

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN-319/NGP

Mine code : 40MSH14046

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri S.R.Nair, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 12/09/2017
- (v) Prev.inspection date : 19/03/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHANDARBODI (17.51 HA.)**
- (b) **Registration NO.** : **IBM/17993/2014**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : BHANDARBODI
Taluka : RAMTEK
Post office : BHANDARBODI
Pin Code : 441106
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 20/12/2012
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number : MSH0401
- (b) Lease area : 17.51
- (c) Period of lease : 20
- (d) Date of Expiry : 08/10/2032
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S TIRUPATI MINERALS
PRITI NURSING HOME, SHIV
NAGAR, AT & PO- TUMSAR,
DISTT.-BHANDARA (MS)
BHANDARA MAHARASHTRA
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28/07/2008
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	01/12/2016
		MP review under 17(1) MCR 2016	07/04/2017

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	Nil	Nil.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal for exploration at G1 level	As per proposal	
1e	Balance reserve as on 01/04/20	81404	25667	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration as per proposal has been done

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E/W-337899 338275	E/W-337900 - 338275	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:7	1:18	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	26250 m3	120805 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	At present no topsoil generated. Only overburden generated
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos pits proposed for production	As per proposal	
3b	Quantity of ROM mineral production proposed	27632 MT	20800 MT	
3c	Recovery of sailable/usable mineral from ROM production	21000 MT	16641 MT	
3d	Quantity of mineral reject generation	1104 MT	1340 MT	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	6%	
3f	Quantity of sub grade mineral generation.	Nil	2899 MT	
3g	Grade of sub grade mineral generation	7% of MN	6.5% of MN	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Only jigging and screening adopted	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	

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	Yes
3m	Total area covered under excavation/pits	Pit- 5.00 Hect	As per Proposal
3n	Ore to OB ratio for the pit/mine during the year.	1:7	1:19
3o	Total area put in use under different heads at the end of year	Pit- 4.280 Hect Waste/reject- 3.5 hect Others-4.18 Hect Total -11.96 Hect	As per proposal.
3p	Production of ROM mineral during the last five year period as applicable	Yr 2014-15- 2353 MT Yr 2015-16- 3529 MT Yr 2016-17- 2100 MT	Yr 2014-15-14726 Yr 2015-16-16641 Yr 2016-17-10800
3q	General remarks of inspecting officers on method of mining etc.		Due to market condition production not achieved.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	North west of lease area as shown in plan	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	North waste of lease area as shown in plan	As per proposal	

4c	Number of dumps within lease area and outside of lease area	3 Numbers	3 Numbers	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North-west and South east	As per proposal	
4e	Number of active and alive dumps.	Nil	2+1 Mineral Reject	
4f	Number of dead dumps.	Nil	One	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Garland drain prepared	
4i	Length of Retaining wall or garland drain all along dumps	Nil	650 m	
4j	Number of settling ponds	Nil	2 Nos	
4k	Specific comments of inspecting officer on waste dump management			A dump showing in plan is found in the lease area

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed for plantation	As per proposal	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No stage for backfilling at present

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 proposed	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	50	50	
6e	Cumulative no .of plants	150	120	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
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	Proposed	As per proposal planted around 500 nos of trees.	
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	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			At present no action taken on PMCP

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise Sorting	As per proposal gradewise sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Yes	Yes	
7d	Any beneficiation process at mines	Screening and jigging	As per proposal screening and jigging	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Gradewise sorting has been done at mine

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil has been kept separately		
8b	Concurrent use or storage of topsoil	Will be used at the time of reclamation	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Kept Separately	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	After full extraction of minerals	As per proposal	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	After full extraction of minerals	As per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	500 plants already exist in the lease area.	
8g	Survival rate	Nil	70%	
8h	Water sprinkling on roads to control airborne dust	Nil	During the dry season to avoid dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns submitted timely		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not appointed	Nil	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information given	Found correct	
9d	Scrutiny of Annual return on afforestation	Information Given	Information found correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given	Found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information given	Found correct
9k	Scrutiny of Annual return on mining machineries	Information given	Found correct

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 27(1)	17/11/2017		Rule 27(1)	17/11/2017	
Rule 55	17/11/2017		Rule 55	17/11/2017	

Date :

(S. M. DORLE)

Indian Bureau of Mines