

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN-307/NGP

Mine code : 40MSH14029

- (i) Name of the Inspecting : **219**) **Rajesh M Khadse**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : PAISHUNI BISEN MINE AGENT
Official with
Designation
- (iv) Date of Inspection : 25-Jun-22
- (v) Prev.inspection date : 18-Aug-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KOTHULNA (24.00H)**
- (b) **Registration NO.** : **IBM/5036/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : Kothulna
Taluka : Saoner
Post office : Kothulna
Pin Code : 441101
FAX No. :
E-mail :
Phone : 9373112496
- (f) Police Station :
- (g) First opening date : 30-Oct-05
- (h) Weekly day of rest : SUN
2. Address for : "MANGLE NIWAS"NEAR POWER HOUSE,
correspondance CHHINDWARA ROAD, AT & POST - SAONER
DISTT. - NAGPUR
3. (a) Lease Number : MSH0337
- (b) Lease area : 24
- (c) Period of lease : 30
- (d) Date of Expiry : 24-Oct-35
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SHUBHNAM MINERAL ENTERPRISES
NAGPUR MAHARASHTRA

Phone:

FAX :

Owner : DADARAO M. MANGLE

MANGLE NIWAS, NEAR POWER
HOUSE, CHHINDWARA ROAD,
SAONER NAGPUR MAHARASHTRA

Phone:

FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07-Oct-05
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	17-Apr-12
		Mining Scheme rule 12 MCDR1988	07-Jul-16
		MP review under 17(1) MCR 2016	02-Mar-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NA
1b	Exploration over lease area for geological axis 1 or 2	Six Boreholes	Six Boreholes	NA
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency: SS Mineral Exploration & Allied Geoservices Expenditure (Lakh): 9.05	Exploration Agency: SS Mineral Exploration & Allied Geoservices Expenditure (Lakh): 9.05	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	140277	140277	NA
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	NIL

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E: 294800 to 295000 N: 2369800 to 2369600	E: 294800 to 295000 N: 2369800 to 2369600	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil : Nil 6/6 m Benches in OB & Mineral	Top Soil : Nil 6/6 m Benches in OB & Mineral	
2c	Stripping ratio or ore to OB ratio	1:0.62	1:0.62	NA

2d	Quantity of topsoil generation in m3	0	0	0
2e	Quantity of overburden generation in m3	13178	35	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	18005	1150	
3c	Recovery of sailable/usable mineral from ROM production	1160	335.310	
3d	Quantity of mineral reject generation	1800	360	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral Reject Grade: Below 10% Threshold Value: 10%	Mineral Reject Grade: Below 10% Threshold Value: 10%	
3f	Quantity of sub grade mineral generation.	-	-	
3g	Grade of sub grade mineral generation	+10 to -20%	+10 to -20%	

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.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes using Jack Hammer	Yes using Jack Hammer
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes (6m)	Yes (6m)
3m	Total area covered under excavation/pits	2.8850	2.8850
3n	Ore to OB ratio for the pit/mine during the year.	-	-
3o	Total area put in use under different heads at the end of year	Mining Pit: 2.8850 Ha Mineral Storage: 0.9120 Ha Roads: 1.3296 Ha Infrastructure : 0.0268 Ha OB/Waste Dump: 0.4436 Ha	Mining Pit: 2.8850 Ha Mineral Storage: 0.9120 Ha Roads: 1.3296 Ha Infrastructure: 0.0268 Ha OB/Waste Dump: 0.4436 Ha

3p	Production of ROM mineral during the last five year period as applicable	Year Production (Ton)	Year Production (Ton)
			2017-18 0.00
			2018-19 1540.830
	2017-18 1160		2019-20 0.00
	2018-19 1160		2020-21 71
	2019-20 1160		2021-22 1150
	2020-21 1160		
	2021-22 1160		
	Year Production (Ton)		
	2017-18 1160		
	2018-19 1160		
	2019-20 1160		
	2020-21 1160		
	2021-22 1160		

3q	General remarks of inspecting officers on method of mining etc.	NA	NA	NA
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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)	Yes	Yes	Top Soil Quantity : Nil
4b	Location of topsoil, OB and mineral reject dumps	Grid: E 294800 to E295200 and N2370200 to N2370000	Grid: E 294800 to E295200 and N2370200 to N2370000	
4c	Number of dumps within lease area and outside of lease area	Within Lease Area: Two (2) Dumps Outside Lease Area: Nil	Within Lease Area: Two (2) Dumps Outside Lease Area: Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump 1: 300mRL OB Dump 2: 336.121 MRL UPL: 285mRL	OB Dump 1: 300mRL OB Dump 2: 336.121 MRL UPL: 285mRL
4e	Number of active and alive dumps.	Two (2)	Two (2)
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.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	4000 m	3500 m
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil

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.	NA	NA	NA
5b	Area under backfilling of mined out area	NA	NA	NA

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	NA
5d	Total area fully reclaimed and rehabilitated	NA	NA	NA
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	

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).	NA	NA	

6b	Area available for rehabilitation (ha) .	i) Area available for rehabilitation (ha) : Nil ii) Afforestation done (ha) : 0.0500 iii) No. of saplings planted during the year: 60 iv) Cumulative no. of plants: 500 v) Any other specific method of rehabilitation : NA vi) Cost incurred on watch & care during the year:	i) Area available for rehabilitation (ha) : Nil ii) Afforestation done (ha) : 0.0500 iii) No. of saplings planted during the year: 60 iv) Cumulative no. of plants: 500 v) Any other specific method of rehabilitation: NA vi) Cost incurred on watch & care during the year:
6c	afforestation done (ha).	NA	NA
6d	No. of saplings planted during the year	NA	NA
6e	Cumulative no .of plants	Yes	Yes
6f	Any other method of rehabilitation	--	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area	Grade-wise sorting within lease area
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Total No. of Additional Plantation: 60 Nos. (in FY 2022-23)	Total No. of Additional Plantation: 60 Nos. (in FY 2022-23)
7c	Different grade of mineral sorted out at mines.	i) Below 25% Mn ii) 25% to below 35% Mn iii) 35% to below 46% Mn	i) Below 25% Mn ii) 25% to below 35% Mn iii) 35% to below 46% Mn
7d	Any beneficiation process at mines .	No	No
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top Soil : Nil	Top Soil : Nil	
8b	Concurrent use or storage of topsoil	Top Soil : Nil	Top Soil : Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dump No. Area (m2) Avg. area of Dump Height of Dump (m) Quantity in Dump (m3) Top Bottom OB-1 350.29 940.40 645.34 12 7744.14 OB-2 1984.56 3496.03 2740.29 6 16441.77 Total 2334.85 4436.43 3385.63 24185.91	Dump No. Area (m2) Avg. area of Dump Height of Dump (m) Quantity in Dump (m3) Top Bottom OB-1 350.29 940.40 645.34 12 7744.14 OB-2 1984.56 3496.03 2740.29 6 16441.77 Total 2334.85 4436.43 3385.63 24185.91
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA at this level, mining is under operation	NA at this level, mining is under operation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA at this level, mining is under operation	NA at this level, mining is under operation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total No. of Existing Plants: 500 Nos. (till March 2022)	Total No. of Existing Plants: 500 Nos. (till March 2022)
8g	Survival rate	80-85%	80-85%

8h	Water sprinkling on roads to control airborne dust	Yes, Water tankers are used for regular water sprinkling in terms of Dust suppression.	Yes, Water tankers are used for regular water sprinkling in terms of Dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto May 2022 A.R. Submitted upto 2021-22		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given in A.R		

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 :

(Rajesh M Khadse)

Indian Bureau of Mines