

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BJP/DOL-13/GOA

Mine code : 19KAR26016

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri G.A Narasimha Murthy, Mines Manager & Shri Babu H
Official with
Designation
- (iv) Date of Inspection : 04/01/2015
- (v) Prev.inspection date : 17/10/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHIRUR DOLOMITE MINE (M.L)**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 08354-221408
- E-mail : shirur.dolomiteminest@redif:
- Phone : 08354-420409
- (e) Police Station : BAGALKOT
- (f) First opening date : 25/06/2009
2. Address for : ML. NO. 2606; AT-SHIRUR
correspondance PO-BAGALKOT, TQ & DIST- BAGALKOT
KARNATAKA
3. (a) Lease Number : KAR1212
- (b) Lease area : 1.62
- (c) Period of lease : 20
- (d) Date of Expiry : 12/07/2020
4. Mineral worked : DOLOMITE Main

5. Name and Address of the

Lessee : SHIVANAND S. MELLIGERI
 EXTENSION AREA, BAGALKOT,
 KARNATAKA. BAGALKOT
 KARNATAKA
 Phone:
 FAX :

Owner : S.S. MELLIGERI
 Extension Area Bagalkot
 Karnataka BAGALKOT
 KARNATAKA
 Phone:
 FAX :

Manager

Name : G.S.Narasimha Murthy
 Qualification : S.S.L.C. with I st Class Mine Manager ce
 Appointment/ : 01/07/2009
 Termination date

6. Date of approval of Mining : 12/09/2014
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	2	305
Supervisory	1	305
CONTRACT		
Workers	8	305
Others	5	305

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Housing	0.00	0.00	0.00	0.00	
Health	0.00	0.00	0.00	0.00	
Water supply	0.00	0.00	0.00	0.00	
Sanitation	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.00	0.00	
Medical facility	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Infrastructure					
Roads	0.00	0.00	0.00	0.00	
Public transport	0.00	0.00	0.00	0.00	
Communication	0.00	0.00	0.00	0.00	
Electricity	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	0.00	0.00	
Sports activities	0.00	0.00	0.00	0.00	
Training	0.00	0.00	0.00	0.00	
Recreation	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.00	0.00	
Environment management	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

The mine was last inspected on 17.10.2013 and violation under rule 13(1) & 42(1)(c)(ii) has been point out & compliaed. Recently Mine was Inspected under MCDR inspection on 04.01.2015 based on that violation under rule 13(1),23(E)(2) & 63 has been point out and issued to Lessee

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 19888, if recommended.

Suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 is not recommended. However, if lessee failed to comply rule 13(1) within stipulated time, follow up action will be initiated for logical end.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting : Nil and exploration i.e. pitting, drilling		Nil	2 Boreholes has been drilled 2011-2012 & Form-J submitted
b.Total area covered : Nil		Nil	

B. Working (Rule 13)

a.Number and size of each pit (LxWxH) : 220m * 90m * 9m		200m * 100m * 9m	
b.Bench : Regular size(LxWxH)length can be defined as regular/irregular		Rgular	
c.Ore to waste ratio : 1 : 0.09 pit wise if possible otherwise for mine		1 :0.125	
d.Total area covered : 2.58 Hect under excavation/pits		1.33 Hect	

C. Waste disposal (Rule 13)

a.Location of dumps : It was proposed to use dump for bund formation along safety boundary		It was utilised for bund formation along safety boundary	
e.Yearly generation of waste quantity. : 3000 Tons		3000 Tons	
b.Method of dumping : Advancing on bund whether advancing/retreat		Advancing on bund	
c.Total area covered : 0.10 hectares under waste dump.		0.10 hectares	
d.No.and size of each waste dump with No of steps/lift/bench : Single dump with single step		Single dump with single step	

D. Production

b.Year wise production of last five year. : 2009-2010 = 3000 Tons 2010-2011 = 60000 Tons 2011-2012 = 60000 Tons 2012-2013 = 60000 Tons 2013-2014 = 60000 Tons		2009-2010 = 3295 Tons 2010-2011 = 3900 Tons 2011-2012 = 600 Tons 2012-2013 = 22500 Tons 2013-2014 = 24000 Tons	
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D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection. : As per Approved MP 2011 Proved (111) = 964604 Tons		As per Inspection 2014 Proved (111) = 861247 Tons Possible (122) = 636476 Tons	
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Possible (122) = Tons
 1056635 Tons Probable (333) = 1433669
 Probable (333) = Tons
 1056635 Tons

RESERVE POSITION AS ON 01/04/2014

DOLOMITE		
Category	Quantity in Tonnes	Grade
Proved	861247	MgO=21.23%, CaO=29.76%
Probable	636476	MgO=21.23%, CaO=29.76%
Possible	1433669	MgO=21.23%, CaO=29.76%
Total	2931392	MgO=21.23%, CaO=29.76%

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
DOLOMITE	24000	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : Subgrade ore produced is suitably blended with high grade

Efforts for improving percentage of recovery of ore. : Subgrade ore produced is suitably blended with high grade

Mineral Rule 15

Percentage of recovery of ore : 90%
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : Three bench in ore

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : 3000 Tons

Number and size of each stack : Utilized to form the bund to length of 600m along lease boundary

Location of stacking. : It was proposed to use waste for bund formation along safety boundary

Separate stacking from waste : It was proposed to use waste for bund formation along safety boundary

Total area covered for stacking : It was proposed to use dump for bund formation along safety boundary

Exploration data as on 31/03/ 2014

No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overburden/waste removed (in m3) : 0

Utilisation of Sub Grade Mineral and Mineral Rejects

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)

7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : Flat undulated terrain with soil cover
- b. Aesthetic environment : Degraded mining land
- c. Soil and land use pattern : Thin soil is present at some places
- Landuse Pattern
Area under Mining = 1.33 Hect
Dump = 0.13 Hect
Building = 0.02 Hect
Roads = 0.13 Hect
7.5m Safety Zone = 0.47 Hect
Unused area = 2.17 Hect
- d. Agriculture : Seasonal Crops of Jawar, Sugarcane
- e. Forest(flora and fauna) : Non Forest land
- f. Vegetation : Scanty vegetation, bushes, neem are observed in lease area
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None

B Water environment.

- a. Surface water : No perennial water courses observed in existing ML area
- b. Ground water : No seepage of ground water observed
- c. Quality of water : Nothing adverse is reported

C. Air environment

- a. Noise : survey has been done, nothing adverse is reported
- b. Air : survey has been done, nothing adverse is reported
- c. Climatic condition : survey has been done, nothing adverse is reported

D. Socio economic environment

- a. Social and demographic profile. : The population of rural background exists in nearby villages/ area with main occupation of agriculture and animal rearing
- b. Recommending health and safety. : Shelter room, first aid station is available in mine area. Hospitals/Clinics are existing at Bagalkot at 30km away from ML
- c. Human settlement : There are 5 villages are existing within 5km radius from ML
- d. Recreational facility. : Available at Bagalkot taluka HQ

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

Season	Station type	Station name	<u>Water Management</u>	
			Parameter	Value Actual Excess

Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2013 - 2014

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2014

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Scrutiny of annual Return 2013-2014

Production has not been mentioned in Part-VI, Reserves not matching

Cost of Operation = Rs.265/-

Pit mouth Value = Rs.110/-

Opening Stock = 2552 Tons

Production = 240000 Tons

Closing Stock = 1859 tons

Despatch = 24693 Tons

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

Mining Lease No:- 2606
Lease area:- 4.25 Ha
Lease Period:- 20 Years
Dt of grant:- 31.03.2009
Dt of Expiry :- 30.03.2029
Name of Lessee:- Shri.Shivanada S Melligeri
Name of Mine:- Shirur Dolomite Mine
Location:- Thimmapur Village, Mudhol Taluka, Bagalkot District, karnataka

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

Nil

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

Nil

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

Nil

Date :

(G. S. KANNAN)

Indian Bureau of Mines