

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

**MCDR INSPECTION REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/DOL-14/GOA

**Mine code :** 19KAR26017

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri.T.V.Kumar (Mine Manager)  
Official with  
Designation
- (iv) Date of Inspection : 07/08/2014
- (v) Prev.inspection date : 12/07/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SHIRUR (M.L.NO.2607)**
- (b) Category : A Other Mechanised
- (c) Type of Working : Opencast
- (d) Postal address  
State : KARNATAKA  
District : BAGALKOT  
Village : SIRUR  
Taluka : BAGALKOT  
Post office :  
Pin Code : 587120  
FAX No. :  
E-mail : seshasai\_mining@yahoo.co.in  
Phone : 9980038349, 9448138349
- (e) Police Station :
- (f) First opening date : 01/12/2009
2. Address for : M/s SESHASAI MINERALS  
correspondance AT-SHIRUR, TQ-BAGALKOT  
DIST-BAGALKOT, KARNATAKA
3. (a) Lease Number : KAR1578  
(b) Lease area : 4.86  
(c) Period of lease : 20  
(d) Date of Expiry : 30/06/2029
4. Mineral worked : DOLOMITE Main

## 5. Name and Address of the

Lessee : SESHAI SAI MINERALS  
 Sy.No 63/1, At & Po-  
 Muddapur TALUKA- MUDHOL  
 BAGALKOT KARNATAKA  
 Phone:+919448138349, 08350-203437 (O)  
 FAX :

Owner : K. SURESH REDDY, PARTNER  
 SY. NO. 63/1, AT-MUDDAPUR  
 TQ-MUDHOL BAGALKOT  
 KARNATAKA  
 Phone: 09448138349  
 FAX :

Agent : A.M.AMBALIMATH  
 C/o M/s Seshai Sai Minerals  
 Sy.No. 63/1, AT & Po-  
 Muddapur Tq-Mudhol BAGALKOT  
 KARNATAKA  
 Phone:  
 FAX :

## Geologist

Name : A S Babu,Part Time  
 Qualification : M.Sc Geology  
 Appointment/ : 14/09/2014  
 Termination date

## Manager

Name : T.V.KUMAR  
 Qualification : MINE FORMEN CERIFICATE HOLDER  
 Appointment/ : 01/12/2009  
 Termination date

6. Date of approval of Mining : 05/03/2014  
 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
<b>DIRECT</b>		
Managerial	2	320
Supervisory	2	320
<b>CONTRACT</b>		
Workers	10	320

**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>					
Safety	0.00	0.00	0.00	0.00	
Housing	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	
Water supply	0.00	0.00	0.00	0.00	
<b>Sub total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Infrastructure</b>					
Communication	0.00	0.00	0.00	0.00	
Electricity	0.00	0.00	0.00	0.00	
Public transport	0.00	0.00	0.00	0.00	
Roads	0.00	0.00	0.00	0.00	
<b>Sub total</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>Environment management</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Training</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>Recreation</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

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

Previously the Mine was inspected under MCDR inspection on 12.07.2013 and violation was pointed out for rule 13 (1), 27(4) & 42. The same were complied on 03.12.2013.

Based on recent inspection carried out on 07.08.2014, the following violation has been pointout under rule 13(1),23E(2),42,45(5)(b)&63and issued to the 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.**

Suitable followup action will be initiated under rule 13(2), if compliance of rule 13(1) is not found satisfactory within stipulated period.

## 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	: 5 Borehole Proposed in the year 2014-2015	Nil	5 BH has been drilled during 2013-2014
b.Total area covered	: 4.86 Hectares	Nil	

**B. Working (Rule 13)**

a.Number and size of each pit (LxWxH)	: 230m * 90m * 3m	150m * 90m *3m	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular	Regular	
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1 : 0.2	1 : 0.2	
d.Total area covered under excavation/pits	: 2.62 Hecaters	1.50 Hecaters	

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

a.Location of dumps	: OB Dump is on Eastern Side of Lease area Waste Dump is on Northern East Boundary of Lease area Sub Grade Mineral Dump is on Western side of Lease area	OB Dump is on Eastern Side of Lease area Waste Dump is on Northern East Boundary of Lease area Sub Grade Mineral Dump is on Western side of Lease area	As per proposal all dumps are present
e.Yearly generation of waste quantity.	: 19873 Tons for 2013-2014	9967 Tons for 2013-2014	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	
c.Total area covered under waste dump.	: 0.23 + 0.06 Hectareas	0.30 Hectares	
d.No.and size of each waste dump with No of steps/lift/bench	: Single	Single	

**D. Production**

b.Year wise production of last five year.	: 2009-2010 = 97111 Tons 2010-2011 = 97304 Tons 2011-2012 = 99518 Tons 2012-2013 = 99624 Tons 2013-2014 = 99366 Tons	2009-2010 = 2500 Tons 2010-2011 = 3580 Tons 2011-2012 = 20080 Tons 2012-2013 = 20020 Tons 2013-2014 = 17330 Tons	
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**D. Reserve**

a. Reserve position as per latest MP/MS and at the time of inspection.	As per approved Mining Scheme 2013	As on Inspection 2014	Last year 2013-2014 Production 17330 has been depleted
	Proved (111) = 372530 Tons	Proved (111) = 355200 Tons	
	Probable (122) = 579772 Tons	Probable (122) = 579772 Tons	
	Possible (333) = 3606990 Tons	Possible (333) = 3606990 Tons	

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

<b>DOLOMITE</b>		
Category	Quantity in Tonnes	Grade
Proved	372530	Mgo=15 to 21%
Probable	579772	Mgo=15 to 21%
Possible	3606990	Mgo=15 to 21%
Total	4559292	

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

Mineral	Production	Unit
DOLOMITE	17330	TON

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

Efforts for improving low grade and sub grade mineral. : Manual Sizing & Sorting to bring high grade and blending with different grade.

Efforts for improving percentage of recovery of ore. : Lessee is planning to set up crushing & Screening Plant

**Mineral Rule 15**

Percentage of recovery of ore : 80%  
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : Single in Ore & Waste

**Sub/grd mineral/fines (Rule16)**

Qty of yearly generation and total qty available during inspection with grade : 650 Tons of Subgrade is available in mine site with grade of 15% Mgo

Number and size of each stack : 15m \* 30m \* 10m

Location of stacking. : Seperate Dump is present in the South Eastern side of Lease area

Separate stacking from waste : Seperate Dump is present in the South Eastern side of Lease area

Total area covered for stacking : 0.23 Hecatres during Plan period and this scheme period proposed to 0.30 Hectares

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

No. of Boreholes	No. of Pits	No. of Trenches
8	0	0

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

Overburden/waste removed (in m3) :	9967
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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. : Undulated Terrain with Rock Exposures
- b. Aesthetic environment : Degraded Mining Land
- c. Soil and land use pattern : Red Soil occurs in Patches
- d. Agriculture : Crops like sugarcane, jawar is dominant in adjacent area.
- e. Forest(flora and fauna) : There is no forest land nearby.
- f. Vegetation : Scanty vegetation exist in the area
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None

### B Water environment.

- a. Surface water : No any surface water body exist in the area
- b. Ground water : No seepage of ground water observed. Mining is carried out above the Ground water table
- 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, Mining and animal rearing.
- b. Recommending health and safety. : Hospitals/Clinics are existing at Bagalkot at 15km away from ML.
- c. Human settlement : 3 Village is found nearer to Lease boundary
- 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.

<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

<u>PLANTATION DURING THE PREVIOUS YEAR</u>		<u>2013 - 2014</u>	Area in Hect.
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Within lease area			Outside lease area		
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
.16	100	60			

**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.

Annual Returns for 2013-2014 has not been submitted by the Lessee. Based on Monthly Returns Scrutiny has been prepared

Reserves:-

Proved (111) = 355200 Tons

Probable (122) = 579772 Tons

Possible (333 ) = 3606990 Tons

Production = 17330 Tons

Cost of Production = Rs.200/-

Pit Mouth Value = Rs.350/-

Dispatch = 16598 Tons

Landuse Pattern:-

Area under Mining= 1.50 Hectares

Dump Yard =0.25 Hectares

Mineral Stock = 0.40 Hectares

Sub Grade Stock = 0.10 Hectares

Road = 0.12 Hectares

7.5m Safety Zone = 0.77 Hectares

Unused = 2.01 Hectares

**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 = 2607  
Lease area = 4.86 Hectares  
Name of Lessee = M/s.Sesha Sai Minerals  
Name of Mine = Shirur Dolomite Mine  
Location of Mine = Shirur Village, Bagalkot Taluk, Bagalkot District, Karnataka State  
Period of Lease = 20 Years  
Date of Grant = 01.07.2009  
Date of Expiry = 30.06.2029

**b. Compliance of the provisions of MCDR, 88 and advise given.**

Mining Scheme Approved Lr No:- MSH/OTF.MECH-52(KNT)/GOA/2013-2014 dated 05.03.2014  
For period = 2014-2015 to 2018-2019

To the Explore the Lease area fully to found the quality & quantity of the Dolomite

**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