

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-34/NGP

Mine code : 40MPR01037

- (i) Name of the Inspecting : C005) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Sandesh Jain (Owners representative) & Shri Indr
Official with
Designation
- (iv) Date of Inspection : 21-DEC-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BOTEJHARI
- (b) Registration NO. :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : BOTEJHARI
Taluka : WARASEONI
Post office : KOCHWAHI
Pin Code : 481332
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01-APR-01
- (h) Weekly day of rest :
2. Address for : 678 SHYAMKUTI, HANUMANNAGAR
correspondance THARSA ROAD , KANHAN
NAGPUR (MSH)
3. (a) Lease Number : MPR0698
- (b) Lease area : 8.45
- (c) Period of lease : 20
- (d) Date of Expiry : 19-NOV-23
4. Mineral worked : MANGANESE ORE Main

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5. Name and Address of the

Lessee : SHRI VIJAY KHANDELWAL
678, SHYAMKUTI, HANUMAN
NAGAR, TARSAROAD, KANHAN
NAGPUR MAHARASHTRA
Phone:
FAX :

Owner : VIJAY KHANDELWAL
678 SHYAMKUTI, HANUMAN
NAGAR THARSA ROAD, KANHAN
NAGPUR NAGPUR MAHARASHTRA
Phone: 07102236038
FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	17-MAY-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	23-APR-09
		Modif.approved Mining Scheme	18-DEC-12
		Mining Scheme rule 12 MCDR1988	21-APR-15
		MP review under 17(1) MCR 2016	03-JAN-18

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not specified	G2-4 HA & unexplored 4.45 ha to be explored in G1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G2-4 HA & unexplored 4.45 ha to be explored in G1.	
1e	Balance reserve as on 01/04/20	Not specified	122-76925 t	
1f	General remarks of inspecting officers on geology, exploration etc			Regionally the area belongs to Mesoproterozoic age. In Balaghat district, the rock formation ranges in age from Archaean to Recent. The lease area has been explored with four core bore holes and one working pit, the logs of the pit and core bore holes are proving Mn Ore for average 4m thick ore body running in ENE-WSW direction which is strike of the area and dipping is 45 - 65 towards South east having main lithounit as Mn Ore band along with host rock mica schist which belongs to Sausar Group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	In central portion of lease area	In central portion of lease area
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	Details of Benches In ore In OB/Waste (i) Number of Benches Mechanised 1 4 (ii) Average height (meters) Mechanised 3 6
2c	Stripping ratio or ore to OB ratio	1:0.56	1:4.1
2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	4132	10000
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		During inspection & on scrutiny of the Drone digital output, it is observed that the mine pit has been extended upto 70m towards northern side of ML in between TP 3 - TP 7 and upto 100 m towards eastern side of ML in between TP 12 - TP 25 which was not as per the approved proposals. Violation pointed out under rule 11(1) of MCDR.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	7376 t	2435 t	Violation pointed out under rule 11(1) of MCDR.

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3c	Recovery of sailable/usable mineral from ROM production	Not specified	80%
3d	Quantity of mineral reject generation	Not specified	100 T
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	10
3f	Quantity of sub grade mineral generation.	Not proposed	Nil
3g	Grade of sub grade mineral generation	Not proposed	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	drilling & blasting in mineral benches proposed	drilling & blasting in mineral benches done

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3k	Provision of mining machineries in mineral benches	proposed	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 2.500 CUM 1 Non Electrical Opencast BACK HOE 0.900 CUM 1 Non Electrical Opencast DUMPER 25.000 TONNE 5 Non Electrical Opencast FRONT END LOADER 1.700 CUM 1 Non Electrical Opencast WATER TANKER 6000.000 LITRE 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Mechanised 1 4 (ii) Average height (meters) Mechanised 3 6 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 32 28
3m	Total area covered under excavation/pits	Not specified	4.56 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:4.1
3o	Total area put in use under different heads at the end of year	Not specified	4.98 ha area already broken
3p	Production of ROM mineral during the last five year period as applicable	2018-19 14365 2019-20 16625 2020-21 16625 2021-22 7376	2018-19 12465 2019-20 12914 2020-21 6959 2021-22 2435

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3q	General remarks of inspecting officers on method of mining etc.	During inspection & on scrutiny of the Drone digital output, it is observed that the mine pit has been extended upto 70m towards northern side of ML in between TP 3 - TP 7 and upto 100 m towards eastern side of ML in between TP 12 - TP 25 which was not as per the approved proposals. Violation pointed out under rule 11(1) of MCDR.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB & mineral proposed.	Separate dumping of OB & mineral done.	
4b	Location of topsoil, OB and mineral reject dumps	N1000-N1300 &E1000-E1400	N1000-N1300 &E1000-E1400	
4c	Number of dumps within lease area and outside of lease area	02	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	garland drains=100*1*1	

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4i	Length of Retaining wall or garland drain all along dumps	Nil	garland drains=100*1*1	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			02 OB dumps maintained within the lease outside UPL.

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.	Not proposed	Not done	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No Proposal given and hence no comments on backfilling, reclamation etc.

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).	Yes	Submitted	

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6b	Area available for rehabilitation (ha) .	No proposals	NA
6c	afforestation done (ha).	No proposals	NA
6d	No. of saplings planted during the year	No proposals	NA
6e	Cumulative no .of plants	No proposals	NA
6f	Any other method of rehabilitation	No proposals	NA
6g	Cost incurred on watch and care during the year	No proposals	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	NA

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	As per proposal

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Manual sorting	

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7c	Different grade of mineral sorted out at mines.	No proposal	. Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE) Grades (% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) Below 25% Mn 8185.560 841.000 385.810 8640.750 4360.55 (b) 25% to below 35% Mn 5267.660 719.000 2340.580 3646.080 10759.70 (c) 35% to below 46% Mn 2553.270 381.000 0.000 2934.270 15080.00 (d) 46% Mn and above	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral dispatch after grade wise sorting being carried out in the lease.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of topsoil not proposed	Nil	

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8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	overburden waste rock dumping proposed	Separate dumps for overburden waste rock maintained	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	overburden waste rock dumping proposed	overburden waste rock dumping done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Not given	
8g	Survival rate	Not proposed	NA	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area is moderate.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR submission online	MR and AR submitted online	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not given	Violation pointed out under rule 55 of MCDR.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	<p>Lease area (surface area) utilisation as at the end of year (hectares)</p> <p>Under forest Outside forest Total</p> <p>(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000</p> <p>(ii) Covered under current (O/C) Workings 0.000 4.230 4.230</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 1.840 1.840</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.400 0.400</p>
9d	Scrutiny of Annual return on afforestation	given	<p>Within lease area (b) Outside lease area</p> <p>(i) Number of trees planted during the year 0 250</p> <p>(ii) Survival rate in percentage 0.00 90</p>
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	<p>Mineral Rejects generated with grades (tonnes)</p> <p>a. Quantity 100 b. Grade 10</p>

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE)</p> <p>Grades (% of Mn content)</p> <p>Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Dispatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in ? Per Tonne)</p> <p>(a) Below 25% Mn 8185.560 841.000 385.810 8640.750 4360.55</p> <p>(b) 25% to below 35% Mn 5267.660 719.000 2340.580 3646.080 10759.70</p> <p>(c) 35% to below 46% Mn 2553.270 381.000 0.000 2934.270 15080.00</p> <p>(d) 46% Mn and above 7</p>
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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE) Grades (% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) Below 25% Mn 8185.560 841.000 385.810 8640.750 4360.55 (b) 25% to below 35% Mn 5267.660 719.000 2340.580 3646.080 10759.70 (c) 35% to below 46% Mn 2553.270 381.000 0.000 2934.270 15080.00 (d) 46% Mn and above 7
9h	Scrutiny of Annual return on fixed assets	given	Value of Fixed Assets (in Rs.) 13600000
9k	Scrutiny of Annual return on mining machineries	Given	BACK HOE 2.500 CUM 1 no BACK HOE 0.900 CUM 1no DUMPER 25.000 TONNE 5 nos FRONT END LOADER 1.700 CUM 1no WATER TANKER 6000.000 LITRE 1 no

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	31-MAR-23				
MCDR17 Rule 55(1) (3)	31-MAR-23				

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines