

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/NLR/VERM-17

Mine code : 62APR15017

- (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 : 07/11/2009
2. Address for : B.KOTESWARA RAO
correspondance 558/54-4A, SWARNABARATHI NAGAR
NEAR BALAJI JUNIOR COLLEGE, GUDUR-524161
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : 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 :

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	9	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					
Housing			0.00		
Water supply			0.00		
Sanitation			0.00		
Safety			0.00		
Medical facility			0.00		
Sub total			0.00		
Infrastructure					
Public transport			0.00		
Communication			0.00		
Sub total			0.00		
Environment management			0.00		
Others			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 mine. During the inspection violation of rule 45(5)(a)(viii) was noticed and the same was pointed 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.

None at present

5. Scientific Mining

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

a.Type of prospecting : Four trial pits
and exploration i.e. were proposed
pitting, drilling Four trial pits were
carried out.

b.Total area covered : 0.50 ha 0.50 ha

B. Working (Rule 13)

a.Number and size of : 4x4x2m 4x4x3m
each pit (LxWxH) 3x4x2m 3x3x2m
4x4x2m 4x3x3m
4x4x2m 5x4x3m

b.Bench : Regular Regular
size(LxWxH)length can
be defined as
regular/irregular

c.Ore to waste ratio : 1:3 1:3
pit wise if possible
otherwise for mine

d.Total area covered : 0.80 ha 1 ha
under excavation/pits

C. Waste disposal (Rule 13)

a.Location of dumps : One dump on the SW One dump on the SW side
side of the lease. of the lease was
observed.

e.Yearly generation : 90 cu.m 120 cu.m
of waste quantity.

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

c.Total area covered : 0.20 ha 0.20 ha
under waste dump.

d.No.and size of each : - One dump of 1m height.
waste dump with No of
steps/lift/bench

D. Production

b.Year wise : The proposed The actual acheivement
production of last production per
five year. year is
2009-10=1171 2009-10=180 tonnes
tonnes 2010-11=140 tonnes
2010-11=2100 2011-12=260 tonnes
tonnes 2012-13=29 tonnes.
2011-12=2100
tonnes
2012-13=2100
tonnes

D. Reserve

a.Reserve position as : - 22,900 tonnes
per latest MP/MS and
at the time of

inspection.

RESERVE POSITION AS ON 01/04/2013

VERMICULITE		
Category	Quantity in Tonnes	Grade
Proved	22900	
Probable		
Possible		
Total	22900	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
VERMICULITE	260	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 mineral.

Efforts for improving percentage of recovery of ore. : The ROM generated is dried and then supplied to local markets

Mineral Rule 15

Percentage of recovery of ore : 40%
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : One bench in ore and there are no benches in OB.

Sub/grd mineral/fines (Rule16)

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 : No subgrade mineral is being generated and as such there is no stacking of the mineral.

Total area covered for stacking : Not applicable

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	7	1

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	120
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Utilisation of Sub Grade Mineral and Mineral Rejects

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)

7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : It is a plain land with a releif of 4m.
- 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.
- e. Forest(flora and fauna) : It is a nonforest area.
- f. Vegetation : Not much vegetation 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 are observed near the lease.

B Water environment.

- a. Surface water : No surface water channels are observed.Except for two pits which are water logged due to rains during the orevious week of inspection.
- b. Ground water : The ground water table is at a depth of 60m.The mining operations are well above the ground water table.
- c. Quality of water : Not applicable

C. Air environment

- a. Noise : Due to the small scale level of mining operations carrying out without drilling and blasting, not much air or noise polution is envisaged.
- b. Air : Due to the small scale level of mining operations carrying out without drilling and blasting, not much air or noise polution is envisaged.
- c. Climatic condition : The area falls under tropical climate.

D. Socio economic environment

- a. Social and demographic profile. : The main occupation of local people is agriculture.
- b. Recommending health and safety. : None
- c. Human settlement : There are two villages within the vicinity of 5km of the lease.
They are 1. chimidthi-500
2. Kandali-1000
- 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>	
	Value

Season	Station name	Type of area	Parameter	Actual	Excess
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<u>PLANTATION DURING THE PREVIOUS YEAR</u>			<u>2012 - 2013</u>			Area in Hect.
Within lease area			Outside lease area			
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
.1	10	70				

TOP SOIL MANAGEMENT
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 lessee has submitted annual return for the year 2011-12 and the production reported is 260 tonnes with closing stock reported as 46 tonnes. The ex mine price is given as Rs.200/- per tonne. The reserves as per UNFC(111) are 22,900 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.)

Letter to State Govt for erecting permanant lease boundary pillars has been forwarded.

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

Nil

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines