

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

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BGK/LST-49/GOA

Mine code : 19KAR26004

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Abaykumar Hemraj Sharma.
Official with
Designation
- (iv) Date of Inspection : 20/11/2013
- (v) Prev.inspection date : 02/09/2002

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VARACHAGAL (ML 2285)**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : VARACHAGAL
- Taluka : MUDHOL
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (e) Police Station :
- (f) First opening date :
2. Address for : Varchagal Dolomite Mine of Shri R. S. Basutkar
correspondance At-Varchagal
Tq- Mudhol, Diat- Bagalkot
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Associated
DOLOMITE Main

5. Name and Address of the

Lessee : SHIVARAJ MINERALS
 L.C. Road At- Lokapur Tq-
 Mudhol BAGALKOT KARNATAKA
 Phone:
 FAX :

Owner : R.S.BASUTKAR
 L.C. Road At- Lokapur Tq-
 Mudhol BAGALKOT KARNATAKA
 Phone:
 FAX :

6. Date of approval of Mining : 12/04/2011
 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	0	0
Supervisory	3	305
Others	0	0
Ministrial	0	0
Plant	0	0
Workers	14	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					
Water supply	0.00	0.00	0.00	0.00	
Sanitation	0.00	0.00	0.00	0.00	
Health	0.00	0.00	0.00	0.00	
Housing	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.00	0.00	
Medical facility	0.00	0.25	0.00		employees medica
Sub total	0.00	0.25	0.00	0.00	
Infrastructure					
Electricity	0.00	0.00	0.00	0.00	
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	
Sub total	0.00	0.00	0.25	0.00	
Recreation	0.00	0.00	0.00	0.00	
Training	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	5.97		
Environment management	0.00	0.00	0.00	0.00	
Sports activities	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.51	0.00	for temple
Total	0.00	0.00	6.73	0.00	

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

Date of inspection	Violation pointed out	Compliance reported	-----
20.11.2013	13(1), 42,27(4)		

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.

5. Scientific Mining

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

a.Type of prospecting : 2 CD holes
and exploration i.e. proposed in the
pitting, drilling year 2011-12.

NIL

B. Working (Rule 13)

a.Number and size of :
each pit (LxWxH)

Pit No-1
91m(L) x 66m(w) x 5m(h)
Pit No-2
44m(L) x 41m(w) x 5m (h)

c.Ore to waste ratio : 1:0.11
pit wise if possible
otherwise for mine

1:0.07

d.Total area covered :
under excavation/pits

0.78 Ha

C. Waste disposal (Rule 13)

a.Location of dumps : Western part of
the lease area.

Western part of the
lease area.

b.Method of dumping :
whether
advancing/retreat

Advanceing.

e.Yearly generation : 5555/ year
of waste quantity.

c.Total area covered :
under waste dump.

0.037Ha.

d.No.and size of each :
waste dump with No of
steps/lift/bench

one dump
approximately 25m length
x 15 width x height less
than 1 meter.

D. Production

b.Year wise : 2010-11
production of last 50000 tones
five year. 2011-12
50000 tones
2012-13
50000 tones
2013-14
50000 tones

2010-11
NIL
2011-12
20883 tones
2012-13
29100 tones
2013-14
12740 tones(upto oct-13)

D. Reserve

a.Reserve position as :
per latest MP/MS and
at the time of
inspection.

Classification
UNFC Code
Tonnes
Mineral Reserves
Proved Mineral Reserve
111
6,48,789
Remaining Resources
Pre-feasibility Mineral
Resources 221
3,53,000

1,76,279
 Inferred Mineral
 Resources 333
 2,93,183

PRODUCTION FOR THE PREVIOUS YEAR		-
Mineral	Production	

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 : 1:0.07

Number of benches in ore and waste. : Two benches in ore.

Sub/grd mineral/fines (Rule16)

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 : NIL

Total area covered for stacking : NIL

Exploration data as on 31/03/

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR -**Utilisation of Sub Grade Mineral and Mineral Rejects**GeneratedUtilisedStacked

(In Ton.)

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

- a. Landscape. : The lease area is a plain terrain with rocky exposures.
- b. Aesthetic environment : The land is degraded by mining. And lease area is surrounded by agriculture lands.
- c. Soil and land use pattern : In un broken up area 0.5 m to 1m is the top soil cover. The available top soil is utilizing for plantation.
- e. Forest(flora and fauna) : There is no forest .
- f. Vegetation : There is no vegetation within 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 : A seasonal nallah is running near eastern part of the lease area & there is no surface water within the lease area.
- b. Ground water : Ground water is at the depth of 200-250 ft.
- c. Quality of water : The lessee is providing filter water for drinking.

C. Air environment

- a. Noise : Manual Mining.Hence impact is negligible.
- b. Air : Manual Mining.Hence impact is negligible.
- 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. : 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. : NIL
- c. Human settlement : NIL
- 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.

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

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

PLANTATION DURING THE PREVIOUS YEAR

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Area in Hect.

TOP SOIL MANAGEMENT
Quantity as on 31/03/

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

Annual Returns 2011-12:-

Cost of operation, :Rs 160/ Metric tone

Reserves:-

Proved(111) :780175 tonnes

Probable(121&122) : 460734

Possible(333) : 460734

Total : 1701643tonnes

Production, :20883

Pit mouth value, : 180

Opening stock, closing stock : OS:1219tons CS: 22102 tons.

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