

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN-308/NGP

Mine code : 40MSH14030

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Deependra
Official with
Designation
- (iv) Date of Inspection : 02/12/2016
- (v) Prev.inspection date : 10/02/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KIRNAPUR (2.88H)**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : NAGPUR
- Village : KIRNAPUR
- Taluka : SAONER
- Post office : KOTHURNA
- Pin Code : 441001
- FAX No. :
- E-mail :
- Phone : 9822462552
- (f) **Police Station** :
- (g) **First opening date** : 19/11/2005
- (h) **Weekly day of rest** : SUN
2. **Address for** : 58, THE MALL, CANTONMENT
correspondance KAMPTEE
3. (a) **Lease Number** : MSH0366
- (b) **Lease area** : 2.88
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 17/11/2025
4. **Mineral worked** : MANGANESE ORE Main

5. Name and Address of the

Lessee : RAVINDRA NATH
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Owner : RAVINDRA NATH
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : RAVISHANKAR GHANGARE, Full Time
 Qualification : DIP. IN MINING & MINE SURVEYING
 Appointment/ : 20/11/2005
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/01/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30/08/2011
		Mining Scheme rule 12 MCDR1988	14/07/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Not Applicable	
1b	Exploration over lease area for geological axis 1 or 2	3 Bore holes	Not drilled	
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	Nil	Not Applicable	
1e	Balance reserve as on 01/04/20	Balance reserve Proposed 17409 MT	Actual reserve position as on 01.04.2016 is 15609.95 MT	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Proposed	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0.99	1.099	
2d	Quantity of topsoil generation in m3	No topsoil proposed to be generated	No topsoil	
2e	Quantity of overburden generation in m3	2077 m3	2166 m3	

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	Pit I, II, III, IV	Pit I
3b	Quantity of ROM mineral production proposed	2077 cum ROM proposed from Pit No. I, II, III & IV	1799 tonnes
3c	Recovery of sailable/usable mineral from ROM production	5295 tonnes	1799 tonnes
3d	Quantity of mineral reject generation	312 cum	225 cum
3e	Grade of mineral rejects generation and threshold value declared.	10%	10% to 30%
3f	Quantity of sub grade mineral generation.	No sub grade Generated	Not Applicable
3g	Grade of sub grade mineral generation	No sub grade generation	Not Applicable
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	Drilling and blasting is to be done Jack Hammer / Wagon Drill	As per proposal
3k	Provision of mining machineries in mineral benches	Proposed Tipper and Loader	As per proposal Tipper and Loader as and when required
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	1.596 Hectare	1.422 Hectare	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.990	1 : 0.990	
3o	Total area put in use under different heads at the end of year	2.703 Hect	Around 2.000 Hect	
3p	Production of ROM mineral during the last five year period as applicable	20526 Tonnes	2782 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Mining operation in mines is in small scale . Mining operations as describe in Mining plan is presently adopted

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	4995 cum	around 500 cum	
4b	Location of topsoil, OB and mineral reject dumps	Northen side of the lease area	As per proposal. Northen side of the lease area	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northen side of the lease area	Northen side of the lease area	
4e	Number of active and alive dumps.	one	one	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	One	

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	300 m	300 m	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			The dumps will have to be rehandled for backfilling of the mined out land the stage of backfilling is yet not started

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling stage is not yet started

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	The report was submitted for the year 2015-16	
6b	Area available for rehabilitation (ha) .	Not Proposed	Not Applicable	

6c	afforestation done (ha).	0.2 Hectare	0.2 Hectare
6d	No. of saplings planted during the year	Proposal of 50 Plants	Planted around 50 Plants
6e	Cumulative no .of plants	Around 100 Nos.	Around 100 Nos.
6f	Any other method of rehabilitation	Not Proposed	Not applicable
6g	Cost incurred on watch and care during the year	Rs 2000/-	Rs 2000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not Proposed	Not Applicable
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	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Not Applicable

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Not Applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Not Applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Not Applicable	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation was proposed, no backfilling proposed. Plantation has been done, no proposal for backfilling

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2166 Tonnes	1799.05Tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method of gradewise mineral sorting.	Manual method of gradewise mineral sorting.	
7c	Different grade of mineral sorted out at mines.	20% - 40%	As per proposal 20% - 40%	
7d	Any beneficiation process at mines .	Not Proposed	Not Applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation done in the mines. Only manual means of sorting done in the mines
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump of waste / overburden prposed	One dump of overburden is in the lease area	
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 yet started	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information on existence of plantation given.	Additional Plantation has been done in the area	
8g	Survival rate	80%	50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water srinkling adopted as and when required	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The terrain is hilly. The general aesthetic beauty of the land is fair.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October 2016 A.R. submitted up to March 2015	Discrepancies Found in the Annual return - 2015-16 as follows:- 1. For Annual return it is mentioned Form F-2 instead of H-2 2. Email address columns left blank. 3. Depreciation on fixed assets are not mentioned/ not correctly filled up. 4. In Consumption of Materials. Quantity of Explosives, Electricity consumed and other material is not reported.(Part-III). 5. Explosives details is missing. 6. Ex- mine Price as not calculated properly 7. Number of trees planted during the year, Survival rate	Violation of rule 13(1), 45(5) has been given to the mine owner on 28.12.2016. In response of the violation letter reply of the same has been submitted by mine owner which was not found satisfactory hence show cause notice was issued on 22.02.2017 . Party submitted correctred return hence compliance of violation has been done.
9k	Scrutiny of Annual return on mining machineries			

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	10/04/2017
Rule 45(5)	28/12/2016		Rule 45(5)	28/12/2016	10/04/2017
Rule 45(7)	28/12/2016		Rule 45(7)	28/12/2016	10/04/2017

Date :
(S. M. DORLE)

Indian Bureau of Mines