

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-105/GOA

Mine code : 38KAR26088

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri. V.R.Mathad, Lessee
Official with
Designation
- (iv) Date of Inspection : 08-JAN-19
- (v) Prev.inspection date : 06-MAR-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUDDAPUR LIME & DOL MINE**
- (b) **Registration NO.** : **IBM/865/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : MUDDAPUR
Taluka : MUDHOL
Post office :
Pin Code : 587122
FAX No. :
E-mail : rkt.rkm60@yahoo.com
Phone : 9448127238,9845531062
- (f) Police Station :
- (g) First opening date : 16-OCT-14
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE-MUDDAPUR,
correspondance : TALUKA-MUDHOL,
DISTRICT-BAGALKOT, KARNATAKA-587122.
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 : 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	:	Modif.of approved Mining Plan	30-AUG-11

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 DTH boreholes are proposed in plan period.	4 Core Boreholes has been drilled during 2016-2017	
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	4 - Core boreholes were carried out in the lease area for Geological axis - 1, during 2016-2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were used for Exploration in the past.	4 boreholes were drilled during 2016. Total Rs. 1.70 lakhs was spent on exploration.	4 DDH with 120 meters has been drilled upto 2016-2017. Total expenditure towards exploration is 1.70 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval.	Exploration was carried out at 100m X 100m grid interval.	Entire area has been explored and under G-1.
1e	Balance reserve as on 01/04/20	As on 01.04.2018 Proved Mineral Reserves (111) = 27914 tons Pre-Feasibility Mineral Resources (221) = 27286 Tons Inferred Mineral Resources (333) = 861263 Tons.	As on 01.04.2018 Proved Mineral Reserves (111) = 73488 tons Pre-Feasibility Mineral Resources (221) = 27286 Tons Inferred Mineral Resources (333) = 861263 Tons.	
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Kaladgi basin which belongs to Upper Cuddapag system	The deposit is litho unit of Lokapur sub group of Bagalkot group which belongs to Kaladgi Super group	Geologically the top most area is more disturbed by Murram with Limestone

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2017-2018, the working proposal was in between AA'-BB'. 2018-2019 working proposal was in between AA'-BB'.	In 2017-2018, Working was carried out as per the proposal. During 2018-2019, new bench has been formed in proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches in OB & Mineral.	Working has been carried out as per the proposal.	
2c	Stripping ratio or ore to OB ratio	1 : 0.11	1 : 0.052	
2d	Quantity of topsoil generation in m3	1461 tons Proposed during 2017-2018	3000 tons of topsoil generation in 2017-2018	
2e	Quantity of overburden generation in m3	OB waste is only Intercalated waste. During 2017-2018 it is proposed 1266 Cu.m/ 2532 tons	600 Cu.m/ 1200 tons of waste have been achieved.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 2532 tons of intercalated waste for 2017-2018	1200 tons waste has been achieved during 2018-2019	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development and production was proposed in Pit-1.	Development and production are carried out in single pit.	

3b	Quantity of ROM mineral production proposed	The total target of Production was 22787 tons during 2017-2018.	22787 tons of Limestone
3c	Recovery of sailable/usable mineral from ROM production	90%	80%
3d	Quantity of mineral reject generation	There is no Mineral Reject generation	There is no Mineral Reject generation
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Method	Manual Method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Only Manual Picking of Ore from Intercalated Waste

3j	Provision of drilling and blasting in mineral benches	Spacing - 1.00m Burden - 0.900m Depth - 1.50m It is Proposed to drill by Jack Hammer and blasting by using Slurry & ANFO	As per proposal the Drilling & Blasting are done
3k	Provision of mining machineries in mineral benches	Jack Hammer - 1 Tracker Compressor - 1 Water Tanker - 1 Tippers - 2	Jack Hammer - 1 Tracker Compressor - 1 Water Tanker - 1 Tippers - 2
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 3m was proposed in Mineral.	Bench Height 3 - 4 m.
3m	Total area covered under excavation/pits	1.50 hect area is proposed for Pit during 2017-2018	1.00 hect areas are under Pit only.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.11	1 : 0.05
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2018. Mines = 1.50 hect Dump = 0.20 hect Infra = 0.01 hect Roads = 0.120 hect	Land use Pattern as on 01.04.2018. Mines = 1.00 hect Dump = 0.20 hect Infra = 0.01 hect Roads = 0.110 hect

3p	Production of ROM mineral during the last five year period as applicable	2017-2018 = 22787 tons 2016-2017 = 22787 tons 2015-2016 = 22787 tons 2014-2015 = 22787 tons	2017-2018 = 22787 tons 2016-2017 = 22787 tons	Lease grant on 26.05.2014
3q	General remarks of inspecting officers on method of mining etc.	Manual Method	Manual Method	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed for Intercalated waste 2017-2018	Dumping has been not done as per proposal	Violation has pointed out under Rule 11 (1)
4b	Location of topsoil, OB and mineral reject dumps	Waste dump has been proposed in Southern side of the lease area	No Dumping in the proposed area	Violation has pointed out under Rule 11 (1)
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	No Proposal	Nil	
4f	Number of dead dumps.	No Proposal	Nil	
4g	Number of dumps established.	No Proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	It is proposed for 0.046 hect to form Terracing wall	Nil	Violation has pointed out under Rule 11 (1)
4i	Length of Retaining wall or garland drain all along dumps	Terracing wall proposed for 0.046 hect	Nil	Violation has pointed out under Rule 11 (1)
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Waste dump has been proposed in Southern side of the lease area	Dumping has been not done as per proposal	

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 for Back filling	No backfilling done	Ore is not extracted upto the proved depth and no backfilling are proposed in the present plan period.
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)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Backfilling	Ore is not extracted upto the proved depth and no backfilling are proposed in the present plan period.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It should be on or before 1st July every year.	Submitted for the year 2017-2018	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Proposed 0.37 hect in 2017-2018	0.111 hect achieved in 2017-2018	
6d	No. of saplings planted during the year	50 saplings for 2017-2018	50 saplings achieved during 2017-2018	
6e	Cumulative no .of plants	200 nos proposed from 2014-2015 to 2017-2018	120 nos achieved	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
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 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	50 saplings for 2017-2018	50 saplings achieved during 2017-2018	Cumulatively 120 nos of saplings have planted upto 2017-2018
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Proposed 0.37 hect in 2017-2018	0.11 hect achieved in 2017-2018	
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)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Cumulatively 120 nos of saplings have planted upto 2017-2018	Environment monitoring is carried out through own as well as private agency.	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	25319 tons ROM/ 22787 tons Saleable Ore	23987 tons ROM/ 22787 tons Saleable Ore
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	CaO = +46% MgO = 1-2% SiO2 = 5-7%	CaO = +46% MgO = 1-2% SiO2 = 5-7%
7d	Any beneficiation process at mines .	Manually sorting and sizing proposed	Manually sorting and sizing is being done
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Manually sorting and sizing is being done	Lessee is using all the ore by blending with high grade ore. As per buyers specification

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is proposal for 1461 tons of Topsoil for separately remove and utilized.	3000 tons of Topsoil generation during 2017 - 2018.	
8b	Concurrent use or storage of topsoil	Storage	Storage	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for intercalated waste in the Southern side of lease area.	As per proposal no waste dump has been formed	Violation has pointed out under Rule 11 (1)

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	Nil	
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)	500 saplings per year	Lessee has planted 50 plants during 2017-2018	Cumulatively 120 plants has been planted during 2014-2018
8g	Survival rate	60%	65%	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Surrounding area beyond lease area is greenery	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = December 2018 AR Submitted up to = 2017-2018	Both Annual & Monthly returns are submitting in online system.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer, Geologist	Only Mines mate is working as Permit Manager	It is advised to appoint Mining engineer/ Geologist. Violation has pointed out under Rule 55(1)(3)(iv)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining = 1.00 hect Infra/ Road = 0.110 hect Green Belt = 0.111 hect	Landuse Pattern is filled as per in field.	
9d	Scrutiny of Annual return on afforestation	50 Plants planted	Lessee has planted 50 saplings inside lease area during 2017-2018, with 65% Survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	8314 tons has been stocked with Cao=+46% Grade.	Mine has produced 22787 tons of Production during 2017-2018	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Rs.305/- per tons	Nil	
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled Properly	
9k	Scrutiny of Annual return on mining machineries	Machineries details given	As available in field	

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
MCDR17	Rule 11(1)	22-JAN-19			
MCDR17	Rule 11(4)	22-JAN-19			
MCDR17	Rule 33	22-JAN-19			
MCDR17	Rule 55(1)(3)	22-JAN-19			

Date :

(G. S. KANNAN)

Indian Bureau of Mines