

**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 : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. Ansari , Mine Manager, Shri S.K.Jain
Official with
Designation
- (iv) Date of Inspection : 03/12/2016
- (v) Prev.inspection date : 13/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KOTHULNA (24.00H)**
- (b) **Registration NO.** :
- (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** : 30/10/2005
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : "MANGLE NIWAS"NEAR POWER HOUSE,
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** : 24/10/2035
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	07/10/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	17/04/2012
	:	Mining Scheme rule 12 MCDR1988	07/07/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	6 boreholes 248 m	
1b	Exploration over lease area for geological axis 1 or 2	Not available	6 boreholes 248 m	No exploration done as per approved Mining Scheme
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	S.S. Mineral Exploration and allied Geoservices, Nagpur	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Mn- 142466	Mn-141437	
1f	General remarks of inspecting officers on geology, exploration etc			Manganese Ore body observed to be continued further at depth

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No.1 and 2	Pit No.1 and 2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Two	Two	
2c	Stripping ratio or ore to OB ratio	1:10	1:10	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	54339 m3	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No proposed target of exploration achieved by the lessees
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	385 cum	Nil	
3b	Quantity of ROM mineral production proposed	500	300	Nil
3c	Recovery of sailable/usable mineral from ROM production	50%	100%	
3e	Grade of mineral rejects generation and threshold value declared.	ukyhhfv0	bb	nil
3f	Quantity of sub grade mineral generation.	385 cum	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
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.	Not Proposed	Not Applicable	
3j	Provision of drilling and blasting in mineral benches	Wagon drill	Jack Hammer	
3k	Provision of mining machineries in mineral benches	Wagon Drill Tipper	Small JCB has been used as and when require.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	20819.61 sqm	7120 sqm	
3n	Ore to OB ratio for the pit/mine during the year.	1:10	1:6.53	
3o	Total area put in use under different heads at the end of year	9.812Ha	6.5686 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13-535 tonnes 2013-14-540 tonnes 2014-15-536 tonnes 2015-16-8325 tonnes	2012-13-132.70 tonnes 2013-14-243 tonnes 2014-15-625 tonnes 2015-16-1029 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			No production target achieve as per market demand. As per proposal in approved scheme of mining, it is 'A' mines but as per present scenario work has been like manual mine

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil available in the area. Reject generated will be stacked separately.	No top soil. No reject generated	

4b	Location of topsoil, OB and mineral reject dumps	Overburden dump at Southern side of lease As per mining plan 3872 cum reject is to be generated during the period of 2015-16 to 2019-20	No topsoil dump in the area. 2 Nos. of Overburden dumps are in the lease area, however no reject dump available in the area	
4c	Number of dumps within lease area and outside of lease area	Within lease - 02 Outside lease- Nil	Within lease -02 Outside lease- Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northern Side	Northern Side	
4e	Number of active and alive dumps.	2 Nos	2 Nos	
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	Not Applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Not Applicable	
4j	Number of settling ponds	One	One settling pond is there where pumping has been done as and when required	
4k	Specific comments of inspecting officer on waste dump management			Area of waste dump is around 4 hectrs

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not Proposed	Not Applicable	
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed as no top soil which supports crop exists in lease area.	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	area not proposed for reclamation and rehabilitation	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Presently external dumping is being carried out. No stage of back filling is yet started..

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposal Given	The Annual report was submitted for the year 2015-16	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	3.37 Hect	3.00 hect	
6d	No. of saplings planted during the year	50 nos of trees	Planted around 50 nos of trees	
6e	Cumulative no .of plants	100	around 50	
6f	Any other method of rehabilitation	Nil	Nil	

6g	Cost incurred on watch and care during the year	not Proposed	Not available
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	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.	Plantation has been done, no proposal for backfilling.	Plantation has been done, no proposal for backfilling.	The proposed measures for progressive closure of mine are being complied in the mine.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal for gradewise given	After gradewise sorting ROM is despatched from the mine	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Mn +38 +33 Fe - 9% 10% SiO ₂ -- 11 14% Al ₂ O ₃ 3% max 3% max P 0.18 max 0.22 max	As per proposal	
7d	Any beneficiation process at mines	No beneficiation proposed	No beneficiation.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no problem in respect of conservation of mineral. All ROM production used as different grade as mentioned above.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Not Applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock was proposed	As per column 4 b above i.e. Solid Waste Management-Dumping	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information given. Area about 3.2952 m2 under plantation	Plantation in the area has been done	
8g	Survival rate	50%	30%	
8h	Water sprinkling on roads to control airborne dust	Proposed	water Sprikling on road as and when required	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			In order to increase the aesthetic beauty, there is no specific proposal in this document. However general aesthetic beauty is fair

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October 2016 A.R. submitted up to March 2015	violation observed and pointed for rule 45(5) of MCDR 1988 Monthly return of September, October 2016 1. ex-mine price of the mineral not reported-As per section 45 of MCDR Rule 1988, where the sale has not occurred, the latest average sale price published monthly by the IBM for a particular mineral for a particular State shall be taken as the ex-mine price of the mineral for the purposes of reporting. 2. ROM production not shown.	Annual return - 2015-16. 1. Email address columns left blank. 2. Lease area (surface area) utilization as at the end of year (hectares) and Employment & Wages- page missing (Part-I-12 and Part- II) 3. Depreciation on fixed assets are not mentioned/ not correctly filled up. (Part-II A- Capital Structure) 4. Quantity and cost of Explosives and other material is not reported. (Consumption of Material- Part- III) 5. Type of ore, Reserves and Resources estimated at the end of the year is not mentione
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	As per given detailed in scrutiny letter	6. ROM is not reported. (Part-V- 4.2 (B) and Part-VI-1) 7. Under Grade-wise Production, Dispatches, Stocks and Ex-mine prices of Processed ore table ex- mine price not calculated correctly.(Part VI-2) 8. Under Sales/ Dispatches effected for Domestic Consumption and for Exports table figures in total are not shown correctly. (Part-VII-4) 9. Overhead cost, Royalty not calculated correctly.(Part-VII) 10. Number of trees planted during the year, Survival rate in percentage not filled up. (Part V Pa	

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
Rule 13(1)	28/12/2016		Rule 13(1)	28/12/2016	23/03/2017
Rule 45(5)	28/12/2016		Rule 45(5)	28/12/2016	23/03/2017
Rule 45(7)	28/12/2016		Rule 45(7)	28/12/2016	23/03/2017

Date :
(S. M. DORLE)

Indian Bureau of Mines