

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

**MCDR INSPECTION REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-30/GOA

**Mine code :** 38KAR26019

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri.Sarwad, Mine Owner  
Official with  
Designation
- (iv) Date of Inspection : 13/10/2014
- (v) Prev.inspection date : 18/07/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **VERCHAGAL (ML 2308 )**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : VERCHAGAL
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. :
- E-mail :
- Phone : 08350-240640
- (e) Police Station :
- (f) First opening date : 04/06/2001
2. Address for : Varchagal Limestone & Dolomite Mine of S.S. Sarw  
correspondance At- Varchagal Tq- Mudhol  
Dist-Bagalkot
3. (a) Lease Number : KAR1315
- (b) Lease area : 4.86
- (c) Period of lease : 20
- (d) Date of Expiry : 05/02/2021
4. Mineral worked : LIMESTONE Associated  
DOLOMITE Main

## 5. Name and Address of the

Lessee : S.S. SARWAD (M/s SHRINIWAS MINERALS)  
 K.H.B. Colony Mantur Road  
 Mudhol BAGALKOT KARNATAKA  
 Phone:08350-281415  
 FAX :

Owner : S.S. SARWAD (M/s SHRINIWAS MINERALS)  
 K.H.B. Colony Mantur Road  
 Mudhol BAGALKOT KARNATAKA  
 Phone: 08350-281415  
 FAX :

## Geologist

Name : MR.Suresh Katti,Part Time  
 Qualification : M.sc Geology  
 Appointment/ : 01/12/2014  
 Termination date

6. Date of approval of Mining : 15/02/2012  
 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
<b>DIRECT</b>		
Managerial	1	300
Supervisory	1	300
<b>CONTRACT</b>		
Workers	5	300

**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	
<b>General</b>					
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	
Medical facility	0.00	0.00	0.00	0.00	
Housing	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.20	0.10	
<b>Sub total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.20</b>	<b>0.10</b>	
<b>Infrastructure</b>					
Roads	0.00	0.20	0.00	0.20	
Public transport	0.00	0.00	0.00	0.00	
Electricity	0.00	0.00	0.00	0.00	
Communication	0.00	0.00	0.00	0.00	
<b>Sub total</b>	<b>0.00</b>	<b>0.20</b>	<b>0.00</b>	<b>0.20</b>	
<b>Training</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Environment management</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Recreation</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Employment</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Sports activities</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Others</b>	<b>0.00</b>	<b>0.20</b>	<b>0.00</b>	<b>0.25</b>	
<b>Total</b>	<b>0.00</b>	<b>0.60</b>	<b>0.00</b>	<b>0.55</b>	

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

Previously the mine was inspected on 18/07/2013 and suspended on 07/03/2014 under rule 13(1), 42(1)(c)(ii) & 45(5)(b) and it was revoke on 05/05/2014. Recently the Mine was inpected under MCDR Inspection on 13/10/2014 and based on that the following violation under Rule13(1),23E(2),27(4),42(1)(b)(ii),45(5)(b)&63has been pointed out and issued.

If the mine ever prosecuted then date of last judgement with rules for which prosecution launched

Date of Decision : 28/12/2006 Result : Compounded Details :

Fine imposed/Compounding fees collected: 5000 Rules : Rule 12(3)

**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 : No Proposal and exploration i.e. pitting, drilling		2 BH has been drilled during 2013-2014	Proposal was made for the year 2012-2013
b.Total area covered : 4.86 Hectares		4.86 Hectares	

**B. Working (Rule 13)**

a.Number and size of each pit (LxWxH)	Limestone:- 200m x 60m x 14m Dolomite:- 270m x 85m x 17m	Limestone:- 120m x 60m x 8m Dolomite:- 250m x 95m x 13m	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular	Irregular	
c.Ore to waste ratio : 1:0.11 pit wise if possible otherwise for mine		1:0.047	
d.Total area covered : 3.015 Hectares under excavation/pits		About 2.50 Hectares	

**C. Waste disposal (Rule 13)**

a.Location of dumps	: It was proposed to dump waste material at SW of Mining Lease as shown in Plate-6 & Partly used for approach road.	Partly Dump waste material as earmarked ground & using for approach road	
e.Yearly generation of waste quantity.	: 8888 Tons	About 1000 Tons	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	
c.Total area covered under waste dump.	: 140m * 12m/ Year	About 0.25 Ha	
d.No.and size of each waste dump with No of steps/lift/bench	: Single Dump	Single Dump	

**D. Production**

b.Year wise production of last five year.	: Lst/ Dol 2009-2010=30000/ 50000 2010-2011=30000/ 50000 2011-2012=30000/ 44024 2012-2013=30000/ 50000 2013-2014=30000/ 50000	Lst/ Dol 2009-2010=Nil/ 16611 2010-2011=Nil/ 8055 2011-2012=324/ 711 2012-2013=1900/ 2750 2013-2014=8800/ 500	
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**D. Reserve**

a. Reserve position as : Reserves = Lst=328315/  
per latest MP/MS and Lst=250039/ Dol=268018  
at the time of Dol=117255 Resources = Lst=705399/  
inspection. Resources = Dol=393753  
Lst=705399/  
Dol=393753

**RESERVE POSITION AS ON 01/04/2014**

<b>DOLOMITE</b>		
Category	Quantity in Tonnes	Grade
Proved	271279	Cao=29.75%, Mgo=21.57%
Probable	0	Cao=29.75%, Mgo=21.57%
Possible	393753	Cao=29.75%, Mgo=21.57%
Total	665032	Cao=29.75%, Mgo=21.57%
<b>LIMESTONE</b>		
Category	Quantity in Tonnes	Grade
Proved	340039	Cao=46.27%, Mgo=5.44%
Probable	0	Cao=46.27%, Mgo=5.44%
Possible	705399	Cao=46.27%, Mgo=5.44%
Total	1045438	Cao=46.27%, Mgo=5.44%

**PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014**

Mineral	Production	Unit
LIMESTONE	800	TON
DOLOMITE	500	TON

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

Efforts for improving low grade and sub grade mineral. : Lowgrade Mineral is blending with Highgrade materials

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 : About 95%

Number of benches in ore and waste. : Two benches in Dolomite Pit & one bench in Limestone pit

**Sub/grade mineral/fines (Rule 16)**

Qty of yearly generation and total qty available during inspection with grade : No Subgrade Mineral is being generated

Number and size of each stack : No Subgrade Mineral is being generated

Location of stacking. : No Subgrade Mineral is being generated

Separate stacking from waste : No Subgrade Mineral is being generated

Total area covered for stacking : No Subgrade Mineral is being generated

**Exploration data as on 31/03/ 2014**

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

**OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014**

Overburden/waste removed (in m <sup>3</sup> ) :	525
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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. : Topography of the ML area is flat undulating terrain with rockly exposure and interim soil. Northen side there is Reservoir
- b. Aesthetic environment : Degraded Mining land
- c. Soil and land use pattern : Thin layer of top soil
- d. Agriculture : Jawar, Sugarcane
- e. Forest(flora and fauna) : No 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 : Nil

### B Water environment.

- a. Surface water : 100m Northern side there is reservoir and eastern side canal is passing with water. This makes the seepage of water to Pits.
- b. Ground water : Seepage of ground water observed. However near by Canal water seepage is little bit.
- c. Quality of water : Nothing adverse is reported

### C. Air environment

- a. Noise : No survey has been done, nothing adverse is reported
- b. Air : No survey has been done, nothing adverse is reported
- c. Climatic condition : No 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. : Hospitals/Clinics are existing at Lokapur at 15km away from ML
- c. Human settlement : 7 Villages are found with 5kms radius of Mining Lease
- d. Recreational facility. : Available at Lokapur 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	<u>Water Management</u>		Value	
		Station name	Parameter	Actual	Excess

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.

The Annual Returns for the Year 2013-2014 has not been submitted to IBM, Goa office. Accordingly the violation was been point out non submission of AR.

**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 :- 2308  
Lease area:- 4.86 Hectares  
Period of Lease:- 20Years  
Date of Grant:- 02.06.2001  
Date of Expiry:- 01.06.2021  
Name of Mine:- Varchagal Limestone & Dolomite Mine  
Name of Lessee:- Sri.Sudhakar S.Sarwad

**PART - IV : PROPOSALS FOR FURTHER ACTION FOR :**

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

The Lessee has not achieved the target as per proposed in Approved Scheme of Mining, Hence it may be recommended for Modification.

**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