

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Madhavrao Sabre
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Shri Vedanand Roy, Nominated owner, Shri Yogesh Thakre , Mining Engineer.
4	Date of Inspection	10.11.2023
5	Previous Inspection date	06.01.2020

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Lougher Manganese Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	10.0 Ha (lease in forest area)
3	Mine code	40MPR01008
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/634/2011
5	Name of the lessee, Address, Phone, email and fax number	M/s Pacific Limited Baihar road, Balaghat (M.P) 163BALARAM DEY STREET, KOLKATA, Ph No.07632-248450, 9827187771
6	Village	Lougher
7	Taluka/Mandal	Paraswada
8	District	Balaghat
9	Pin code	481556
10	State	Madhya Pradesh
11	Post Office	Lougher
12	Nearest Police Station	Rupjher
13	Nearest Railway Station	Balaghat
14	Date of opening of Mine	26/01/1988
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	M/s Pacific Limited Baihar road, Balaghat (M.P) Email: vedanandroy@yahoo.in , Ph No.07632-248450, 9827187771
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Abdesh pratap singh, Ph No.07632-248450, 9827187771
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Hemant kumar kashyap M/s Pacific Limited Baihar road, Balaghat (M.P)
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Yogesh Thakre BE Mining .
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Appointed Mr. S.M Dandekar, Geologist Date of Appointment-01.02.2019
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Mining Plan under Rule 17(2) of MCR,2016 & 27 of MCDR, 2017 approved vide letter No No. MP/Balaghat/Manganese/RMP-55/2022-23dt 08.05.2023
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	-
22	Mineral(s) granted in lease and approved for Mining	Manganese
23	Method of Mining (Opencast, Underground)	Underground
24	Category (Fully Mechanized, Others or Manual)	Semi Mechanized/manual
25	Captive/Non-Captive	Non Captive

I/18100/2023 **Details about Mining Plan/ Review of Mining Plan etc.**

a) Letter No. and date of approval of mining plan	:	No. MP/Balaghat/Manganese/RMP-55/2022-23 dated 08.05.2023.
b) Letter No. and date of approval of review of mining plan	:	-
c) Condition while approving the MP/ RMP/ modification	:	-
d) Period of mining plan/ mining scheme in force:	:	2023-24 to 2027-28

PART III-MCDR Report details.

1. **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 (before 2021-22)	Yes	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2 (for 2021-22)	In 2021-22, 07 boreholes were proposed .	Nil	Violation issued.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)	Yes	Nil	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2021-22)	Yes, 2.82 Ha	Nil	2.82 Ha area is yet to be explored.
1e	Balance reserves as on 01.04.2023	At the beginning of the year 1.4.2021, reserves was 113512.5 tones and resources under 211 category of UNFC was 13500 tones.	Depletion during the year 2021-22 was 787.500 tones. Balance reserves as on 01.04.2022 is 112725 and 211 resources is 13500 tones.	Reserves / Resources figures as submitted in the annual return for 2021-22.
1f	General remarks of Inspecting officer on geology, exploration etc.	2.82 Ha area is yet to be explored.		

2. Development (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Underground development between E 434830 to 434560 and Northing 423303 to 423463 is proposed at Ist level (188.209 MRL)	Development of 70 m only is done	The deviation has been pointed out to lessee through violation letter.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Not proposed	U/g mine	Nil
2c	Stripping ratio or ore to OB ratio	Nil	Nil	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil, development proposed in ore zone.	Nil
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	It was proposed to develop 11 stopes during 2021-22 but nil stope developed for which violation issued.		

1/18100/2023 **3. Exploitation FY 2021-22**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Nil	U/g Mine	Nil
3b	Quantity of ROM mineral production proposed	In 2021-22, ROM production proposed was 8064 tones	In 2021-22, actual ROM production was 787.500 tones	Violation issued
3c	Recovery of Salable/usable minerals from ROM production	In 2021-22, saleable ore production proposed was 90% of ROM	100 % recovery	Nil
3d	Quantity of mineral reject generation	Not proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	Nil
3f	Quantity of sub-grade mineral generation	403.2 T	Nil	Violation pointed.
3g	Grade of sub-grade mineral generation	Not specified	Nil	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Yes	U/g drilling proposed.	Nil
3k	Provision of mining machineries in mineral benches	Yes	Yes	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	Nil
3m	Total area covered under excavation /pits (Ha.)	0.02 Ha	It is an underground mine	Nil
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	Nil
3o	Total area put in use under different heads at the end of year	Area under Mining 0.20 Ha, under dumps -.0.92 Ha ,Infrastructure 0.08 Ha, Roads 0.24 Ha, Mineral separation plant 0.10 Ha	Area under Mining 0.20 Ha, under dumps -.0.92 Ha ,Infrastructure 0.08 Ha, Roads 0.24 Ha, Mineral separation plant 0.10 Ha	Nil
3p	Production of ROM mineral during last five-years period, as Applicable	2022-23: 9468 tones 2021-22: 8064 tones 2020-21: 8210.72 tones 2019-20: 11733 tones 2018-19: 2242 tones	2022-23: 450.800 tones 2021-22: 787.50 tones 2020-21: 475.700 tones 2019-20: 487.500 tones 2018-19: 325.00 tones	Violation pointed for shortfall in production for 2021-22
3q	General remarks of inspecting officer on method of mining etc.	Violation pointed for shortfall in production for 2021-22		

4. Solid Waste Management-Dumping (FY2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Nil	Nil	Nil
4b	Location of topsoil, OB & mineral reject dumps	yes	01 OB dump is there	Nil
4c	Number of Dumps within lease area and outside lease area	01	One temporary waste dump within lease area	Nil

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4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Outside the UPL	Nil
4e	Number of Active & Alive dumps	Not proposed	Nil	Nil
4f	Number of dead dumps	Not proposed	Nil	Nil
4g	Number of dumps established	Not proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	Nil
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	It is an underground mine, development done in ore zone.		

5. Solid Waste Management-Backfilling (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Yes	Less development so, stopes not developed, so no backfilling	
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	Nil	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Nil		

6. Progressive Mine Closure Plan (FY 2021-22)

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	The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July report every year	The annual return on PMCP has been submitted timely.	Nil
6b	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
6c	Afforestation done (ha)	Nil	0.10	Nil
6d	No. of saplings planted during the year	Nil	25	Nil
6e	Cumulative no. of plants	Not specified	300	
6f	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Not Proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not proposed in RY	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	NA	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Not Proposed	Nil	Nil

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Proposed	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Not Proposed	25 saplings planted in RY	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not Proposed	Nil	Nil
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Carried out	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Nil		

7. Mineral Conservation (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade wise sorting done	Grade wise sorting done	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	Nil
7c	Different grade of mineral sort out at mine	35-45%	35-45%	Nil
7d	Any beneficiation process at mines	Screening and sorting	Screening and sorting	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Graded ore is dispatched.		

8. Environment (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	Nil
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	For OB	1 Temporary dump	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	In backfilling in U/g.	done	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not specified	300 saplings planted till date. It is dense forest area.	
8g	Survival rate	Not proposed	Survival rate : 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

9. Compliance of Rule 45 (2021-22)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return for 2021-22 was submitted on 29.06.2022 Monthly returns submitted .	Nil
9b	Scrutiny of Annual return for information on Mining Engineer,	Mining Engineer, Geologist and Manager have been employed in the mines.	Nil

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	Geologist and Manager																						
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Nil																				
9d	Scrutiny of Annual return on afforestation	25 Nos of sapling planted within lease area	Nil																				
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Yes, 25% to below 35% Mn 787.50Tonnes	Nil																				
9f	Scrutiny of Annual return on ROM stock and/or grade ore	In stock Below 25% Mn : 327.680 T 25% to below 35% Mn : 599.730 T 35% to below 46% Mn : 280.545 T																					
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	25% to below 35% Mn : Rs 9429/Tonne Cost of production: Rs 6969/ tonne	Nil																				
9i	Scrutiny of Annual return on Fixed assets	Not furnished.	Nil																				
9k	Scrutiny of Annual return on mining Machineries	<table border="1"> <tr> <td>AIR COMPRESSOR</td> <td>98.000 CUM/MN</td> </tr> <tr> <td>OTHER HEM MACHINERY</td> <td>28.000</td> </tr> <tr> <td>AIR COMPRESSOR</td> <td>36.000 CUM/MN</td> </tr> <tr> <td>PUMPS (ELEC.)</td> <td>45.000 L/MN</td> </tr> <tr> <td>GENERATOR (DIESEL)</td> <td>50.000 KWH</td> </tr> <tr> <td>PUMPS (ELEC.)</td> <td>3.000 L/MN</td> </tr> <tr> <td>PUMPS (ELEC.)</td> <td>7.500 L/MN</td> </tr> <tr> <td>VENTILATION FAN</td> <td>0.000 CUM/H</td> </tr> <tr> <td>PUMPS (NON-ELEC.)</td> <td>15.000 L/MN</td> </tr> <tr> <td>PUMPS (NON-ELEC.)</td> <td>3.000 L/MN</td> </tr> </table>	AIR COMPRESSOR	98.000 CUM/MN	OTHER HEM MACHINERY	28.000	AIR COMPRESSOR	36.000 CUM/MN	PUMPS (ELEC.)	45.000 L/MN	GENERATOR (DIESEL)	50.000 KWH	PUMPS (ELEC.)	3.000 L/MN	PUMPS (ELEC.)	7.500 L/MN	VENTILATION FAN	0.000 CUM/H	PUMPS (NON-ELEC.)	15.000 L/MN	PUMPS (NON-ELEC.)	3.000 L/MN	Nil
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