

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

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/NK/SS-18/GOA

Mine code : 54KAR15019

- (i) Name of the Inspecting : **P015**) **B A PATIL**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SHRI. VINAYAK R KAWARI OWNER
Official with
Designation
- (iv) Date of Inspection : 09/04/2014
- (v) Prev.inspection date : 09/06/2006

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHAVIKODULA**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : KARNATAKA
District : NORTH KANARA
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (e) Police Station : GOKARNA
- (f) First opening date :
2. Address for : BHAVIKODULA SILICA SAND MINE OF
correspondance M/s DHARMADEVI MINERALS, AT & PO-BHAVIKODULA
TQ-KUMTA, DIST-NORTH KANARA, KARNATAKA
3. (a) Lease Number : KAR1465
(b) Lease area : 1.36
(c) Period of lease : 20
(d) Date of Expiry : 20/10/2022
4. Mineral worked : SILICA SAND Main

5. Name and Address of the

Lessee : SUBBA M. GOUDA
 DHARMADEVI MINERALS
 BAVIKONDLA, TQKUMTA DIST:
 UTTAR KANNADA NORTH KANARA
 KARNATAKA
 Phone:
 FAX :

Owner : M/s. Dharmadevi Minerals, Shri Vinayak R Kawari
 C/o Shri Vinayak R. Kawari
 1330/19 village Kumta-2,
 Municipality
 Majarees, Uparakeri, Kumta
 NORTH KANARA KARNATAKA
 Phone: 09448145991
 FAX :

6. Date of approval of Mining : 16/07/2013
 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		
Supervisory	0	
Managerial	0	

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	
Medical facility	0.00	0.00	0.00	0.00	
Safety	0.00	0.00	0.00	0.00	
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	
Sub total	0.00	0.00	0.00	0.00	
Infrastructure					
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	
Electricity	0.00	0.00	0.00	0.00	
Sub total	0.00	0.00	0.00	0.00	
Sports activities	0.00	0.00	0.00	0.00	
Recreation	0.00	0.00	0.00	0.00	
Environment management	0.00	0.00	0.00	0.00	
Others	0.00	0.00	0.00	0.00	
Training	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	

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

Earlier mine was inspected on 02.05.2007. No violations were observed. Mine is not working since 31.07.2011. Notice in this regard in form -D has not been submitted. Lessee agreed to submit the same violation letter has not been issued.

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.

Not recommended at this stage.

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 : No additional exploration proposal has been made in the existing SOM. No worth mentioned exploration is required. Sand dunes are exposed on the surface from which can be excavated and loaded in the trucks.

b.Total area covered : Nil Whole the area can be considered as explored.

B. Working (Rule 13)

a.Number and size of each pit (LxWxH) : It was proposed to excavate the material from dune area up to the surface level or to up to water table level and excavated area is used for horticulture. Mine did not work during 2012-13. However earlier mined out area is being used for horticultural purpose. As such there is no pits.

b.Bench size(LxWxH)length can be defined as regular/irregular : Nil NA in view of the information in above column.

c.Ore to waste ratio pit wise if possible otherwise for mine : 1:0 No OB is involved.

d.Total area covered under excavation/pits : Yearly 1500 sqm area is proposed for excavation. Mine did not work during 2012-13 and onwards. However about 4000 sqm area has been worked earlier and is being used for horticultural crops.

C. Waste disposal (Rule 13)

a.Location of dumps : Not proposed. No OB is involved.

e.Yearly generation of waste quantity. : Nil na

b.Method of dumping whether advancing/retreat : NA NA

c.Total area covered under waste dump. : Nil Nil

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

D. Production

b. Year wise	: 2008-09 to 2011-12	2008-09 -3100 t	Mine is not
production of last	- 9994 tonnes per	2009-10 -3550 t	working since
five year.	annum.	2010-11 -9860 t	31.07.2011.
	2012-13 - 15000	2011-12 -3500 t	
	tonnes.	2012-13 -Nil	

D. Reserve

a. Reserve position as	: As per scheme of	Mine has not worked
per latest MP/MS and	mining approved on	since then. Hence same
at the time of	16.07.2013	reserves are as on
inspection.	reserves of	inspection date. Apart
	83,300 tonnes have	from these reserves
	been estimated	about 38040 tonnes are
	under (111)	categorised as Remaining
	category of UNFC.	Resources.

RESERVE POSITION AS ON 01/04/2014

SILICA SAND		
Category	Quantity in Tonnes	Grade
Proved	83300	SiO ₂ -96.15%, Fe ₂ O ₃ - 100%
Probable	0	
Possible	0	
Total	83300	SiO ₂ - 96.15%, Fe ₂ O ₃ - 1.00%

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
SILICA SAND	0	TON

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

Efforts for improving low grade and sub grade mineral. : The silica sand contains high clay content generally 3%. Hence manual washing is undertaken. For the purpose three tanks are made . One tank is fitted with 50-60 mesh screen and remaining two tanks with 70-80 mesh screen. The sand is first screened as per requirement in washed in tanks with the help of pressure pumps. The washed sand contains about 1.5% clay.

Efforts for improving percentage of recovery of ore. : As above.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : Silica sand is mined with 100% recovery.

Number of benches in ore and waste. : One bench of 5m in sand dune is proposed which is up to surrounding level. The mined out area is used for horticultural purpose.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : No generation of subgrade material.

Number and size of each stack : No stacks of subgrade material.

Location of stacking. : No generation of subgrade material as such no stacks.

Separate stacking from waste : No subgrade is generated since whole of sand is despatched after washing.

Total area covered for stacking : Nil

Exploration data as on 31/03/ 2014

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

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overburden/waste removed (in m3) :	0
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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. : Only sand dunes are seen in and around the area. The lease area is away from CRZ line.
- b. Aesthetic environment : Land is degraded by Mining.
- c. Soil and land use pattern : No top soil in the lease area.
- d. Agriculture : Paddy and coconut are major crops. Cashewnut plantation is also seen.
- e. Forest(flora and fauna) : There is no forest. No wild animals. Domestic animals viz cattles, buffalows are seen.
- f. Vegetation : Acacia and cashew plantation are seen in sand dune area. Horticultural crops are grown in mined out area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : There are no Public building, places and monuments (protected, historical), placec of worship and places of tourist in the area.

B Water environment.

- a. Surface water : No Surface water body in the area. Rain water is accumulated in mined out area and gets drained due to seepage in a period of time.
- b. Ground water : Ground water level is about 2 to 2.5 m bellow surface bellow which mining is not undertaken. Hence it is not affected.
- c. Quality of water : Potable.

C. Air environment

- a. Noise : Manual Mining.Hence impact is negligible.
- b. Air : Manual Mining.Hence impact is negligible.
- c. Climatic condition : The area experiences hot and humid summers,due to its proximity to the sea. and temp will be 28 to 35 c and in winnter temp will be 19-25 c.The average rain fall of the area is 2800-3500mm/annum.

D. Socio economic environment

- a. Social and demographic profile. : Trading, Agriculture and Fishing are the main occupation of the people of the surrounding area.
- b. Recommending health and safety. : Nil
- c. Human settlement : Being coastal area sizeable population is located surrounding the lease area.
- d. Recreational facility. : Available at Kumata located at about 25 km.

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>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<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.
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<u>TOP SOIL MANAGEMENT</u>
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 Return for the year 2012-13 was scrutinised. Mine has remained closed since . As such nil production has been shown. A quantity of 517 tonnes has been shown as closing stock.

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.

Not applicable.

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

Not applicable.

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

Not applicable.

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.

Not applicable.

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

Not applicable.

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.

Not applicable.

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

Not applicable.

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.

Not applicable.

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 :

Indian Bureau of Mines