

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/YTL/LST-63/NGP

Mine code : 38MSH26039

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Vairagade, Shri Deorus, Shri M.P.Patel
Official with
Designation
- (iv) Date of Inspection : 21/09/2018
- (v) Prev.inspection date : 25/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ADEGAON (9.97H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : YEOTMAL
Village : Adegaon
Taluka : Zari
Post office : Adegaon
Pin Code : 445319
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 23/05/2006
- (h) Weekly day of rest :
2. Address for : 49/5, Nehru Nagar (E),
correspondance At & P.O. Bhilai,
Distt. Durg
3. (a) Lease Number : MSH0293
(b) Lease area : 9.97
(c) Period of lease : 50
(d) Date of Expiry : 21/07/2053
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SHRI T.R. MISHRA
49/5, Nehru Nagar (E), At &
P.O. Bhilai, Distt. Durg
DURG CHHATTISGARH
Phone:
FAX :

Owner : SHRI T.R. MISHRA
49/5, Nehru Nagar (E), At &
P.O. Bhilai, Distt. Durg
DURG CHHATTISGARH
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	30/04/2003
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	07/05/2009
		Modif.approved Mining Scheme	31/10/2012
		Mining Scheme rule 12 MCDR1988	29/08/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No back log	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Nil	
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	Not Proposed	Nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2016 is 2444304 MT of Limestone	-----	
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	As per lessess, they have drilled nine non coring boreholes but as per MEMC rule non coreing boreholes are not acceptable.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North of the pit , N300 to N400 E100 to 200	Nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil - Benches for OB & limestone	Nil Nil	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	working from old dump
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	180 m3	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is having Dolomite and Limestone mineral.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	900 MT	910 MT	
3c	Recovery of sailable/usable mineral from ROM production	60%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	CaO - 28 % MgO - 17 % SiO2 - 3%	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	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.	Not proposed	NA	

3j	Provision of drilling and blasting in mineral benches	Small hole drilling	Nil	
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	As per mining proposed in MP/SOM	OB -1.5 m Ore - 1.5 m	
3m	Total area covered under excavation/pits	3.61 Hect	2.52 Hect.	
3n	Ore to OB ratio for the pit/mine during the year.	2 : 1	Nil	
3o	Total area put in use under different heads at the end of year	Pit-3.61 Waste/reject 1.08 Infrastructure - 0.45 Road -0.4	Pit-2.52 Waste/reject 1.08 Infrastructure - 0.035 Road -0.4	
3p	Production of ROM mineral during the last five year period as applicable	Yr-2013-14 - 00. Yr-2014-15 -- Yr-2015-16 -- Yr-2016-17 Yr 2017-18 900 T	Yr-2013-14 - 00. Yr-2014-15 -500.560 T Yr-2015-16 1570 T Yr-2016-17 00 T Yr 2017-18 783 T	
3q	General remarks of inspecting officers on method of mining etc.			This mine is having production mainly of Dolomite

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	504 cu m	Nil	

4b	Location of topsoil, OB and mineral reject dumps	N 200 to 400 E 00 to 100 and N 100 to 00 E400 to 500	Nil	
4c	Number of dumps within lease area and outside of lease area	2 Nos	2 Nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Central part of lease, and NW of existing pit	As per proposal	
4e	Number of active and alive dumps.	Two	Two	
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.	Proposed	100 m long reitaining wall prepared	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	100 m long reitaining wall prepared	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Owner has to shifted dumps in 7.5 m boundary for further development.

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	full extraction of mineral - Not Proposed	
5b	Area under backfilling of mined out area	Not Prposed	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	use of topsoil - Plantation	As per proposal	
5d	Total area fully reclaimed and rehabilitated	None	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling stage has arrived

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 - Rule 26(2).	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	Not Proposed	Nil	
6d	No. of saplings planted during the year	Not Proposed	Around 100 saplings planted	
6e	Cumulative no .of plants	Not Proposed	around 300 nos	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6g	Cost incurred on watch and care during the year	Not Proposed	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	None	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	A stage of backfilling is yet to come
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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 without grade-wise sorting within lease area	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	No different grade of mineral sorted out at mines only cement grade only	As per proposal	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			only sizing has been done in crusher for cement grade limestone

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Separate removal and utilization of topsoil for plantation in lease area	

8b	Concurrent use or storage of topsoil	Proposed.	Topsoil is very less quantity -Use for Plantation within lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Yes , Use of overburden, waste rock presently use for road repairing within lease area and gram panchayat road on demand . It will be used for backfilling at the end of life of mine for restoring the land to its original use	
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)	NA	Nil	
8g	Survival rate	NA	Very poor due rocky surface ,without soil.	
8h	Water sprinkling on roads to control airborne dust	Proposed	Yes , done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty of the lease area 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	Annual return for 2017-18 and monthly return upto August 2018 received	It is found most of the columns filled up correctly.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Manager Shri. M.P.Patel	Geologist is not appointed	Violation of Rule 55(1)(3) is being issued
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Around 3.43 Hects	Around 3.43 Hects	
9d	Scrutiny of Annual return on afforestation	100 with survival 50%	found correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Not generated	found correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	production shown from 710 tonnes and from dump working 200 tonnes		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value, Ex. Mine price & production cost shown Rs 450 per tonnes	Cost of production shown more than sale price cost of production is Rs 480/per tonnes.	
9h	Scrutiny of Annual return on fixed assets	Nil	-----	
9k	Scrutiny of Annual return on mining machineries	Only backhoe shown in return	All other machineries not shown	

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