

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/YTL/LST-18/NGP

**Mine code :** 38MSH26011

- (i) Name of the Inspecting : **D025** ) **S. M. DORLE**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri N.N.Warwatkar  
Official with  
Designation
- (iv) Date of Inspection : 03/03/2017
- (v) Prev.inspection date : 19/08/2009

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **WANJRI-134**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : YEOTMAL  
Village : WANJRI  
Taluka : WANI  
Post office : RAJUR  
Pin Code : 445309  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 17/10/1966
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance :
3. (a) Lease Number : MSH0021
- (b) Lease area : 3.33
- (c) Period of lease : 20
- (d) Date of Expiry : 16/10/2026
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : Shri J.M.D' Costa  
 PO- Rajur (C.Rly), Tah.  
 Wani Distt. Yavatmal (MS)  
 YEOTMAL MAHARASHTRA  
 Phone:  
 FAX :

Owner : SHRI NARENDRA N. WARWATKAR  
 AT AND PO RAJUR-445 309  
 TAHSIL WANI, DISTT.  
 YAVATMAL YEOTMAL  
 MAHARASHTRA  
 Phone: 07239-23 5952  
 FAX :

## Mining Engineer

Name : KUMAR RAJAN, Part Time  
 Qualification : B TECH(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	08/06/2007
	:	Mining Scheme rule 12 MCDR1988	11/07/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 nos. of borehole proposed in 2013-2014 of 20 m depth	Not done	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs 1000/- per meter	not done	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2013 is 9,00,900 tonnes	The limestone production achieved during the year 2013-14 to 2016-17 was 14158 metric tonnes. The balance reserve as on 1.04.2017 was 886742 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The area is well explored by sinking 2 boreholes of 10 m each during initial commencement of mining operation and good deposits of limestone is well established

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North side of lease area	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of soil and overburden benches	No soil or overburden benches in working area	

2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	Generation of top soil not proposed	No generation of top soil	
2e	Quantity of overburden generation in m3	Proposed 6180 m3 overburden	No waste generation	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In the area no topsoil or overburden generated in the current scheme period.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed for production	Working in one pit only	
3b	Quantity of ROM mineral production proposed	51300 tonnes of salable limestone mineral production proposed during 2016-17.	2496 tonnes of salable limestone mineral production proposed during 2016-17.	
3c	Recovery of sailable/usable mineral from ROM production	90% from ROM mineral	As per proposal	
3d	Quantity of mineral reject generation	Quantity of mineral reject generation not proposed	Mineral reject not generated	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Nil	
3f	Quantity of sub grade mineral generation.	Sub grade Mineral generation not proposed	Sub grade Mineral generated	
3g	Grade of sub grade mineral generation	Nil	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual method proposed for segregating from ROM	Manual method adopted for segregating from ROM
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Proposed drilling and blasting in mineral benches	Drilling and blasting is done in the mineral benches
3k	Provision of mining machineries in mineral benches	Not proposed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	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	Proposed 5.00 Hect area covered under excavation/pit	Around 5.00 Hect area covered under excavation/pit
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil
3o	Total area put in use under different heads at the end of year	Total area proposed to covered under excavation/pit s is 6.42 hect	Total area covered under excavation/pits is around 6.42 hect
3p	Production of ROM mineral during the last five year period as applicable	Production of ROM mineral is 139050 tonnes during last four year period (2013- 14- to 2016- 2017)	Actual production of ROM mineral is 14158 tonnes during last four year period (2013-14- to 2016-17).
3q	General remarks of inspecting officers on method of mining etc.		Target of production has not been achieved as low market demand.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal of 12360 m3 overburden generated during scheme period	No overburden generated during scheme period.	
4b	Location of topsoil, OB and mineral reject dumps	Proposed dmping area of 0.62 Ha along lease boundary	No overburden generated	
4c	Number of dumps within lease area and outside of lease area	Proposal of dumping site near lease boundary	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Location of dumps are proposed near UPL	Nil	
4e	Number of active and alive dumps.	Not proposed	Nil	
4f	Number of dead dumps.	Not proposed	Nil	
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			No dump is generated during this scheme period.

## 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 as mineral not extract in full	Notr applicable	

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)	Presently not use as no phase of backfilling started.	Not Applicable.	
5d	Total area fully reclaimed and rehabilitated	Nil	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Presently external dumping is being carried out. Backfilling shall commence when sufficient wide mined area available.

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed for Annual report on PMCP	Annual report of 2016-17 submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	100 tress proposed per year during plan period.	Around 50 tress planted	
6d	No. of saplings planted during the year	Proposed 100 nos per year	Around 50 nos. planted in total.	
6e	Cumulative no .of plants	Proposed 400 nos.	Around 50 nos of tress planted.	
6f	Any other method of rehabilitation	Not proposed	Nil.	
6g	Cost incurred on watch and care during the year	Proposed Rs 52000 during the year 2016-17 for afforestation on dumps.	Not implemented	

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)Afforestation on 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	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil



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 has been done, no proposal for backfilling. 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	Grade-wise sorting of ROM mineral within lease area	As per proposal grade-wise sorting of mineral within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed method of grade-wise mineral sorting is manual	Method of grade-wise mineral sorting is manual	
7c	Different grade of mineral sorted out at mines.	Cement grade limestone	Cement grade limestone	
7d	Any beneficiation process at mines .	No beneficiation process adopted at mines	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The ROM is processed to 100mm to 200mm sizes and lessee supplied to the end users as per specific requirement. No cemical process is involved for upgrading the grade of limestone. The present use of limestone is for Lime and Cement grade.

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As per proposal no topsoil generation	No topsoil generation	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed near 7.5 m boundary	Seperate overburden dump maintain as per proposal.	
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 applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline study done. It was proposed to plants 25 no. of plants per year during last 5 year.	Around 50 nos. of plants planted in the area.	
8g	Survival rate	Not proposed	about 50%	
8h	Water sprinkling on roads to control airborne dust	Not proposed	Not done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The terrain is undulating. 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	Monthly return submitted upto March 2017 Annual return submitted upto 2016-17	It is found that most of the columns filled up correctly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri M.D.Khuspure, B E(mining) ,Part time Mining Engineer	The mining engineer was present during inspection. The notice of appointment has been received.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under opencast working is given as 7.20 hecets Under reclaimed area-NIL dumps and plantation - 0.40 hecets	The details are found correct as on date of inspection the area under pit and dumps as reported in the annual return.
9d	Scrutiny of Annual return on afforestation	Information Given for planting 100 trees	About 50 plants in the area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information Given	Cost of production showing Rs 290.- per tonne
9h	Scrutiny of Annual return on fixed assets	Nil	--
9k	Scrutiny of Annual return on mining machineries	Given.	Found correct.

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**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
MCDR17	Rule 11(1)	21/03/2017	31/05/2017	MCDR17	Rule 11(1)	21/03/2017	
MCDR17	Rule 11(2)	21/03/2017	31/05/2017	MCDR17	Rule 11(2)	21/03/2017	
MCDR17	Rule 11(3)	21/03/2017					
MCDR17	Rule 11(4)	21/03/2017					

**Date :**

**(S. M. DORLE)**

Indian Bureau of Mines