

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST-54/BNG

Mine code : 38KAR10019

- (i) Name of the Inspecting : 130) PRASHANT S HEGDE
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri K. Arunachalam, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 02/11/2018
- (v) Prev.inspection date : 07/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : ITAGI LIMESTONE MINE
- (b) **Registration NO.** : IBM/20026/2015
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : GULBARGA
- Village : ITAGI & MOGLA
- Taluka : CHITTAPUR
- Post office : MALKHED ROAD
- Pin Code : 585211
- FAX No. : 040-23688754, orientmines@
- E-mail : chittapur.mines@orientceme
- Phone : 040-23688600 08474-236710
- (f) **Police Station** : CHITTAPUR
- (g) **First opening date** : 12/08/2015
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S ORIENT CEMENT LIMITED,
Village: Itagi and Mogla, Post: Malkhed,
Taluk: Chittapur, District: Gulbarga-585211
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S ORIENT CEMENT LIMITED
 5-9-22/57/D, 2nd & 3rd
 Floor, G P Birla Centre,
 Adarsh nagar Hyderabad
 HYDERABAD ANDHRA PRADESH
 Phone:040-23688600
 FAX :040-23688754

Owner : DESH DEEPAK KHETRAPAL
 M/S ORIENT CEMENT LIMITED
 5-9-22/57/D, 2nd & 3rd
 FLOOR, ADARSH NAGAR,
 HYDERABAD HYDERABAD
 TELANGANA
 Phone:
 FAX :

Agent : Satybrata Sharma
 M/s Orient Cement Limited
 Village-Itagi Tq-_Chittapur
 GULBARGA KARNATAKA
 Phone: 08474-236716
 FAX :

Mining Engineer
 Name : M. Amarnath Reddy, Full Time
 Qualification : BE (Mining)
 Appointment/ : 24/09/2015
 Termination date

Manager
 Name : K. Arunachalam
 Qualification : BE Mining
 Appointment/ : 15/07/2015
 Termination date

6. Date of approval of Mining : MP modif under MCR 1960 28/09/2015
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 12/01/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	29 nos of core boreholes with 1590 total meterage	29 nos of core boreholes with 1600 total meterage	NIL
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Entire potential area is covered under G-1 stage as per approved modified MP dated 12/01/2018.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	M/s Holtech Consultancy Pvt. Ltd Rs. 55.05 lakhs	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1	G-1	Entire potential area is covered under G-1 stage as per approved modified MP dated 12/01/2018.
1e	Balance reserve as on 01/04/20	-----	165.66 million tonnes (Cement Grade)	Based on approved modified MP dated 12/1/2018.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	100 nos of core boreholes with 5,311 total meterage and 34 nos DTH boreholes with 1302 total meterage drilled so far. Entire potential area is covered under G-1 stage as per approved modified MP dated 12/01/2018.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South eastern side w.r.t. lease area.	South eastern side w.r.t. lease area.	NIL

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One top-soil bench of 0.5 m.	One top-soil bench of 0.5 m.	There is no OB waste in this mine.
2c	Stripping ratio or ore to OB ratio	1: 0.04	1: 0.06	NIL
2d	Quantity of topsoil generation in m3	51,629	53,477	Modified MP approved on 12/01/2018.
2e	Quantity of overburden generation in m3	NIL	NIL	There is no OB waste in this mine.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Development of pit is being carried out as per approved MP and their modifications.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One pit	NIL
3b	Quantity of ROM mineral production proposed	3.04 million tonnes	2.18 million tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	NIL
3d	Quantity of mineral reject generation	NIL	NIL	No Mineral reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub-grade mineral generation.
3g	Grade of sub grade mineral generation	NA	NA	NIL

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Yes. Deep-hole drilling and blasting for exploitation of ore.	Carried out as per proposals.	NIL
3k	Provision of mining machineries in mineral benches	Excavators & dumpers/tipper s combination.	Excavators & dumpers/tippers combination.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	0.5 m in top- soil bench and 8 m in Mineral Benches	0.5 m in top-soil bench and 8 m in Mineral Benches	NIL
3m	Total area covered under excavation/pits	23.25 Ha	19.43 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.04	1:0.06	NIL
3o	Total area put in use under different heads at the end of year	Pit: 23.25 Ha Dump: 2.63 Ha Road: 5.05 Ha Infrastructure : 0.6 Ha Crusher Plant: 1.49 Ha	Pit: 19.43 Ha Dump: 2.03 Ha Road: 5.05 Ha Infrastructure: 0.6 Ha Crusher Plant: 1.49 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 1.79 2016-17: 2.17 2017-18: 3.04	2015-16: 0.62 2016-17: 2.12 2017-18: 2.18	Unit: In Million tonnes and Mining operation started on 12/8/2015.
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Mining operation and method are being carried out as per approved MP and their modifications.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil of 51,629 cu.m	Separate dumping of top soil of 53,477 cu.m	Mining Plan modified on 12/01/2018.
4b	Location of topsoil, OB and mineral reject dumps	West-central part of ML near to seasonal Nala.	West-central part of ML near to seasonal Nala.	As per approved modified MP dated 12/01/2018.
4c	Number of dumps within lease area and outside of lease area	One within ML.	One within ML.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	In non-mining/safety zone area as per approved modified MP.	Carried out as per proposals.	NIL
4e	Number of active and alive dumps.	One	One	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland drain all along dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	Stone Pitching of Nala bank of 2900 sqm area (near dump location) has been completed.
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	----- --	-----	Waste dump management is being carried out as per approved modified MP.

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	NIL	Existing pit not matured for backfilling.

5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil proposed to be utilised for plantation purpose.	Topsoil utilised for plantation purpose.	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----- -	-----	Pit is not matured for back-filling and no sufficient quantity of OB waste available.

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).	1st July of every year.	Submitted on 28/06/2018	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NIL	800 nos saplings planted on dumps so far.	Stone Pitching of Nala bank of 2900 sqm area (near dump location) has been completed.
6g	Cost incurred on watch and care during the year	NIL	16 lakhs including stone pitching.	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Pit not matured for back-filling.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2.3 Ha with 3,000 nos of saplings.	2.3 Ha with 3,159 nos of saplings.	Safety-zone
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Afforestation.	Afforestation.	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level.	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level are being carried out and all parameters are within limit.	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	The lessee had carried out PMCP proposals as per the proposals. The V/L issued on 9/11/2018 regarding wrongly reflection of back-filling in Yearly report.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to their captive cement plant.	Direct ROM dispatch to their captive cement plant of having 2 mtpa clinker production capacity.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Cross belt analyser installed at conveyor belt.
7c	Different grade of mineral sorted out at mines.	Direct ROM dispatch to Cursher	Direct ROM dispatch to Cursher having capacity 1200 TPH.	NIL
7d	Any beneficiation process at mines .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Beneficiation of Limestone is not required and entire ROM produced is being utilized with proper blending in their cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top-soil proposed to be stacked and utilised for plantation.	Top-soil is being stacked and utilised for plantation.	NIL

8b	Concurrent use or storage of topsoil	Stacked/dumped at West-central part of ML near to seasonal Nala.	Stacked/dumped at West-central part of ML near to seasonal Nala.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	There is no OB, waste rock, rejects and fines.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Ore not exhausted and pit not matured for back-filling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos saplings proposed within ML	3,159 nos of saplings planted within ML with cumulative plantation of 9,159 nos of saplings.	NIL
8g	Survival rate	80 %	80 %	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	The regular dust suppression by water tankers/sprinkling of water is made in the mine.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	The aesthetic beauty in and around mine is good as lessee had carried out the afforestation and other environmental protective measures as per approved Modified MP.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MRs upto Setp- 2018 & AR year 2017-18 were received.	Submission of MRs and ARs were regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri K. Arunachalam, MM Shri Amarnath Reddy, ME Shri Abdul Hafeez R Shaikh, Geologist	Shri K. Arunachalam, MM Shri Amarnath Reddy, ME	V/L letter issued on 9/11/18 for non-appointment of Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 19.43 Ha. Dump: 2.03 Ha Road, plant & Infrastructure : 7.14 Ha	Actual also same.	NIL
9d	Scrutiny of Annual return on afforestation	3,159 nos saplings	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock was NIL	Actual also same.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production per tonne was Rs 159=90	Actual also appear to be same as captive mine.	NIL
9h	Scrutiny of Annual return on fixed assets	Rs 1559,66,24,077	Actual also appear to be same.	NIL
9k	Scrutiny of Annual return on mining machineries	Hy. Shovel (2.1 cum): 4 nos Tippers (10 cum): 16 nos Dozer: 1 nos Rock Drill: 1 nos Water Tanker: 1 nos	Actual also same.	NIL

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 26(2)	09/11/2018				
Rule 45(7)	09/11/2018				
MCDR17 Rule 55(1)(3)	09/11/2018				

Date :

(PRASHANT S HEGDE)

Indian Bureau of Mines