INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-60/NGP Mine code : 40MPR01055

(i) Name of the Inspecting : D025) S. M. DORLE

Officer and ID No.

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine :

Official with Designation

(iv) Date of Inspection : 11/05/2016

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

. (a) Mine Name : WARUD (4.464H)

(b) Registration NO: :

(e) Postal address

State : MADHYA PRADESH

District : BALAGHAT
Village : WARUD
Taluka : KATANGI
Post office : SHIRPUR

Pin Code :
FAX No. :
E-mail :
Phone :

(f) Police Station :

(g) First opening date : 01/04/2011

(h) Weekly day of rest :

2. Address for :

correspondance

3. (a) Lease Number : MPR2543
(b) Lease area : 4.46
(c) Period of lease : 20

(d) Date of Expiry : 24/07/2028

4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : THOMSON GAZELLE

BALAGHAT MADHYA PRADESH

Phone: FAX :

6. Date of approval of Mining : Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	80 meters with 4 nos of holes	Two holes with 60 meter	rs
1b	Exploration over lease area for geological axis 1 or 2	4 holes two on each axis	One hole on each axis	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Siddarth agency	M/s Siddarth agency	
1d	Balance area to be explored to bring Geological axis in 1 or 2	One hole on each axis	One hole on each axis	
1e	Balance reserve as on 01/04/20	15750 MT	20265 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Nil

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Toward West to east	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	top soil and one bench in	As per proposal one bench in top soil and one bench in mineral	
2c	Stripping ratio or ore to OB ratio	1:4	1:4	
2d	Quantity of topsoil generation in m3	300 m3	300 m3	
2e	Quantity of overburden generation in m3	1200	1000	work has been done as per proposal

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

No deviation observed in development.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	As per proposal	
3b	Quantity of ROM mineral production proposed	1500MT	88 MT	
3с	Recovery of sailable/usable mineral from ROM production	1050 MT	Nil	
3d	Quantity of mineral reject generation	1200 MT	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Below 35%	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Below 25%	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.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Given	As per proposal	

3k	Provision of mining machineries in mineral benches	Nil	Not Applicable	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, one mtr in soil and 3 mtr in orebody	As per proposal	
3m	Total area covered under excavation/pits	1.5 Hect	As per proposal	
3n	Ore to OB ratio for the pit/mine during the year.	1:4	As per proposal	
30	Total area put in use under different heads at the end of year	2.5 hect	2.5 hect	
3p	Production of ROM mineral during the last five year period as applicable	1500		
3q	General remarks of inspecting officers on method of mining etc.			Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Nil	
4b		In south and east side of area	As per proposal	
4c	Number of dumps within lease area and outside of lease area	3 dumps	As per proposal.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	side of lease	As per proposal	

4e	Number of active and alive dumps.	-	3	
4f	Number of dead dumps.	Nil	NA	
4g	Number of dumps established.	3	3	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	As per proposal	
4i	Length of Retaining wall or garland drain all along dumps	320 m	Already exist 645 M	
4j	Number of settling ponds	Nil	NA.	
4k	Specific comments of inspecting officer on waste dump management			Waste management as per existing provisions in rule

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	NA	
5b	Area under backfilling of mined out area	Nil	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For Plantation	As per proposal	
5d	Total area fully reclaimed and rehabilitated	Nil	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No stage of back filling at present

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Nil	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Nil	Nil	
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)Afforestati on on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	

61	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	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
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.			No stage of backfilling till date

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Ore from ROM is being separated in +35% and +25% of ore is separated out manually rest of the below 20% is rejected and kept separately in south direction area for the future use of ore.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	As per proposal	

7c	Different grade of mineral sorted out at mines.	Nil	NA	
7d	Any beneficiation process at mines .	Nil	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being separated in mines manually

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	soil is to be separately	As per proposal 300 tones of soil is to be separately kept and is to be used for plantation work	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1200 m3 overburden was generated	480 tonnes of material was kept in dumps during development	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	for the	Dumps are stored separately and will be utilized at end	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	NA	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 nos. of plants are to be plant every year	As per proposal	
8g	Survival rate	50%	50%	
8h	Water sprinkling on roads to control airborne dust	proposed for	Sprinkling required for the plantation	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic bueaty is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto -Jan2016 A.R. submitted upto -2014-2015		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager			
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given		
9d	Scrutiny of Annual return on afforestation	Not given		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject was generated only from old waste dumps	Nil	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	was reported during 2015-		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	N A	-	
9h	Scrutiny of Annual return on fixed assets	-		It is found that most of the columns are filled up more or less correctly.
9k	Scrutiny of Annual return on mining machineries	Not Given	Nil	

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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

Date :

(S. M. DORLE)

Indian Bureau of Mines