

MCDR INSPECTION REPORT**General**

S.N.	Particulars	Details
1	Name of the Mine	Dubiyara & Tikariya Iron Ore Mine
	Date of Inspection:	15/11/2023
	Name of Inspecting Officer	Ibrahim Sharief
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	26.002 Ha
3	Mine code	30MPR18007
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/766/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s ANAND MINING CORPORATION
6	Village	Tikariya
7	Taluka/Mandal	SIHORA ,MAGHAGAON
8	District	JABALPUR
9	Pin code	483501
10	State	MADHYA PRADESH
11	Post Office	483501
12	Nearest Police Station	-
13	Nearest Railway Station	Sihora
14	Date of Grant of Mining Lease	
15	Date of Execution	02.04.1987
16	Date of opening of Mine	02.04.1987
17	Date of First Renewal, if applicable and its period & expiry	02.04.2007
18	Date of Second Renewal, if applicable and its period & expiry	Not applicable
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 Yash Pathak, Yash Tower , Pathak Ward, P.O. and District - Katni (M.P.) Pin Code – 483501
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	HARSH KAPOOR
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	VIJAY KUMAR PANDEY
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	VIJAY KUMAR PANDEY
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	ANIL PRADHAN
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP under rule 22 of MCR 1960, 27/01/2000 MP under rule 22 of MCR 1960, 26/07/2007 MMP under rule 10 of MCDR 1988, 08/05/2008 MMP under rule 17(3) of MCR 2016, 31/03/2017
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	SOM under rule 11(4) of MCDR 1988, 18/04/2006 SOM under rule 11(4) of MCDR 1988, 14/02/2013

		RMP under rule 11(4) of MCDR 1988, 26/08/2022
27	Mineral(s) granted in lease and approved for Mining	Iron Ore
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Lessee	Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2021	122- 11850585 T 222- 1794844 T Total- 13645429		
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>Geology: - The Iron ore deposit is Banded Iron formation (BIF) of Pre Cambrian age. The BIF deposit is very well developed and is siliceous. The common name used is Banded Haematite Quartzite(BHQ). The banded formation is probably formed as chemical precipitates in partially enclosed sedimentary basins of back water type. The ore body form low hillock. The ore is haematite and is often slightly specular in character and also Jaspery. The whole Lease area is mineralized. Total length of deposit in the lease area = 530m. Width of Iron ore deposit in the lease area = 366 m.</p> <p>Exploration: - Exploration has been carried out of potential mineralized area in G1 scale of exploration</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N2585732 – 258602 E 414112- 414558 386MRL to 365 MRL	Development is being carried out as proposed.	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in Ore and Soil is proposed	Separate benches in Ore and Soil is found maintained	
2c	Stripping ratio or ore to OB ratio	1 : 0.11	1 :	
2d	Quantity of topsoil generation in m ³	No proposal	Not applicable	
2e	Quantity of overburden generation in m ³	16548	40833	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is being carried out as proposed.		

Exploitation

S.N	Item	Proposals	Actual Work	Remarks	
3a	Number of pits proposed for production	One pit	One pit		
3b	Quantity of ROM mineral production proposed (2022-23)	817856	817468		
3c	Recovery of Salable/usable mineral from ROM production	100%	100%		
3d	Quantity of mineral reject generation	No proposal	Not Applicable		
3e	Grade of mineral reject generation and threshold value declared	Not applicable	Not Applicable		
3f	Quantity of sub-grade mineral generation	No proposal	Not Applicable		
3g	Grade of sub-grade mineral generation	Not applicable	Not Applicable		
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised method of mining to be adopted	Mechanised method of mining is adopted		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal to carry out beneficiation study during the year	Nil		
3j	Provision of drilling & blasting in mineral benches	No drilling and blasting is proposed	No drilling & Blasting		
3k	Provision of mining machineries in mineral benches	Back Hoe- 1.2 cum, Dumper- 25 T, Front End Loader- 1.7 cum, Mobile Screening Water tank- 5000 Ltr	Back Hoe- 1.2 cum, Dumper- 20 T, Front End Loader- 1.7 cum, Mobile Screening Water tank- 5000 Ltr		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Mtr height is proposed using HEMM	Yes 6 Mtr is suitable for proposed method of mining		
3m	Total area covered under excavation /pits	12.15 Ha	11.42 Ha		
3n	Ore to OB ratio for the pit/mine during the year	1 :0.11	1 : 0		
3o	Total area put in use under different heads at the end of year	20.59 Ha	20.24 Ha		
3p	Production of ROM mineral during last five-years period, as Applicable	18-19	990356	869930	
		19-20	995871	861238	
		20-21	997920	970316	
		21-22	976860	736804	
		22-23	817856	817468	
3q	General remarks of inspecting officer on method of mining etc	Mechanised method of mining is being carried out with HEMM without drilling and blasting.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No proposal	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Not applicable	Nil	
4c	Number of Dumps within lease area and outside lease area	2 No.	2 No.	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	2 No.	2 No.	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	No proposal	No proposal	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes proposed	Completed	
4i	Length of Retaining wall or garland drain all along dump	395 meters	400 meters	
4j	Number of settling ponds	No proposal	2 Settling ponds maintained in mine	
4k	Specific comments of inspecting officer on waste dump management	Waste management is carried out as proposed.		

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	full extraction of mineral from mined out area before starting backfilling	full extraction of mineral is ensured from mined out area before backfilling	
5b	Area under backfilling of mined out area	0.013 Ha	No backfilling carried out as ore is not exhausted	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling is being carried out after ensuring complete extraction of ore.		

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 to be submitted	Yes submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposal	Nil	
	ii) Afforestation done (ha)	0.13 Ha	0.5 Ha	
	iii) No. of saplings planted during the year	150	1300	
	iv) Cumulative no. of plants	No proposal	About 10730	

	v) Any other specific method of rehabilitation	No proposal	Nil	
	vi) Cost incurred on watch & care during the year	No proposal	Nil	
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	0.13Ha Waste No proposal No proposal No proposal	0.15 Ha 1 Nil Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal No proposal No proposal	Nil Nil Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring for Air, Water, Noise is to be carried out	Environment monitoring for Air, Water, Noise is being carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Afforestation is being done, yearly report on PMCP is being submitted and Environment monitoring is being carried out		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM ore produced is to be dispatched.	ROM ore produced is being dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized method is to be adopted	Mechanized method of mining is adopted	
7c	Different grade of mineral sort out at mine	45% Fe to 55% Fe	45% Fe to 55% Fe	
7d	Any beneficiation process at mines	Dry screening	Dry Screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Low grade ore is being blended with high grade ore to make it marketable		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	

8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes separate dump for overburden is proposed	Separate dump for overburden is observed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes overburden generated is used for backfilling	overburden generated is being used for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Yes reclamation proposal to restore the pit	Reclamation proposal is there to restore the pit	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Additional plantation of about 150 sapling is proposed	1300 saplings planted during the year	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling arrangements to be done to suppress the	Water sprinkling arrangements is there to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation and land restoration is being done to improve aesthetic beauty.		

Compliance of Rule 45

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns : Monthly and Annual returns to be submitted in time as per statute	Annual Returns 2022-23: - Submitted on time and Monthly Returns for the Month of October - 2023 :- Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Shri Vijay Kumar Pandey Geologist:- Shri Anil Pradhan	Mining Engineer and Geologist employed as reported
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 12.2 Ha Dump – 5.39 ha Road & Infra.: 1.5 Hect, Mineral Storage : 4.09 ha Reclaimed and Rehabilitated : 0.59 ha Other (Plantation) : 0.5 Ha	
9d	Scrutiny of Annual return on afforestation	1300 saplings planted with 80% survival rate	
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 Lump- 45% to Below 51% Fe- 13406 Tonne Fines : 51% to Below 55% Fe- 20400 Tonne	

9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex Mine Lump- 45% to Below 51% Fe-Rs. 575.00 51% to Below 55% Fe- Rs.1200 Fines : 45% to Below 51% Fe-Rs. 550.00 51% to Below 55% Fe- Rs.757 Sale value : Lump- 45% to Below 51% Fe-Rs. 575.00 51% to Below 55% Fe- Rs.1200 Fines : 45% to Below 51% Fe-Rs. 550.00 51% to Below 55% Fe- Rs.757 CoP- Rs. 484.05/T.																			
9i	Scrutiny of Annual return on Fixed assets	FA= ₹ 314645050/-																			
9k	Scrutiny of Annual return on mining Machineries	<table border="1"> <thead> <tr> <th>Type of machinery</th> <th>Capacity of each type of machinery</th> <th>No. of machinery</th> </tr> </thead> <tbody> <tr> <td>BACK HOE</td> <td>1.10 cum</td> <td>4</td> </tr> <tr> <td>FRONT END LOADER</td> <td>1.7 cum</td> <td>1</td> </tr> <tr> <td>DOZER</td> <td>410.00 HP</td> <td>1</td> </tr> <tr> <td>DUMPER</td> <td>20.000 Tonnes</td> <td>8</td> </tr> <tr> <td>WATER TANKER</td> <td>12000 Litres</td> <td>1</td> </tr> </tbody> </table>	Type of machinery	Capacity of each type of machinery	No. of machinery	BACK HOE	1.10 cum	4	FRONT END LOADER	1.7 cum	1	DOZER	410.00 HP	1	DUMPER	20.000 Tonnes	8	WATER TANKER	12000 Litres	1	
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Details of Validations observed during current inspection and compliance position of earlier violation pointed out: -

Rule No.	Violation Observed	Compliance Status
Nil	Nil	Nil
Nil	Nil	Nil

Date:

Name: Ibrahim Sharief

Designation: Deputy Controller of Mines