

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MSH/GAD/FE-3 /NGP

Mine code : 30MSH27003

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18/02/2017
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DEOLGAON**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address** :
State : MAHARASHTRA
District : GADCHIROLI
Village : DEOLGAON
Taluka : ARMORI
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) **Police Station** :
- (g) **First opening date** : 19/04/2008
- (h) **Weekly day of rest** :
2. **Address for** :
correspondance
3. (a) **Lease Number** : MSH0369
- (b) **Lease area** : 1.62
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 27/03/2038
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the
Lessee : M/S MODERN MINERAL INDUSTRIES.
GADCHIROLI MAHARASHTRA
Phone:
FAX :
6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 10/04/2015
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not Applicable	
1b	Exploration over lease area for geological axis 1 or 2	Geological Axis 1	Geological Axis 1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed exploration by self owned Drilling Machine. Proposed expenditure Rs. 1.11 lakhs	Exploration by self owned Drilling Machine expenditure Rs 1.15 lakhs	completed during 2013-14
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Not Applicable	
1e	Balance reserve as on 01/04/20	Reserves estimated as on 01.04.2014 is 15214 MT	Reserve balance as on 01.04.2014 is 9868MT	
1f	General remarks of inspecting officers on geology, exploration etc			Area is already explored at geological axis 1. The area is very small.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Wester side of lease area	As per proposal west side of lease area	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	2 nos. of benches proposed	Presently Working in one bench only.	
2c	Stripping ratio or ore to OB ratio	Not proposed	Not Applicable	
2d	Quantity of topsoil generation in m3	Not proposed as there is no top soil in the area	Not applicable	

2e	Quantity of overburden generation in m3	Overburden proposed to be generated during the period of 2015-16 to 2016-17 is 4505 cum	Overburden generated during the period of 2015-16-2016-17 is 1500 cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		As per low demand of market development /production is also low.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pits proposed for production	Working is in single pits only.	
3b	Quantity of ROM mineral production proposed	Quantity of ROM Mineral proposed is 10876 tonnes for the year 2014-15, 2015-16 and 2016-17.	Quantity of ROM Mineral proposed is 5344 tonnes for the year 2015-16 and 2016-17.	
3c	Recovery of sailable/usable mineral from ROM production	Recovery of salable/usable mineral from ROM production proposed is 90%	Actual recovery of salable/usable mineral from ROM production proposed is also 90%	
3d	Quantity of mineral reject generation	Quantity of mineral reject generation for the year 2014-15, 2015-16 and 2016-17 is 543 tonnes	Quantity of mineral reject generation for the year 2014-15, 2015-16 and 2016-17 is 97.5 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil	
3f	Quantity of sub grade mineral generation.	Quantity of sub-grade mineral generation proposed 543 tonnes for the year 2014-15, 2015-16 and 2016-17	Quantity of sub-grade mineral generated 97.5 tonnes for the year 2014-15, 2015-16 and 2016-17	

3g	Grade of sub grade mineral generation	Not proposed	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method adopted for segregating from ROM	As per proposal manual method adopted for segregating from ROM
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Applicable
3j	Provision of drilling and blasting in mineral benches	No Drilling & Blasting proposed	No Drilling & Blasting as per proposal
3k	Provision of mining machineries in mineral benches	1.Excavator with rock breaker 2. JCB 3. Dumper	The following machinery used in the mine as and when required 1.Excavator with rock breaker 2.Dumper
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed height of benches in overburden and mineral suitable for method of mining.	As per proposal
3m	Total area covered under excavation/pits	Total area proposed to be covered under excavation/pits is 1.05 Hectare	Total area covered under excavation/pits is 1.05 Hectare
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed	-
3o	Total area put in use under different heads at the end of year	Proposed total area put in use under different heads at the end of year is 1.56 Hectare	Total area put in use under different heads at the end of year is 1.56 Hectare
3p	Production of ROM mineral during the last five year period as applicable	Production of ROM mineral during 2013-14 to 2016-17 is 10876 MT	Actual production of ROM mineral during 2013-14 to 2016-17 is 5344 MT

3q	General remarks of inspecting officers on method of mining etc.	No drilling and blasting done in the area as hanging wall and foot wall side formation in the area are decomposed.
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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)	Proposed separate dumping of OB & mineral reject	As per proposal showing in concern plan.	
4b	Location of topsoil, OB and mineral reject dumps	Proposed NE within Boundary lease	As per proposal	
4c	Number of dumps within lease area and outside of lease area	Proposed 0.5 Km from Lease area NW	0.5 Km from Lease area NW	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Not applicable	
4e	Number of active and alive dumps.	Not Proposed	Not applicable	
4f	Number of dead dumps.	Not Proposed	NE in within Lease area	
4g	Number of dumps established.	Not Proposed	Not Applicable	
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	Nil	
4j	Number of settling ponds	One number of settling pond proposed	As per proposal on setting pond	

4k	Specific comments of inspecting officer on waste dump management	Since area is very small, owner obtain a permission from DGM regarding dumping outside lease area.
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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.	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	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No stage of reclamation or backfilling 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).	Proposed.	Annual report on PMCP submitted on time and correctly for the year 2016-17	
6b	Area available for rehabilitation (ha) .	Nil	Not Applicable	

6c	afforestation done (ha).	Afforestation on 0.0784 hectare area proposed.	As per proposal
6d	No. of saplings planted during the year	Proposed to plant 10 Nos. of trees every year	As per proposal.
6e	Cumulative no .of plants	250 Nos of plants during scheme period.	Around 50 plant planted during the period 5 years period
6f	Any other method of rehabilitation	Not proposed	Not applicable
6g	Cost incurred on watch and care during the year	Not proposed	cost of Rs 12500/- invested for watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Not Applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Not Applicable
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)	Proposed	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation was proposed, no backfilling proposed.The proposed measures for progressive clouser 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	ROM Mineral grade-wise sorting proposed within lease area	ROM Mineral grade-wise sorting has been carried out within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method of grade-wise mineral sorting prposed	As per proposal	
7d	Any beneficiation process at mines .	Nil	Not Applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No benification done
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	No topsoil in the area	
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As mentioned in Solid Waste Management chapter	
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	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline study done. It was proposed to do 25 no. of plant per year	Total about 200 plant planted	
8g	Survival rate	Not proposed.	Servival rate 50%	
8h	Water sprinkling on roads to control airborne dust	No proposal given	No proposal given, however sprinkling has been done as and when require.	

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

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual Return of 2015-16 submitted online in form H-1	It is found that most of the columns of the return filled correctly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No information given	Presently part time Mining Engineer employed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not Given	Not given	
9d	Scrutiny of Annual return on afforestation	Information given on afforestation	Plantation within and outside lease area given	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details about ROM stock and graded ore given.	Details of Iron ore of lumps of 55% to 58 % grade and 60% to 62 % grade shown.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information of sale value, Ex. Mine price & production cost given	Cost of ex. Mine price is Rs 800.00 per tonne Cost of production Rs 468.00 per tonne	
9h	Scrutiny of Annual return on fixed assets	Not Given	Nil	
9k	Scrutiny of Annual return on mining machineries	Not given	No machinary deployed.	

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 :
(S. M. DORLE)

Indian Bureau of Mines