

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

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BJP/DOL-4/GOA

Mine code : 19KAR26006

- (i) Name of the Inspecting : **KQ2**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri G Narsimha Murthy Mines Manager
Official with
Designation
- (iv) Date of Inspection : 18/11/2014
- (v) Prev.inspection date : 17/10/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHIRUR (ML 2274)**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : KARNATAKA
District : BAGALKOT
Village : SHIRUR
Taluka : MUDHOL
Post office :
Pin Code :
FAX No. : 08354-221408
E-mail : shirur.dolomitmines@redif:
Phone : 08354-420409
- (e) Police Station : Bagalkot
- (f) First opening date : 01/09/2000
2. Address for : Shirur Dolomite Mine of S.S. Malligeri
correspondance At- Shirur
Tq & Dist-Bagalkot
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 : MELLIGERI & SONS
 S.S. Melligeri Extension
 Area Bagalkot 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

Manager

Name : M.C.GOPALSWAMY
 Qualification : BA With Mine Foreman Certificate
 Appointment/ : 01/07/2006 30/06/2009
 Termination date

6. Date of approval of Mining : 18/09/2014
 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	1	307
Supervisory	3	307
Others	3	307
Ministrial	0	0
Plant	5	307
Workers	9	307

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					
Sanitation	0.00	0.00	0.00	0.00	
Housing	0.00	0.00	0.00	0.00	
Water supply	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.00	0.00	
Health	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					
Electricity	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	
Roads	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	19.26	0.00	includes salarie
Recreation	0.00	0.00	0.00	0.00	
Environment management	0.00	0.00	0.05	0.00	for plantation
Others	0.00	0.00	0.25	0.00	for temple & sch
Training	0.00	0.00	0.00	0.00	
Sports activities	0.00	0.00	0.00	0.00	
Total	0.00	0.00	19.56	0.00	

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

Previously the mine was inspected by ACOM on 17.10.13 & No outstanding violations were observed. During present inspection violation of rule 42 (1)(c)(i) of MCDR-1988 is noticed & violation letter is issued for the same for rectification.

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, 1988, if recommended.

Action will be taken if non compliance of violation of above said rule.

5. Scientific Mining

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

a.Type of prospecting and exploration i.e. pitting, drilling	: It was proposed to drill two core boreholes up to a depth of 50m each during the year 2014-15.	No such exploration was commenced by the lessee.	Since the financial year 2014-15 is in running violation for the same is not pointed out.
b.Total area covered	: 0.70ha	Exploration work is not commenced by the lessee.	Earlier two DTH holes were drilled covering an area of 0.5ha

B. Working (Rule 13)

a.Number and size of each pit (LxWxH)	: 130m(l) x 40m(w) x 15m(h)	130m(l) x 50m(w) x 16m(h)	Pit dimension includes old workings also.
b.Bench size(LxWxH)length can be defined as regular/irregular	: 130m(l) x 7m(w) x 3m(h) Regular.	130m(l) x 8m(w) x 3.5m(h) Regular	
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:0.04	1:0.1	
d.Total area covered under excavation/pits	: 0.52Ha	0.60Ha.(2014-15)	Entire area is broken up by mining.

C. Waste disposal (Rule 13)

a.Location of dumps	: It is proposed to dump in the safety zone of North - Eastern part of the lease.	No rejection was handled up to september 2014.	Old dumps are exists in the southern part of the lease No-2606 & eastern part of the lease 2422(out side the lease). The eastern part dump is levelled & fruit bearing plantaion is made on that.
e.Yearly generation of waste quantity.	: 1056 tons(2014-15)	Nil (2014-15)	In 2013-14 lessee has removed 3700 tons of OB.
b.Method of dumping	: proposed to make	No rejection is handled	

whether bund in safety during 2014-15 upto
 advancing/retreat zone. september 14.

c.Total area covered : 0.045ha in 7.5m No dumping is done.
 under waste dump. safety zone.

d.No.and size of each : 60m (l) x 7.5m(w) No dumping is done.
 waste dump with No of
 steps/lift/bench

D. Production

b.Year wise	: 2014-15	2014-15
production of last	28000 tons	22000 tons (upto sep14)
five year.	2013-14	2013-14
	65000 tons	37000 tons
	2012-13	2012-13
	65000 tons	46000 tons
	2011-12	2011-12
	65000 tons	49900 tons
	2010-11	2010-11
	65000 tons	56794 tons.

D. Reserve

a.Reserve position as :	Classification	UNFC	Balance
per latest MP/MS and	code	Quantity in tons	reserves on the
at the time of	Proved Reserves	111	day of
inspection.		221262	inspection.
	Probable Reserves	122	
		449817	
	Inferred Resources	333	
		297053	

RESERVE POSITION AS ON 01/04/2014

DOLOMITE		
Category	Quantity in Tonnes	Grade
Proved	243262	
Probable	449817	
Possible	297053	
Total	990132	Cao 29.5 to 30.08%, Mgo-18.55 to 20.36%.

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
DOLOMITE	37000	TON

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

Efforts for improving low grade and sub grade mineral. : Nil.

Efforts for improving percentage of recovery of ore. : Nil.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 95%

Number of benches in ore and waste. : Five benches in ore only.

Sub/grade mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : Nil.

Number and size of each stack : Nil.

Location of stacking. : Nil.

Separate stacking from waste : No subgrade generation was observed in the mine.

Total area covered for stacking : Nil.

Exploration data as on 31/03/ 2014

No. of Boreholes	No. of Pits	No. of Trenches
2	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overburden/waste removed (in m3) :	1850
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Utilisation of Sub Grade Mineral and Mineral Rejects

Generated	Utilised	Stacked	(In Ton.)

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

- a. Landscape. : Plain terrain with rocky exposures.
- b. Aesthetic environment : Total area is degraded by mining & benches are systematically developed.
- c. Soil and land use pattern : No top soil in the lease area.
- d. Agriculture : Sugarcane , Maize, Jowarare the major crops of the area.
- e. Forest(flora and fauna) : No forest in the lease area.
- f. Vegetation : No vegetation is found in the lease area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Nil.

B Water environment.

- a. Surface water : No surface water runoff is observed.
- b. Ground water : Water table is at the depth of 200-250 ft.
- c. Quality of water : Lessee is providing filter water for drinking.

C. Air environment

- a. Noise : Mining operation is in small scale so no adverse effect is noticed.
- b. Air : Mining operation is in small scale so no adverse effect is noticed.
- c. Climatic condition : The climate is warm and dry throughout the year and rain is scarce. The average rainfall in the region is approximately 350-400mm/annum.

D. Socio economic environment

- a. Social and demographic profile. : Total poulation of the Shirur village is 12623 & population of surrounding villages with 5km from the lease is 26091 & Litrecy rate of the village is about 65-70%.
Agriculture is the major occupation of the people of the area.Mining and cement industries provides employment in small scale.
- b. Recommending health and safety. : Bagalkot is near by city where good medical facilities are available.
- c. Human settlement : No human settlement within the lease area.
- d. Recreational facility. : Nil.

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	Parameter	Actual	Excess
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<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>			<u>2013 - 2014</u>			Area in Hect.
Within lease area			Outside lease area			
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
.04	30	70				

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.

The annual return submitted for the year 2013-14 was produced for the scrutiny and it was observed that the Production & stock of ROM ore at mine head portion i.e, point No-1 of Part-VI was kept blank. Cumulative quantity of waste removed during the 2012-13 is shown as 29160 tons and same for the year 2013-14 is shown as only 8500 tons. The cumulative quantity of waste is shown lesser than the previous year even though lessee has handled about 3700 tons of OB during 2013-14 & no reason was given for how the cumulative quantity of waste become less compare to previous year. The deficiencies observed in the annual returns were show to lessee and advised to send revised returns to this office at the earliest.

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

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 :

(KALMATA M.K.)

Indian Bureau of Mines