# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR INSPECTION REPORT

### Nagpur regional office

Mine file No : MAH/YTL/LST-25/NGP Mine code : 38MSH26006

(i) Name of the Inspecting : MQ17 ) ASHISH MISHRA

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : SHRI N. N. WARWATKAR, LESSEE, SHRI M. D. KHUSPURE, MI

Official with Designation

(iv) Date of Inspection : 14/03/2017
(v) Prev.inspection date : 30/09/2015

#### PART-I : GENERAL INFORMATION

(a) Mine Name : MAJRA-39

(b) Registration NO. : IBM/7963/2011

(e) Postal address

State : MAHARASHTRA
District : YEOTMAL
Village : MAJRA
Taluka : WANI
Post office : RAJUR
Pin Code : 445304

FAX No. : E-mail :

Phone : 07239-35957(Rajur office)

(f) Police Station

(g) First opening date : 17/10/1986

(h) Weekly day of rest : SUN

2. Address for :

correspondance

3. (a) Lease Number : MSH0028 (b) Lease area : 3.6

(c) Period of lease : 20

(d) Date of Expiry : 16/10/2006

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : Shri N.B.Warwatkar

Ward No.64, Jagnath Budhawari, Nagpur

Distt.Nagpur (MS) NAGPUR

MAHARASHTRA

Phone: FAX:

Owner : Shri N.B.Warwatkar

Ward No.64, Jagnath

Budhwari, Itwari Nagpur (MS)

NAGPUR MAHARASHTRA

Phone: FAX:

Mining Engineer

Name : SHRI A.N. RAJURKAR, Full Time

Qualification : BE(MINING)
Appointment/ : 20/09/1999

Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 04/10/2004 Plan/Scheme of Mining Renewal under rule 24 MCR1960 11/05/2007

Mining Scheme rule 12 MCDR1988 04/06/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Nil	Nil	In the approved SOM for the period 2012-13 to 2016-17, two DTH boreholes were proposed to be drilled in the year 2013-14 that were drilled in 2014-15. Apart from this, no exploration proposals were there for the area.
1b	Exploration over lease area for geological axis or 2		G1	Total exploration done till date is in form of 2 boreholes drilled in the year 2010-11 and two boreholes in the year 2014-15. Alongwith this, developed pit having depth of 7.0 m is also considered while estimation of reserves/resources. Thus entire area is covered upto 12 m depth. In future, depth persistancy is needed to be proved through exploration if the economical depth goes beyond 12 m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	

1e	Balance reserve as on 01/04/20	As on 01.04.2016, balance reserves wil be: 332200 T	As on 01.04.2016, balance reserves are: 350000 T (approximately)	Production is less than the proposals. Hence depletion is less and balance reserves are more.
1f	General remarks of inspecting officers on geology, exploration etc			Exploration shall be required if the proposals go beyond 12 m depth.

# Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	part of the	As per the proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.12	
2d	Quantity of topsoil generation in m3	540 cuM	270 cuM	
2e	Quantity of overburden generation in m3	Nil	Nil	There is no overburden except soil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Limestone is almost flat deposit and development done is adeqaute for the area. Only the quantum of development is lagging behind from the proposals due to market demands.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks

3a	Number of pit proposed for production	One	One	One existing pit has been extended for production.
3b	Quantity of ROM mineral production proposed	2015-16: 6750 T	2015-16: 2208.950 T	
3с	Recovery of sailable/usable mineral from ROM production	90%	100%	Actual recovery is more than the proposals as there is no intercalation and complete ROM is being sold after blending with 10% fines generated.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable	No segregation work is being carried out. Saleable/clean ore is being sold after blending with fines and in turn approximately complete ROM is being sold. Blending is manual.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Applicable	Not Applicable	
3ј	Provision of drilling and blasting in mineral benches	Yes	Yes	Drilling is done by 34 mm dia Jack Hammer Drilles with 1.5-1.6 m deep blast holes.

Remarks

3k	Provision of mining machineries in mineral benches	No	No	As the mine was not working, the mechanization could not be verified. As per approved SOM, mining method is manual.
31	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	1.78 ha	As per the proposals.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.12	
30	Total area put in use under different heads at the end of year	Area Under Pits: 1.78 ha Area under Waste Dumps: 0.65 ha Area Under Infrastructure : 0.02 ha Area Under Roads: 0.20 ha Total: 2.65 ha	Area Under Pits: 1.78 ha Area under Waste Dumps: 0.65 ha Area Under Infrastructure: 0.02 ha Area Under Roads: 0.20 ha Total: 2.65 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 2700 T 2012-13: No Proposals 2013-14: 6750 T 2014-15: 6750 T 2015-16: 6750	2011-12: 2267 T 2012-13: 5872 T 2013-14: 2241 T 2014-15: 897 T 2015-16: 2208 T	
3q	General remarks of inspecting officers on method of mining etc.			Method of Mining is Manual and bench parameters are as per the category of the mine.

Propasals Actual work

Solid Waste Management - Dumping:

Sl.No.

Item

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	As per the proposals	Top soil generated is being utilized for plantation on dumps. There is no overburden except top soil and mineral rejects are in form of fines which are being sold after blending with graded ore.
4b	Location of topsoil, OB and mineral reject dumps	No such dumps available	No such dumps available	Top soil is being utilized concurrently and mineral rejects are also being blended. No OB present in the area.
4c	Number of dumps within lease area and outside of lease area	within lease	As per the proposals	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within pit limit	Within pit limit	Entire lease area is mineralized. Hence no 'outside pit limit' area is available for dumping.
4e	Number of active and alive dumps.	One	One	
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.	No	No	It was suggested during site inspection to construct and maintain garland drain and retaining wall all along the dump.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	

4k Specific comments of inspecting officer on waste dump management

Waste dump is being stabilized through plantation only. Construction of garland drain and retaining wall is suggested to the lessee.

## 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 Applicable	Not applicable as the mineral has not exhausted.	
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)	Nil	Nil	Concurrent use of top soil is being done for plantation on dumps.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is proposed for conceptual stage after taking approval of IBM. Till then mineral is not expected to exhaust.

## 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).	Statutory requirement	Not submitted	Violation of rule 26(2) of MCDR'2017 issued.

6b	Area available for rehabilitation (ha).	Nil	Nil	
бс	afforestation done (ha).	0.20 ha	As per the proposals	Afforestaion has been done on the dumps.
6d	No. of saplings planted during the year	50	50	
6e	Cumulative no .of plants	275	125 approximately	
6f	Any other method of rehabilitation	No	No	
6g	Cost incurred on watch and care during the year	Rs 37000	Approximately as per the proposals	
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 as No waste land available within the lease area	
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	Not Applicable	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Yes	As per the proposals	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities are being done by the lessee but survival of afforestation is low. The backlog is advised to be covered in the future proposals. Violation for nonsubmission of Annual report has been issued.

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting	As per the proposals.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

7c	Different grade of mineral sorted out at mines.	Mixed Cement Grade	As per the proposals	Fines/mineral rejects are being blended in the graded ore before dispatch.
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Limestone occuring in the area doesn't require any beneficiation. Mineral conservation is being practiced by blending the mineral rejects generated in form of fines.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Concurrent use of top soil	As per the proposal	s.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	As per the proposal	s
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No	Till the conceptual stage, no retoration of land to its original use has been proposed.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes	
8g	Survival rate	Around 80%	45%	It was suggested to cover the backlog in the future proposals.
8h	Water sprinkling on roads to control airborne dust		Yes	As the mine was not working, the activity could not be verified.
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area			The area is having a lot of mined out/abandoned leases. Lessee efforted plantation on the dumps using top soil generated in the excavation. Therefore, aesthetic beauty is satisfactory for the area.

# Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly and Annual returns are being submitted online and are up to date.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No information furnished.	No Mining Engineer or Geologist appointed.	Violation of rule 55(3) already served for the purpose.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Correct information furnished	Spot guidance given for the land use area to be filled in the AR.
9d	Scrutiny of Annual return on afforestation	50 Trees	50 Trees	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	As the mineral reject is in form of fines which is being sold after blending with graded ore, the information has been considered as correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Correct information furnished	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	_		
9h	Scrutiny of Annual return on fixed assets	Correct information furnished	Correct information furnished	
9k 	Scrutiny of Annual return on mining machineries	Nil	Nil	As per the category of the mine, the information is correct.

# Details of violations observed during current inspection and compliance position of violation pointed out $\frac{1}{2}$

Violation	n observed	Show	couse position
Rule NO.	Issued on Complianc	e on Rule NO.	Issued on Compliance on
MCDR17 Rule 11(3)	25/05/2017		
MCDR17 Rule 11(4)	25/05/2017		
Rule 26(2)	25/05/2017		
MCDR17 Rule 55(1)(3	; 25/05/2017		

Date: (ASHISH MISHRA)

Indian Bureau of Mines