

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/NLR/VERM-18

Mine code : 62APR15018

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri B.Koteswara Rao, Lessee
Official with
Designation
- (iv) Date of Inspection : 13/04/2013
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KANDALI VERMICULITE MINE-**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : ANDHRA PRADESH
- District : NELLORE
- Village : Kandali
- Taluka : Gudur Mandal
- Post office : Tippavarappadu
- Pin Code : 101
- FAX No. :
- E-mail :
- Phone :
- (e) Police Station : GUDUR
- (f) First opening date : 04/11/2009
2. Address for : B.KOTESWARA RAO
correspondance : 558/54-4A, SWARNABARATHI NAGAR
NEAR BALAJI JUNIOR COLLEGE, GUDUR-534101
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : FELSPAR Associated
VERMICULITE Main

5. Name and Address of the

Lessee : B.KOTESWARA RAO
 558/54-4A, SWARNABARATHI
 NAGAR NEAR BALAJI JUNIOR
 COLLEGE GUDUR NELLORE
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : B.KOTESWARA RAO
 NO.558/54-4A,
 SWARNABHARATHI NAGAR NEAR
 BALAJI JUNIOR COLLEGE GUDUR
 NELLORE ANDHRA PRADESH
 Phone:
 FAX :

6. Date of approval of Mining :
 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	1	303
CONTRACT		
Workers	11	303

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					
Sanitation				0.00	
Water supply					
Health				0.00	
Medical facility				0.00	
Housing					
Sub total				0.00	
Infrastructure					
Public transport				0.00	
Communication				0.00	
Sub total				0.00	
Others				0.00	
Environment management				0.00	
Employment				0.00	
Total				0.00	

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

This is the first inspection of the mine and during the present inspection violation of rule 13(10) of MCDR, 1988 was found violated and the same was forwarded 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, 1988, if recommended.

As the violation cum show cause is not yet matured for taking further action suspension of mining operations not recommended at present.

5. Scientific Mining

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

- a.Type of prospecting : One trench on
and exploration i.e. Southern side of
pitting, drilling lease of
10x2.5x5m was
proposed during
the year.
- b.Total area covered : 0.20 ha Nil

B. Working (Rule 13)

- a.Number and size of : Two pits of sizes
each pit (LxWxH) 1.68x55x6m
2. 128x42x6m were
proposed.
- b.Bench : regular regular
size(LxWxH)length can
be defined as
regular/irregular
- c.Ore to waste ratio : -- 1:2
pit wise if possible
otherwise for mine
- d.Total area covered : 1.90 ha 1.20 ha
under excavation/pits

C. Waste disposal (Rule 13)

- a.Location of dumps : One dump on North
Western side of One dump on North
the lease was western side of the
proposed. lease of 2x2x2m size was
observed.
- e.Yearly generation : 1600 cu.m 110 cu.m
of waste quantity.
- b.Method of dumping : Advancing Advancing
whether
advancing/retreat
- c.Total area covered : 0.50 ha 0.20 ha
under waste dump.
- d.No.and size of each : -- ---
waste dump with No of
steps/lift/bench

D. Production

- b.Year wise : The proposed
production of vermiculite and
production of last feldspar for the
five year plan
period is
Vermiculite-1830
tonnes per year
and feldspar is
415 tonnes per
year.
- The actual acheivement
for vermiculite is
2011-12 - 355 tonnes
2012-13 - 45 tonnes
The acheivement for
feldspar is Nil.

D. Reserve

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

The reserves of
vermiculite are 15037
tonnes
feldspar are 3147
tonnes

RESERVE POSITION AS ON 01/04/2013

VERMICULITE		
Category	Quantity in Tonnes	Grade
Proved	15037	
Probable		
Possible		
Total	15037	

FELSPAR		
Category	Quantity in Tonnes	Grade
Proved	3417	
Probable		
Possible		
Total	3417	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
VERMICULITE	45	TON
FELSPAR	0	TON

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

Efforts for improving low grade and sub grade mineral. : There is no generation of low grade or subgrade mineral

Efforts for improving percentage of recovery of ore. : The ore extracted is removed and dried at site and then the entire ROM is sent to local consumers.

Mineral Rule 15

Percentage of recovery of ore : 55%
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : One bench in OB
One bench in ore.

Sub/grade mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : Not applicable.

Number and size of each stack : Not applicable

Location of stacking. : Not applicable.

Separate stacking from waste : There is no generation of subgrade material from the mine.

Total area covered for stacking : Not applicable.

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	5	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m ³) :	110
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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. : It is a plain land.
- b. Aesthetic environment : No aesthetic environment was observed.
- c. Soil and land use pattern : No topsoil is being generated.
- d. Agriculture : No agricultural practises were observed in the lease.
- e. Forest(flora and fauna) : The lease falls under non forest area.
- f. Vegetation : Except for the plantation made by lessee n other egetation was observed.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No Public building, places and monuments (protected, historical), placec of worship and places of tourist interest are there in the vicinity of the mining lease.

B Water environment.

- a. Surface water : No pereneial water channels were noticed in the mining lease.
- b. Ground water : The ground water level is at a depth of 40m.
- c. Quality of water : Not applicable.

C. Air environment

- a. Noise : As the mining operations are being carried out on a small scal without drilling and blasting not much air or noise pollution is envisaged.
- b. Air : As the mining operations are being carried out on a small scal without drilling and blasting not much air or noise pollution is envisaged.
- c. Climatic condition : The Mining lease falls under tropical climatic zone.The peak summer temperasture goes up to 45 degrees celcius.

D. Socio economic environment

- a. Social and demographic profile. : The main occupation of the local villagers is agriculture.
- b. Recommending health and safety. : None
- c. Human settlement : There are two villages in the vicinity of mining lease they are Kandali with a population 1000 and syadapuram with a population of 10,000.
- d. Recreational facility. : None.

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>2012 - 2013</u>			Area in Hect.
Within lease area			Outside lease area			
<u>Area</u>	<u>Trees planted</u>	<u>Survival rate</u>	<u>Area</u>	<u>Trees planted</u>	<u>Survival rate</u>	
.2	20	60	0	0	0	

<u>TOP SOIL MANAGEMENT</u>
Quantity as on 31/03/2013

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

The Annual return for the year 2011-12 was submitted by the lessee. The production reported during the year 2011-12 is 355 tonnes. The closing stock is 31 tonnes. The ex mine price reported is Rs.200/-. The UNFC reserves(111) are vermiculite is 15037 tonnes and feldspar is 3417 tonnes.

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.)

A letter forwarded to State Govt. for erecting permanant lease boundaries around the lease.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

Nil

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines