

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/CND/LST-9/NGP

Mine code : 38MSH08009

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Rambabu
Official with
Designation
- (iv) Date of Inspection : 28/02/2017
- (v) Prev.inspection date : 18/06/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ZUTTING (50.51 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : CHANDRAPUR
Village : ZUTTING
Taluka : KORPANA
Post office : NARANDA
Pin Code :
FAX No. : N.A.
E-mail : N.A.
Phone : N.A.
- (f) Police Station : CHANDRAPUR
- (g) First opening date : 01/02/1982
- (h) Weekly day of rest : WED
2. Address for :
correspondance
3. (a) Lease Number : MSH0013
(b) Lease area : 50.51
(c) Period of lease : 30
(d) Date of Expiry : 24/01/2032
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : Shri V.Suguna Bhushan Rao
 Allapalli Road ,
 Ballarshah, Chandrapur
 Distt. Chandrapur (MS)
 CHANDRAPUR MAHARASHTRA
 Phone:
 FAX :

Owner : Shri V.Suguna Bhushan Rao
 Allapalli Road ,
 Ballarshah, Distt.
 Chandrapur (MS) CHANDRAPUR
 MAHARASHTRA
 Phone:
 FAX :

Agent : J. ANAND RAO
 ALLAPALLI ROAD, BALLARSHAH-
 442 701 CHANDRAPUR
 MAHARASHTRA
 Phone: 07172-240594
 FAX :

Mining Engineer

Name : J. HANUMANTH RAO, Full Time
 Qualification : BE(MINING)
 Appointment/ : 22/12/1999
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	26/03/2003
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18/12/2009
		Mining Scheme rule 12 MCDR1988	12/10/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	No backlog. Already drilled 8 no. of boreholes	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 12 nos of boreholes in the area	Not done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed estimated expenditure for exploration is Rs 90000/-	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	
1e	Balance reserve as on 01/04/20	Total Mineral resources- 27573397 tonnes as on 01.04.2015	Balance reserve will be after deduction of production from 2014-15 to 2015-16 is 27570997 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The present life of mine calculated 271 years. The life of mine will change after detail exploration in area when increase in production as per market demand

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposal for development in North western direction in the central part of lease area	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed height of soil is about 1.00 m	There is very small amount of soil in the area in most of the places	

2c	Stripping ratio or ore to OB ratio	0: 0.03	Nil	
2d	Quantity of topsoil generation in m3	No proposal of generation of topsoil in the year 2015-16	As per proposal	
2e	Quantity of overburden generation in m3	No proposal of generation of overburden in 2015-16	As per proposal	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Recovery of production is lower than as proposed in scheme due to market demand

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed one pit at Central part of the lease	As per proposal	
3b	Quantity of ROM mineral production proposed	Proposed quantity of production is 34170 cum for the year 2015-16	1100 tonnes production reported	
3c	Recovery of sailable/usable mineral from ROM production	85% Recovery of salable /usable mineral from ROM production proposed	As per proposal	
3d	Quantity of mineral reject generation	Proposed reject generation is 15% of production.	No reject	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	As per proposal no subgrade will be generated	As per proposal	

3g	Grade of sub grade mineral generation	Not Applicable	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.	No beneficiation proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	Proposal of drilling and blasting as and when required	As per proposal
3k	Provision of mining machineries in mineral benches	Provision of Mining Machinery like JCB- 0.3 and 0.5 cum bucket capacity etc	As per proposal
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 proposed in SOM	As per proposal
3m	Total area covered under excavation/pits	4.000 hect	Around 4.000 Hect.
3n	Ore to OB ratio for the pit/mine during the year.	Proposed Ore to OB ratio for 2015-16 is 0: 0.2	As per proposal
3o	Total area put in use under different heads at the end of year	Proposed total area put in use under different head at the end of year is 6.576 Hect	Actual total area put in use under different head at the end of year is about 6.50 Hect

3p	Production of ROM mineral during the last five year period as applicable	Proposed production as per approved scheme of mining as on 12.10.2015 is 2013-14- 4553 cum 2014-15- 34170 cum 2015-16- 34170 cum	Actual production is 2011-12- 7287 tonnes 2012-13- 5599 tonnes 2013-14- 12939 tonnes 2014-15- 1300 tonnes 2015-16- 1100 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			There is no stock of sub grade limestone in the mine, actually subgrade generated is used for blending with high grade limestone. No beneficiation of limestone done in the mine.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposed of seperate dumping of topsoil and mineral reject	Top soil and overburden waste not generated	
4b	Location of topsoil, OB and mineral reject dumps	No topsoil, overburden proposed to be generated during 2015-16 only mineral reject of 361.875 tonnes proposed to be generated.	No topsoil, overburden mineral reject generated during 2015-16	
4c	Number of dumps within lease area and outside of lease area	There are eight old dumps are in the area .	There are eight old dumps are only in the area, no new soil or overburden dumps were created in the area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Old dumps are lying northen and esaternside of lease area as shown in map	As per proposal	
4e	Number of active and alive dumps.	No active or alive dump	Not applicable	

4f	Number of dead dumps.	Eight nos of old dumps	These old dumps already stabilised	
4g	Number of dumps established.	8 dumps	As per proposal	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of retaining wall or garland drain all along dumps.	As per proposal	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not Applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			No dump of soil or overburden generated during period of scheme.

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	Nil	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Presently the backfilling is not proposed .The top soil is being used in the plantation done in the lease area and also the plantation done in the 7.5 meter barrier zone.
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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 submmited for the year 2015-16	
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha).	0.100 Hectare area proposed for afforeastation from 2013-14 to 2017-18 i.e. 200 m2 area per year	As per proposal	
6d	No. of saplings planted during the year	Proposed 25 Nos of trees per year	As per proposal	
6e	Cumulative no .of plants	Proposed 125 Nos of plants during plan period	As per proposal more than 125 nos. plants planted	
6f	Any other method of rehabilitation	Nil	NA	
6g	Cost incurred on watch and care during the year	Not proposed	Around Rs 2000/-per year	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Na	

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 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	Nil	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	NA
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)	Proposed	done

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			During the scheme period plantation was proposed, no backfilling was proposed, The proposed measures for Progressive Closure of mine are being complied in the mine.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed ROM Mineral dispatch directly as per requirement of end user.	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	As per proposal	
7c	Different grade of mineral sorted out at mines.	Nil	NA	
7d	Any beneficiation process at mines	No beneficiation proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No benification proposed. No beneficiation done.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil is available in the lease area	Not Applicable	

8b	Concurrent use or storage of topsoil	Nil	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal overburden and waste generation, proposal for reject 5% and rejection of low grade limestone 10% given	Not generated	
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	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed plantation 25 trees per year	Plantation 25 trees per year done	
8g	Survival rate	Not given	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed water sprinkling on roads to control airborne dust.	done.	
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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted monthly return upto February 2017 Submitted Annual return for the year 2015-16	The annual and monthly returns have been submitted online at time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Dananjay Baburao Shastrakar is the Manager and Mining Enginner	The mining engineer and Manager Shri Dananjay Baburao Shastrakar was present during inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining is given 4.00 Hect reclaimed area within lease-NIL	The details are found correct as on date of inspection the area under pit and dumps is more or less same as reported in the annual return.
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year shown 1500	Mine owner advise to correct figure as against figure 1500, as around 25 no. of tress planted during the year
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral reject	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The stock of ROM is 1218 tonnes as reported in monthly return March 2017	found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price is given Rs 450/- Cost of production is Rs 432/-	Material is used for captive consumption
9h	Scrutiny of Annual return on fixed assets	Given	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	No machinary deployed at present

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