

MCDR INSPECTION REPORT

I/34066/2024

General

S.N.	Particulars	Details
1	Name of the Mine	Netra manganese Ore Mine
	Date of Inspection:	20/10/2022
	Name of Inspecting Officer	Ibrahim Sharief
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	20.00 ha
3	Mine code	40MPR01010
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/634/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s. PACIFIC MINERALS PRIVATE LIMITED, 163BALARAM DEY STREET, KOLKATA
6	Village	KATANGJHARI
7	Taluka/Mandal	WARASBONI
8	District	BALAGHAT
9	Pin code	-
10	State	MADHYA PRADESH
11	Post Office	KATANGJHARI
12	Nearest Police Station	
13	Nearest Railway Station	BALAGHAT
14	Date of Grant of Mining Lease	
15	Date of Execution	18/08/1988
16	Date of opening of Mine	18/08/1988
17	Date of First Renewal, if applicable and its period & expiry	23/05/2002
18	Date of Second Renewal, if applicable and its period & expiry	05/02/2010
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 Veda Nand Roy, 163, Balaram Dey Street, Kolkata
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Abdesb Prasad Singh
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Jitendra Kumar Ramesh Rinayat
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Domendra Wasudeoji Gautam
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri S M Dandekar
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	30.05.2023
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	-
27	Mineral(s) granted in lease and approved for Mining	Manganese
28	Method of Mining (Opencast, Underground)	Opencast and Underground
29	Category (Fully Mechanized, Others or Manual)	Mechanised-A

30	Captive/Non-Captive	Non-Captive
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Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	10	10	
1b	Exploration over lease area for Geological axis 1 or 2.	Potential mineralized area to be explored in G1 Scale	Potential mineralized area is explored in G1 Scale	
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.	G1- 5.2 ha	G1- 5.2 ha	
1e	Balance reserves as on 01.04.2022	111- 438852 T	111- 438852 T	
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>Geology: - The lease area belongs to pre Cambrian Dharwarian meta sediments belonging to Dharwar sub group of Sausar Series. The Manganese horizon and the associated rocks of the sub group are well conformable to one another</p> <p>This ore band maintains a strike line of ENE-WSW with dips towards NNW of angles varying from 24 to 300. Average angle of dip is considered to be 250 The thickness of the ore body is about 7m to 9m. For the sake of calculation of reserves etc. average thickness is considered to be 5m. The total strike length of the IN SITU Formation is about 798m. This is substantiated by the exploration by drilling along the length to ascertain the continuity in depth and intermittent open cast pits.</p> <p>Exploration: - Entire potential mineralised area has been explored in G1 scale</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	North western side of lease area in pit-6	Development is carried out as proposed	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes proposal to maintain separate bench in OB and mineral	Yes separate bench in OB and mineral are maintained	
2c	Stripping ratio or ore to OB ratio	1 : 0.1		
2d	Quantity of topsoil generation in m ³	No proposal	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out as proposed		

Exploitation

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S.N	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed (2022-23)		Nil 4948.8 T-U/G 5418.6 T- Dump	
3c	Recovery of Salable/usable mineral from ROM production	100%-UG 30%- Dump	As proposed	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual method adopted segregation from ROM	Manual method adopted segregation from ROM	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal during the year	Nil	
3j	Provision of drilling & blasting in mineral benches	Jack Hammer with High Explosives	Jack Hammer with High Explosives	
3k	Provision of mining machineries in mineral benches	Wheel Loader- 1.1 cum Dumper- 10T Blast hole drill- 34mm	Machineries are deployed as proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 1.5 meters is suitable	Yes, 1.5 meters is suitable	
3m	Total area covered under excavation /pits	9.7208 Ha	4.5 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	
3o	Total area put in use under different heads at the end of year	12.06 Ha	6.42 Ha	
3p	Production of ROM mineral during last five-years period, as Applicable	17-18 18947	10801	
		18-19 12552	5008	
		19-20 13686	5108	
		20-21 13885	8279	
		21-22 12779	10366	
3q	General remarks of inspecting officer on method of mining etc.	Mining operations is being carried out as proposed		

Solid Waste Management-Dumping

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S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No top soil dump is proposed, Separate dump for OB to be maintained	OB dump observed	
4b	Location of topsoil, OB & mineral reject dumps	Within the lease area	Within the lease area	
4c	Number of Dumps within lease area and outside lease area	6 no. of dumps are there in the lease area	6 no. of dumps are there in the lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of Active & Alive dumps	6 dumps	6 dumps	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments 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	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
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.	No area is matured for reclamation		

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	Annual return on PMCP to be submitted in time	Annual return on PMCP submitted in time	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposal	Nil	
	ii) Afforestation done (ha)	No proposal	Nil	
	iii) No. of saplings planted during the year	50	125	
iv) Cumulative no. of plants	No proposal	1800 saplings planted so far.		

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	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	No proposal	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation is being done to improve aesthetic beauty. Water sprinkling arrangements are there to maintain working environment		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Rom produced to be dispatched	9955 Tones dispatched during the year	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	Below 25% Mn content and 25% to below 35% Mn content	As proposed	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Dump working is proposed to recover ore from old dumps		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	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)	OB dump proposal is there		

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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)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	50 saplings planted	125 saplings planted during the year	
8g	Survival rate	No proposal	About 70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Water tanker of 5KL capacity is provided for the purpose	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is quite satisfactory as plantation done in mine as well as near mines office.		

I/34066/2024 **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 20212-22: - Submitted on time and Monthly Returns for the Month of August - 2022:- Submitted on time			
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: -Shri DOMENDRA WASUDEOJI GAUTAM Geologist:- Shri Shailendra Kumar Patel			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: 4.52 Ha Dump – 1.36 ha Road & Infra.: 0.11 Ha, Mineral Storage : 0.41 Ha Other : 0.05 Ha			
9d	Scrutiny of Annual return on afforestation	125 saplings planted with 70% survival rate			Observed in the field
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 Below 25% Mn- 1910 T 25% to below 35% Mn- 1561.613 T 35% to below 46% Mn- 164.17 T			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine Below 25% Mn- Rs. 1703 25% to below 35% Mn- Rs. 7639 35% to below 46% Mn- Rs.15080. CoP- Rs. 3892.00/T.			
9i	Scrutiny of Annual return on Fixed assets	FA= Rs. 9677129/-			
9k	Scrutiny of Annual return on mining Machineries	Type of machinery	Capacity of each type of machinery	No. of machinery	
		BLAST HOLE DRILL	34.00 cum	9	
		FRONT END LOADER	1.1 cum	1	
		VENTILATION FAN	4.00 CUM/H	1	
		DUMPER	10.000 Tonnes	4	
		GENERATOR	50/25/55 KWH	3	
		HAULAGE	10 HP	3	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out: -
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Sl. No.	Violations pointed out	Status of compliance
	Nil	Nil

Name: Ibrahim Sharief

Designation: Deputy Controller of Mines