

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/8694/2023

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/BGT/MN/MPLN-73/NGP

Mine code : 40MPR01072

- (i) Name of the Inspecting : G005) SANJAY M. GIRHE
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06-APR-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : MIRAGPUR (4.20 HA.)
- (b) Registration NO. :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : MIRAGPUR
Taluka : KHAIRLANGI
Post office : MIRAGPUR
Pin Code : 481449
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 23-JUN-14
- (h) Weekly day of rest :
2. Address for : Village-Miragpur
correspondance : Tehsil-Khairlanji
District-Balaghat
3. (a) Lease Number : MPR2427
- (b) Lease area : 4.2
- (c) Period of lease : 20
- (d) Date of Expiry : 11-SEP-32
4. Mineral worked : MANGANESE ORE Main

I/8694/2023

5. Name and Address of the

Lessee : SHRI RAJENDRA DESHMUKH
AT&POST:- MIRAGPUR TAH:-
WARASEONI DIST:- BALAGHAT
BALAGHAT MADHYA PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 13-JAN-12
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During approved ROMP period 2017-18 to 2021-22 total 17 BHs were proposed	Total 04 BHs were drilled against this proposals	Violation u/r 11(1) pointed out during previous inspection dtd 06.04.2022
1b	Exploration over lease area for geological axis 1 or 2	During approved ROMP period 2017-18 to 2021-22 total 17 BHs were proposed	Four BHs were drilled for G1 axis	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration by lessee	Exploration carried out by lessee himself	Expenditure details not provided in approved ROMP
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed in approved ROMP	Area under G1 level-0.78 Ha, G2 level-0.20 Ha, 3.22 Ha to be explored	Total 17 boreholes proposed in current approved ROMP dtd 30.05.2022
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (121/122) - 60598 Resources in Tonnes Pre-Feasibility(22):11137 Resources/Reserves position as per approve ROMP dtd 12.01.2018	Reserves in Tonnes Proved (111) -26045 Bed Ore Probable (122) -1057 Flot Ore Resources in Tonnes Feasibility(211):68.36 Resources/Reserves position as per approve ROMP dtd 30.05.2022	Reserves/Resources re-estimated as per MEMC Rules,2015 provisions.
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	Lease area belongs to Mansar & Sitasoangi formation. Detailed exploration has been proposed in current approved ROMP document.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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I/8694/2023

2a	Location of development w.r.t.lease area	It was proposed to work in between N2392700 to N2392780 and E379570 to E379635	Most of the production acheived by float ore mining	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches in OB & ore proposed	Working carried out as per the proposals	Mostly ore win by flot ore mining
2c	Stripping ratio or ore to OB ratio	NA	NA	Details not provided in approved document
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	7200 M3 proposed during the year 2021-22	Around 1700 M3 OB generated during the year	Less OB generation due to very less production
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	In lease area having only single pit & its dimensions are Pit-1 (60 x 40 x 3)m working pit. Mn ore body width ranging from 2.5 to 3mts.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit-1	Working carried out at proposed location & also float ore mining	Only single working pit is locating in lease area. Old pit is partialy backfilled.
3b	Quantity of ROM mineral production proposed	2000 Tonne float ore production was proposed	1400 tonne float ore production acheived	
3c	Recovery of sailable/usable mineral from ROM production	About 90% recovery proposed	Recovery of ore acheived as per proposal	Rest 10% as sub-grade & mineral reject generation proposed.

I/8694/2023

3d	Quantity of mineral reject generation	100 Tonne proposed as mineral reject generation	No mineral reject generation reported in annual return	Mostly float ore mining carried out
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NA	Grade of mineral reject not furnished in approved document
3f	Quantity of sub grade mineral generation.	100 tonne proposed	60 tonnes	Total 5% of total ROM proposed as sub-grade generation
3g	Grade of sub grade mineral generation	Not proposed	NA	Not mentioned in approved document
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method proposed	Working carried out as per the proposals	Sorting of float ore being practised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA	Nil
3j	Provision of drilling and blasting in mineral benches	Not Proposed	NA	Manual working as category B mine proposed
3k	Provision of mining machineries in mineral benches	Not Proposed	Nil	Manual working as category B mine proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Manual working proposed	Manual working carried out	
3m	Total area covered under excavation/pits	1.04Ha proposed during approved plan period	0.42 Ha as per approved ROMP dtd 30.05.2022	Deviation due to more float ore mining carried out in approved plan period
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA	Not proposed in approved document

I/8694/2023

3o	Total area put in use under different heads at the end of year	As per the previous approved ROMP dtd 12.01.2018 Pits-1.25 Ha Infrastructure -0.01Ha Mineral Storage-0.29Ha Road-0.01Ha	As per the Annual Return for 2021-22 Pits-0.42 Ha Infrastructure-0.01Ha Mineral Storage-0.26Ha Road-0.01Ha	Deviation in working pit area due more float ore working in plan period
3p	Production of ROM mineral during the last five year period as applicable	2017-18-: 2000 MT 2018-19-: 2000 MT 2019-20-: 2000 MT 2020-21-: 2000 MT 2021-22-: 2000 MT	2017-18-: NA 2018-19-: NA 2019-20-: 2000 MT 2020-21-: 2000 MT 2021-22-: 1400 MT	Production details as per annual returns submitted online
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Manual method of mining was being practised/proposed during last approved document. Maximum 2.5-3.0m width of ore encountered in ML area.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposals, concurrent use for backfilling proposed	Partial backfilling carried out as proposed	During the 2021-22 only 1700 CuM overburden material generated
4b	Location of topsoil, OB and mineral reject dumps	No OB dumps in mining lease area	Nil	concurrent use of OB material for backfilling proposed
4c	Number of dumps within lease area and outside of lease area	No overburden dumps in mining lease area	No overburden dumps in mining lease area	concurrent use of OB material for backfilling proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No OB dumps in ML area	No OB dumps in ML area	Concurrent use of OB material for backfilling proposed

I/8694/2023

4e	Number of active and alive dumps.	No OB dumps in ML area	No OB dumps in ML area	Concurrent use of OB material for backfilling proposed
4f	Number of dead dumps.	No dead OB dumps in mining lease area	No dead OB dumps in mining lease area	Nil
4g	Number of dumps established.	No Proposals	No dead OB dumps in mining lease area	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	No dead OB dumps in mining lease area	No dead OB dumps in mining lease area
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	No dead OB dumps in mining lease area	Nil
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	There is no overbuden dumps in the mining lease area, hence scope of waste dump management doesnot exists. During the year 2021-22 only 1700 CuM OB generated.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	In pit-1 some of the area matured & ore exhausted for backfilling	In pit-1 some of the area matured & ore exhausted for backfilling	Nil
5b	Area under backfilling of mined out area	NA	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	Nil

I/8694/2023

5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	No area is fully reclaimed & rehabilitated in mining lease area
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Very few area is matured for backfilling in Pit-1, scope of reclamation by backfilling doesnot exist up to that extent.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st July of every year	Yes, submitted within time limit as per the provisions of Rule 26 of MCDR,2017	
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	Nil
6c	afforestation done (ha).	Total 30 nos of saplings planted during the year 2021-22	Total 30 nos of saplings planted during the year 2021-22	Nil
6d	No. of saplings planted during the year	Total 30 nos of saplings planted during the year 2021-22	Total 30 nos of saplings planted during the year 2021-22	Nil
6e	Cumulative no .of plants	NA	NA	Details not provided in approved documents.
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil

I/8694/2023

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposals	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil

I/8694/2023

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	Analysis reports were provided
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Scope of backfilling/reclamation & rehabilitation doesn't exist as very limited area has been matured/ore exhausted. Periodic monitoring is being carried out by outsourced consultant.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2000 Tonnes flot ore production proposed in 2021-22	1400 Tonnes of flot Manganese ore production carried out in 2021-22	During the year 2021-22 only float ore production was proposed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Manual sizing & sorting being carried out in ML area
7c	Different grade of mineral sorted out at mines.	Ferro-manganes and Silico manganese grades of Mn ore sorting proposed	Sizing & sorting carried out as proposed	
7d	Any beneficiation process at mines .	No Proposals	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Ferro-manganes and Silico manganese grades of Mn ore being sized and sorted as proposed. Grade wise stacking is done on earmarked locations.

I/8694/2023

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Nil	No top soil generation proposed during the year 2021-22
8b	Concurrent use or storage of topsoil	No Proposals	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	Nil	Concurrent use for backfilling proposed during the year
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	30 saplings planted during the year 2021-22	30 saplings planted during the year 2021-22	Nil
8g	Survival rate	Proposed as 80%	Achieved as 70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of suitable capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200 -300 saplings/year.

I/8694/2023

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. not submitted upto- March-22 A.R. submitted upto- 2021-22	Annual Return for the year 2021-22 submitted within time limit	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Nagpure, Mining Eng. and Shri Shenwai, Geologist appointed as per the provisions of Rule 55 of MCDR,2017	Mining eng and geologist were present during the mines inspections
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	As per the Annual Return for 2021-22 Pits-0.42 Ha Infrastructure-0.01Ha Mineral Storage-0.26Ha Road-0.01Ha	Nil
9d	Scrutiny of Annual return on afforestation	Given	Total 30 saplings were planted in 2021-22	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Below 25% Mn Grade: O/S-447.940 MT Despatch-1215.370 MT C/S-495.570 MT 25% to below 35% Mn Grade: O/S-27.640 MT Despatch-104.750 MT C/S-34.890 MT 35% to below 46% Mn Grade: O/S-41.070 MT Despatch-20.890 MT C/S-45.180 MT	Details as per annul returns on garde wise production, dispatches, etc
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Below 25% Mn Grade: Rs-3415.60/- 25% to below 35% Mn Grade: Rs-8914.55/- 35% to below 46% Mn Grade: Rs-9000.00/-	

I/8694/2023

9h	Scrutiny of Annual return on fixed assets	Not Given	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Not Given	Manual working as category B mine proposed	

I/8694/2023

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :**(SANJAY M. GIRHE)**

Indian Bureau of Mines