearances.		

Compliance of Rule 45

S.N.	Item	Observation of I/Officer		Remarks
9a	Status of submission of Monthly and Annual returns	Annual Return For 2023-24 submitted within time. Monthly Return submitted till January 2025		
	Item	Information as per AR	Observation	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager :Shri Saroj Kumar Khandual Mining Engineer: Shri Rakesh Kumar Mining Geologist: Shri Radhamadhaba Subudhi	Manager :None Mining Engineer: Shri Rakesh Kumar Mining Geologist: Shri Radhamadhaba Subudhi	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings-155.852 ha Used for waste disposal-58.019 ha Occupied by plant, buildings, residential, welfare buildings and roads-14.541 ha Used for any other purpose (specify) occupied by plant, building, residential, welfare building and roads-12.119 ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	Nil	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Lumps: 62% to below 65% Fe-17.025 tonnes 65% and above Fe-72.715 tonnes Fines: 55% to below 58% Fe-41.829 tonnes 58% to below 60% Fe-103957.130 tonnes 60% to below 62% Fe-0.553 tonnes 62% to below 65% Fe-12.667 tonnes	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	Appears to be correct	

9h	Scrutiny of Annual return on fixed assets	₹ 213057345	Appears to be correct	
9i	Scrutiny of Annual return on mining machineries	None	Observed to be correct	