

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-91/GOA

**Mine code :** 38KAR26071

- (i) Name of the Inspecting : **K07** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Veerendra R. Mathod- Lessee  
Official with  
Designation
- (iv) Date of Inspection : 04-MAR-20
- (v) Prev.inspection date : 06-MAR-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MUDDAPUR (M.L.NO.2589)**
- (b) **Registration NO.** : **IBM/865/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BAGALKOT**
- Village : **Muddapur**
- Taluka :
- Post office : **Lokapur**
- Pin Code : **22**
- FAX No. :
- E-mail : **rkt.rkm60@yahoo.com**
- Phone : **9845531062**
- (f) **Police Station** : **LOKAPUR**
- (g) **First opening date** : **30-JAN-09**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **AT & PO- LOKAPUR-587122**  
**correspondance** **TQ-MUDHOL**  
**DIST- BAGALKOT, KARNATAKA**
3. (a) **Lease Number** : **KAR1564**
- (b) **Lease area** : **4.85**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **25-MAY-34**
4. **Mineral worked** : **DOLOMITE** **Associated**  
**LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : VEERENDRA R. MATHAD  
 Bin R.K.Mathad Near  
 Daneshwari Math Lokapur,  
 Tq- Mudhol BAGALKOT  
 KARNATAKA  
 Phone:09448127238  
 FAX :

Owner : V.R.MATHAD  
 AT & PO- LOKAPUR TQ-MUDHOL  
 BAGALKOT KARNATAKA  
 Phone:  
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01-FEB-08
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05-MAY-14
		MP review under 17(1) MCR 2016	25-JAN-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2018-19	Nil during 2018-19.	06 nos. of core boreholes drilled by the lessee during 2015-16
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed.	G1 achieved.	
1e	Balance reserve as on 01/04/20		2.5 million tonnes of Limestone	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area was explored by the lessee under G1 level by drilling with 6 nos. of core boreholes, total meterage drilled 209m.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1791290 to N 1791430, E 531080 to E 531200	No change in development location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed in ore only.	Found to be maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.05	1:0.02	Stripping ratio was not found maintained, violation of rule 11(1) issued to the lessee.
2d	Quantity of topsoil generation in m3	No proposal	No top soil generation during 2018-19	

2e	Quantity of overburden generation in m3	1278 m3	210 m3	OB waste is mainly consists of intercalated waste; BD 2.0 t/m3.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Stripping ratio during F.Y. 2018-19 has been proposed to be maintained at 1: 0.05 but actually it was maintained at 1:0.02 because of less waste handling in 2018-19. Violation of Rule 11(1) issued to the lessee dated 23.03.2020.	

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit.	Dimension of pit: 180m x 80m x 7m.
3b	Quantity of ROM mineral production proposed	48,575 tonnes of Limestone	20,779 tonnes	Due to low market demand production was less than proposal.
3c	Recovery of sailable/usable mineral from ROM production	95% proposed for Limestone	98% recovery in 2018-19.	
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation during 2018-19.	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual mining proposed	Manual mining.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Jack hammer drilling and blasting by using slurry and ANFO.	
3k	Provision of mining machineries in mineral benches	No proposal	Nil as manual mining operation adopted.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height proposed	Average bench height 3m maintained.	
3m	Total area covered under excavation/pits	2.5 Ha. at the end of approved RMP period (2022-23)	1.44 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1:0.02	Stripping ratio was not found maintained, violation of rule 11(1) issued to the lessee.
3o	Total area put in use under different heads at the end of year	Total 2.86 Ha. at the end of approved RMP period (2022-23)	Mining: 1.44 Mineral stock: 0.20 Road and Infrastructure: 0.06 Safety zone: 0.49 (in Ha.)	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 33,800 2015-16: 33,072 2016-17: 33,150 2017-18: 34,320 2018-19: 48,575 ( in tonnes)	2014-15: 10,000 2015-16: 33,072 2016-17: 33,072 2017-18: 33,072 2018-19: 20,779 ( in tonnes)	

3q	General remarks of inspecting officers on method of mining etc.	The mine was working manually; the benches were maintained as per proposal. Due to low market demand ROM production was less than proposal in the year 2018-19.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate disposal of waste was proposed to construct safety bund along the ML boundary.	Generated waste quantity was very less and it was utilized to make safety bund along the ML boundary	No mineral reject and top soil generated during 2018-19.
4b	Location of topsoil, OB and mineral reject dumps	OB proposed to make safety bund along the ML boundary.	OB utilized to make safety bund along the ML boundary as per proposal.	Height of the bund was 1m.
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal for waste dumping	Not applicable.	
4e	Number of active and alive dumps.	No proposal	Not applicable.	
4f	Number of dead dumps.	No proposal	No dead dump within ML area.	
4g	Number of dumps established.	No proposal	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Parapet wall/bund proposed along the ML boundary	Constructed as per the proposal.	
4i	Length of Retaining wall or garland drain all along dumps	50m length of parapet wall/ bund proposed.	Constructed as per the proposal.	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Generated waste was utilized to make embankment along the safety barrier and for repairing of mine haul roads.
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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.	No proposal	Nil as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil proposed.	No top soil generation during 2018-19.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.	

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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).	Proposed	Submitted for F.Y. 2018-19 on 24/09/2019.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.05 Ha. proposed.	0.05 Ha. along ML boundary	

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6d	No. of saplings planted during the year	50 nos. proposed.	100 nos. within ML area.
6e	Cumulative no .of plants	Not specified.	Apprx. 850 nos. within ML area along the safety barrier.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs. 5,000/- proposed.	Rs. 5,000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Not applicable



6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to be carried out twice a year.	Carried out on half yearly basis by the lessee and parameters were found within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine was working manually and impact on environment is negligible. However monitoring was carried out as per schedule through approved third party and reports were maintained at mine office.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM dispatch after manual sorting and sizing.	4040.840 tonnes of BF grade Limestone and 9862.170 tonnes of Cement grade Limestone were dispatched in the year 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical by crushing and dry screening plant.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	BF grade and cement grade Limestone.	
7d	Any beneficiation process at mines	No such proposal given	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Lessee was doing only crushing and dry screening and maintaining different sized material as per the requirement of the buyers. Lessee was also blending the Low grade ROM with the high grade material as per the market requirement.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	No top soil generation during 2018-19.	
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste not proposed	Generated waste was utilized to make safety bund along the ML boundary.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit was not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 850 nos. saplings were planted within ML so far along the safety barrier.	
8g	Survival rate	Not specified.	60 to 70%	

8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker mounted tractor sprinkling arrangement on mine road made.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area is good and impact on environment due to mining operation is very less due to small scale manual mining operation.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Feb. 2020 & A.R. Submitted up to 2018-2019.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil information furnished for mining engineer and for Geologist. Manager: Shri Govindashetty	No part-time Mining Engineer and part-time Geologist were found appointed	Violation of rule 55(1) (3) was issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 1.49 Waste disposal: 0.05 Road & Infrastructure : 0.06 Safety zone & green belt: 0.075 (in Ha.)	Mining: 1.44 Mineral stock: 0.20 Road & Infrastructure: 0.06 Safety zone: 0.49 (in Ha.)	Lessee was advised to correct land use pattern based on survey.
9d	Scrutiny of Annual return on afforestation	100 nos. within ML area	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore Stocks, BF grade Limestone: 5262.946 tonnes and Cement grade Limestone: 12668.296 tonnes	Actual was also same at that time. On the day of inspection 7830 tonnes of BF grade and 6430 tonnes of Cement grade Limestone grade ore stocks were observed at mine head.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs. 674.81/ tonne for BF grade Limestone & Rs. 462.15 / tonne for Cement grade Limestone. Production cost: Rs. 353/ tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Net closing balance mentioned as Rs. 4875,847/-	Appear to be correct.
9k	Scrutiny of Annual return on mining machineries	01 no. of Air Compressor.	No change, manual mining operation.

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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)	23-MAR-20			
MCDR17	Rule 31(4)	23-MAR-20			
MCDR17	Rule 55(1)(3)	23-MAR-20			

**Date :**

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines