

**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 : Shri.S.Sarwad, Mine Owner
Official with
Designation
- (iv) Date of Inspection : 18/02/2016
- (v) Prev.inspection date : 13/10/2014

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 : P.Abhichandra, Full Time
 Qualification :
 Appointment/ : 01/05/2015
 Termination date

Geologist

Name : MR.Suresh Katti, Part Time
 Qualification : M.sc Geology
 Appointment/ : 01/12/2014 30/04/2015
 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
DIRECT		
Managerial	2	310
Supervisory	1	310
CONTRACT		
Workers	5	310

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					
Health	0.00	0.00	0.00	0.00	
Safety	0.00	0.20	0.00	0.10	
Medical facility	0.00	0.00	0.00	0.00	
Water supply	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	
Sub total	0.00	0.20	0.00	0.10	
Infrastructure					
Communication	0.00	0.00	0.00	0.00	
Roads	0.00	0.00	0.00	0.20	
Electricity	0.00	0.00	0.00	0.00	
Public transport	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.20	0.20	
Employment	0.00	0.00	0.00	0.00	
Environment management	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	
Sports activities	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.00	0.25	
Total	0.00	0.00	0.20	0.55	

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 13.10.2014 and Violation issued under Rule 13(1), 23E(2), 27(4), 42(1)(b)(ii), 45(5)(b) and has been rectified on 10.06.2015.

Recently mine was Inspected under MCDR Inspection on 17.02.2016 under the Field Guidances of RCOM, Goa. Based on that Violation has been point out under Rule 12(3), 13(1), 23(E)(2), 27(4), 45(5)(b) & 63 Issued to the Lessee.

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, 1988, if recommended.

Suitable follow up 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 : No Proposal
and exploration i.e.
pitting, drilling
- 2 BH has been drilled
during 2013-2014
- b.Total area covered : Nil
- Nil

B. Working (Rule 13)

- a.Number and size of : 200m x 60m x 14m
each pit (LxWxH)
- 130m x 70m x 8m
- b.Bench : Regular
size(LxWxH)length can
be defined as
regular/irregular
- Irregular
- c.Ore to waste ratio : 1 : 0.11
pit wise if possible
otherwise for mine
- 1.0.05
- d.Total area covered : 3.015 Hect
under excavation/pits
- 2.50 Hect

C. Waste disposal (Rule 13)

- a.Location of dumps : It was proposed to
dump waste
materials at SW of
Mining Lease as
shown in Plate-6 &
partly used for
approach road
- Used for approach road
- e.Yearly generation : 8888 Tons
of waste quantity.
- 850 Tons
- b.Method of dumping : Advancing
whether
advancing/retreat
- Nil
- c.Total area covered : 140m * 12m/ Year
under waste dump.
- about 0.25 hect
- d.No.and size of each : Single
waste dump with No of
steps/lift/bench
- Single

D. Production

- b.Year wise : 2014-2015 = 30000
production of last
five year.
- 2014-2015 = 2000 Tons
2013-2014 = 8800 Tons
2012-2013 = 1900 Tons
2011-2012 = 324 Tons
2010-2011 = Nil
- 2013-2014 = 30000
Tons
2012-2013 = 30000
Tons
2011-2012 = 30000
Tons
2010-2011 = 30000
Tons

D. Reserve

a. Reserve position as :	As on 01.04.2015	As on 01.04.2015
per latest MP/MS and	Reserves = 220039	Reserves = 327015 Tons
at the time of	Tons	Resources = 705399 Tons
inspection.	Resources = 705399	
	Tons	

RESERVE POSITION AS ON 01/04/2015

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

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

Efforts for improving low grade and sub grade mineral. : Low grade Mineral is blending with High grade Materails as per buyers requirements

Efforts for improving percentage of recovery of ore. : Manual Size sorting are used for improving percentage.

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 Ore
One bench in Waste

Sub/grade mineral/fines (Rule16)

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/ 2015

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

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**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. Northern side there is Check dam.
- b. Aesthetic environment : Degraded mining land
- c. Soil and land use pattern : Thin soil is present at some places
- 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 : There is no Surface water courses observed in existing ML area
- b. Ground water : Seepage of Ground water observed. However nearby Check dam water seepage is little bit
- 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 : Climate is Warm & Dry through out the year and average rainfall is 350-400mm/ annum

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. : Shelter room, first aid station is available in mine area. 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

Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>			<u>2014 - 2015</u>		Area in Hect.
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TOP SOIL MANAGEMENT					
Quantity as on 31/03/2015					

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

Annual returns for the year 2014-2015 is not submitted to this office. Manual Annual returns has been scrutinized for year 2014-2015 during inspection of mine and deficiencies were explained to mines manager for correction.

Land use pattern: It is not filled up correctly.

Manpower and technical staff: Technical staff not included.

Reserves: Balance reserves as on 01.04.2015 are not given.

Quantity of OB/waste generation: Limestone of 35-40% CaO is treated as reject, which is above threshold value.

Sale & dispatch figures: It is filled up correctly.

Cost of operation: Royalty paid is not included.

Pit mouth value: It is filled up correctly

Ex Mine Price: It is not filled

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:- 2308
Lease area:- 4.86 Ha
Lease Period:- 50 Years Dt of grant:- 02.06.2001 Dt of Expiry :- 01.06.2051
Name of Lessee:- Shri. Sudhakar S. Sarwad
Name of Mine:- Varchagal Limestone Mine
Location:- Varchagal Village, Mudhol Taluka, Bagalkot District, karnataka

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

Advise has been given to submit the returns in time properly.

c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.

The Precautionary measures are being take care by the Lessee on the above aspects in the form of providing safety helmets, afforestations, sprinkling of water on mine roads, etc.

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

Total 2 boreholes have been drilled for a total meterage of 40m during 2013-2014. With this along with existing pits, about 2.5 ha area can be considered as explored for depth of 4-12m.

e. Whether production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.

The mine works with an average production of 3256 tons per annum during last Five years with minimum of Nil tons during 2010-2011 and maximum of 8800 tons during 2013-2014. As per mining scheme approved on 12.02.2012 the available reserves as on 01.04.2015 are in the order of 327015 tons. As such production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.

f. Whether adequate investment has been made by the lessee on the development of mine on mining machinery, operational and administrative building, residential accommodation for the employees.

The lessee has invested about Rs 150 Lakh which include Land, Buildings, Crusher, Machinery.

g. Measures taken by the lessee for protection of environment and ecology.

Lessee undertakes afforestation and sprinkling of water on mine roads as per the proposals. Apart from this, safety helmets have been provided to the workers and expenditure on community development has also been done.

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

The mineralisation still persists for further depths and there is no possibility of exhaustion of mineral ore in near future.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

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

Approved Mining Scheme is Valid upto March 2016 only.

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