

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Nagpur regional office

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

Mine code : 40MPR01037

- (i) Name of the Inspecting : **SQ32**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Ajay Khandelwar (Owners representative) & Shri R
Official with
Designation
- (iv) Date of Inspection : 07-AUG-21
- (v) Prev.inspection date : 26-APR-10

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BOTEJHARI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (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

5. Name and Address of the

Lessee : SHRI VIJAY KHANDELWAL
 678, SHYAMKUTI, HANUMAN
 NAGAR, TARSA ROAD, 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	na	
1b	Exploration over lease area for geological axis 1 or 2	no proposal	no proposal	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	no proposal	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	no proposal	nil	
1e	Balance reserve as on 01/04/20		121- 46658,221- 5600	reserves as on 01/04/21
1f	General remarks of inspecting officers on geology, exploration etc			ore body of 3mtr thickness has been intercepted in area upto 370 mtr strike length in last drilling done upto depth of 286mtr MRL.reserves and resources are based on this.area slopes north to south.mineral bearing rock is braunite.reserves are estimated in 111.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	pit 1	pit 1	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	top soil and waste	top soil and waste	
2c	Stripping ratio or ore to OB ratio	1:3.5	1:5	
2d	Quantity of topsoil generation in m3	1662m3	1100m3	
2e	Quantity of overburden generation in m3	50121m3	42100m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			a well developed large pit is seen in mines area. a large dump is also available 1.backfilling has been done in some portion of the pit.benches have been developed in pit in waste and mineral.low production observed for which violation is pointed out.violation pointed out for not mantaining uptodate plans and sections.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	15139	6959	

3c	Recovery of sailable/usable mineral from ROM production	yes	done	
3d	Quantity of mineral reject generation	756	-	
3e	Grade of mineral rejects generation and threshold value declared.	<10%	<10%	
3f	Quantity of sub grade mineral generation.	796	1100	15% grade
3g	Grade of sub grade mineral generation	>10%	15%	
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no	nil	
3j	Provision of drilling and blasting in mineral benches	yes	done	
3k	Provision of mining machineries in mineral benches	yes	done	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	ht is suitable	suitable	6mtrs
3m	Total area covered under excavation/pits	4.54	4.3	

3n	Ore to OB ratio for the pit/mine during the year.	1:3.5	1:5	
3o	Total area put in use under different heads at the end of year	7.8 hect	5.4 hect	
3p	Production of ROM mineral during the last five year period as applicable	18-19-12617 19-20-15139 20-21-15139	19-20-12914 20-21-6959	
3q	General remarks of inspecting officers on method of mining etc.			pit is well devolped in 6 mtr benches.mines is facing quality problems ,low grade is generated in mines. violation is pointed out for low production done in mines.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes top soil and ob	top oil and ob	top soil is used.ob used for backfilling.
4b	Location of topsoil, OB and mineral reject dumps	backfilling planned.	backfilling	
4c	Number of dumps within lease area and outside of lease area	inside one dump.	inside one dump.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	nil	nil	

4f	Number of dead dumps.	01	01	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	NP	Drain	
4i	Length of Retaining wall or garland drain all along dumps	NP	Drain is seen along dump approx 200 mtr	
4j	Number of settling ponds	NP	Nil	
4k	Specific comments of inspecting officer on waste dump management			One old dump exists. Drain is seen alongwith it.

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.	FULL	FULL	
5b	Area under backfilling of mined out area	--	--	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Store & use	Store & use	Temporary
5d	Total area fully reclaimed and rehabilitated	Nil	3.2790 hect.	As per last plan

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling is being done in mine pit.
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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).		Not submitted	violation issued for same.
6b	Area available for rehabilitation (ha) .	No proposal for mined out benches	NIL	
6c	afforestation done (ha).	No proposal for mined out benches	NIL	
6d	No. of saplings planted during the year	No proposal for mined out benches	NIL	
6e	Cumulative no .of plants	No proposal for mined out benches	NIL	
6f	Any other method of rehabilitation	No proposal for mined out benches	NIL	
6g	Cost incurred on watch and care during the year	No proposal for mined out benches	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-	Pit area4.3 hect	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	planned	being done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	25 Nos.	50 Nos.	survival rate observed is poor. less than 50%. violation is pointed out for same.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	afforestation done.	barrier plantation on barrier	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	not proposed	nil	

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling is being done in the mines. barrier plantation is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	seperation into grade	grade	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	(a) Below 25% Mn (b) 25% to below 35% Mn (c) 35% to below 46% Mn	Gradewise sorting	Return done
7d	Any beneficiation process at mines .	no	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The ore is sorted into grades. Low grade is encountered.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Store & Use	Store & Use	
8b	Concurrent use or storage of topsoil	Store & Use	Store & Use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	For mineral & waste	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes planned	done	Backfilling is done
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	planned	done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline not given Additional = 25 Nos.	50 Nos.	
8g	Survival rate	80%	40 %	violation pointed out for low survival rate
8h	Water sprinkling on roads to control airborne dust	yes	done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Barrier plantation has been done in Mines.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	not given		violation issued for not appointing and not providing information both.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) Workings 4.230 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 1.840 (vi) Other Purpose (Road, office etc) 0.400 0.400	details are given.	
9d	Scrutiny of Annual return on afforestation	100 nos	50 nos planted.	survival rate poor.violation issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1100 t.,15 % MN	details are given	sub grade mineral

9f	Scrutiny of Annual return on ROM stock and/or graded ore	stock of ore at mines: 15850 T	details given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	exmine price:Below 25% Mn - 3442.00 (b) 25% to below 35% Mn - 6239.00 (c) 35% to below 46% Mn - 10000.00 cost of production 2530 Rs	details are given	
9h	Scrutiny of Annual return on fixed assets	not given		violation is issued.
9k	Scrutiny of Annual return on mining machineries	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 Opencas	details of machinery is provided.	

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
MCDR17	Rule 11(1)	12-OCT-21	28-JAN-22				
MCDR17	Rule 26(2)	12-OCT-21	28-JAN-22				
MCDR17	Rule 31(1)	12-OCT-21	28-JAN-22				
MCDR17	Rule 45(4)	12-OCT-21	28-JAN-22				
MCDR17	Rule 55(1) (1	12-OCT-21	28-JAN-22				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines