

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/17/BNG

Mine code : 38KAR10003

- (i) Name of the Inspecting : **256**) PUKHRAJ NENIVAL
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Rajesh Garg, VP (Mines)
Official with
Designation
- (iv) Date of Inspection : 23/09/2013
- (v) Prev.inspection date : 10/02/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **INJEPALLI (ML 2417 AND 2475)**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : GULBARGA
- Village : INJEPALLI
- Taluka : SEDAM
- Post office : SEDAM
- Pin Code : 585222
- FAX No. : 08441-276139
- E-mail : mines@vasavadattacement.coi
- Phone : 08441-276005,EXT.406/524
- (e) Police Station : Sedam
- (f) First opening date : 09/12/1982
2. Address for : SRI. K.C.JAIN
correspondance M/S VASAVADATTA CEMENTS, SEDAM
GULBARGA DIST KARNATAKA - 585 222.
3. (a) Lease Number : KAR0099
- (b) Lease area : 897.86
- (c) Period of lease : 20
- (d) Date of Expiry : 04/09/2023
4. Mineral worked : SHALE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : VASAVADATTA CEMENTS
 SEDAM, GULBARGA, GULBARGA
 KARNATAKA
 Phone:08441-676005,676277,676256
 FAX :08441-676139,676408

Owner : K.C.JAIN
 CRYSTAL TOWER, 10-3-316/2,
 2nd/3rd FLOOR,Above Andhara
 Bank Masab Tank Hyderabad
 HYDERABAD ANDHRA PRADESH
 Phone:
 FAX :

Agent : Rajesh Garg
 GULBARGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : Rajesh garg,Full Time
 Qualification : BE Mining
 Appointment/ : 16/12/2009
 Termination date

Geologist

Name : B.S.VINAYAKA,Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 15/04/2013
 Termination date

Manager

Name : RAVINDRA LAGVANKAR
 Qualification :
 Appointment/ : 09/02/2006
 Termination date

6. Date of approval of Mining : 04/01/2013
 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		
Managerial	4	303
Supervisory	31	303
CONTRACT		
Workers	41	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					
Health	6.00	6.00	6.00	2.50	
Sanitation	0.00	0.00	0.00	0.33	
Housing	25.00	25.00	2.00		
Sub total	31.00	31.00	8.00	2.83	
Infrastructure					
Public transport	17.40	10.00	14.50	0.07	
Sub total	17.40	10.00	31.00	0.07	
Others	8.03	64.32	3.38	10.00	
Environment management	7.89	7.89	7.89	7.89	
Recreation	0.25	0.60	0.75	0.20	
Training	0.65	0.70	0.65	0.51	
Employment	5.89	5.89	5.89	0.51	
Total	71.11	97.40	64.06	22.01	

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

During the last MCDR inspection no violations were observed & pointed out. During the present course of inspection, the provisions of Rule 13 (1) & 48 of MCDR 1988 were observed & pointed out on 04/10/2013.

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.

No such recommendation have been made under 56 of MCDR 1988.
Not applicable.

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		19 Bore holes covering 800 mtrs of core drilling.	
b.Total area covered : -		-	

B. Working (Rule 13)

a.Number and size of : - each pit (LxWxH)		Pit-A: 1463 x 616 x 50 Pit-B: 1105 x 280 x 50	
b.Bench : Regular size(LxWxH)length can be defined as regular/irregular		Regular	
c.Ore to waste ratio : 1 : 0.04 pit wise if possible otherwise for mine		1 : 0.03	
d.Total area covered : 9.25Million tons under excavation/pits from both A & B pit.		4.36 Million tons in 16.33Ha from both A & B pit.	Production is as per plant requirement.

C. Waste disposal (Rule 13)

a.Location of dumps : E1200 to E1500 E300 to E 600		1. a) N890, W 560 b) N1200 W 220	
e.Yearly generation : 352891 of waste quantity.		85916	
b.Method of dumping : Advancing whether advancing/retreat		Advancing	
c.Total area covered : - under waste dump.		12.44 ha	
d.No.and size of each : - waste dump with No of steps/lift/bench		4 nos	

D. Production

b.Year wise : 2008-09 9.48MT production of last five year.		2008-09 4.79MT 2009-10 6.5MT 2009-10 9.56MT 2010-11 5.6MT 2011-12 4.24MT 2011-12 11.99MT 2012-13 4.36MT 2012-13 9.25MT	Production as achieved 47.14% of proposals during 2012-13 similarly there is acievement of 51.2% of proposed production during last 5 years (cumulative). Accordingly violation has been pointed out .
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D. Reserve

a. Reserve position as per latest MP/MS and at the time of inspection.	: Reserve position as per MS	Reserve position as on 01/04/2013 .
	Proved geol.qty in Million tonnes	Proved geol.qty in Million tonnes 36.60
	40.96	Probable geol.qty in Million tonnes 259.36
	Probable geol.qty in Million tonnes	
	259.36	
	Possible geol.qty in Million tonnes	
	237.94	
	Total Geol Qty in Million tonnes	
	538.26	

RESERVE POSITION AS ON 01/04/2013

SHALE		
Category	Quantity in Tonnes	Grade
Proved	7330000	
Probable	3970000	
Possible	72880000	
Total	84180000	

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	36600000	Cao-35-50
Probable	259360000	Cao-35-50
Possible	237940000	Cao-35-50, Sio2-8-28
Total	533900000	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
SHALE	0	TON
LIMESTONE	4358231	TON

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

Efforts for improving low grade and sub grade mineral. : NA

Efforts for improving percentage of recovery of ore. : NA

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 100%

Number of benches in ore and waste. : Ore - 05 and OB - 01
(OB bench consists of black cotton soil height varying from 0.1 to 3.0 mtr which contains alumina. As bauxite is purchased in plant as additive in cement manufacturing , it was advised to utilise lower portion of OB bench with high grade limestone so that mineral conservation shall be ensured in addition to saving of cost in cement plant).

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : NA

Number and size of each stack : NA

Location of stacking. : NA

Separate stacking from waste : NA

Total area covered for stacking : NA

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
78	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	85916
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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. : The area is almost flat, underlate terrain with out crops of shales & limestone.
- b. Aesthetic environment : No forest cover. The ML area located admist season agricultural land. river kagina flows at about 8km from the ML. A broad guage railway line is located on the northern side away from the ML boundary.
- c. Soil and land use pattern : Black cotton soil (humors) is occuring as top soil capping with variable thickness of 1 to 3m.
- d. Agriculture : Seasonal agriculture of cultivation of jawar, ragi oned pop corn is observed around the ML area.
- e. Forest(flora and fauna) : No forest zone is involved.
- f. Vegetation : The ML area is flat underlated terrain and at places stray thorney bushes/ shrubs are existing.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No such places of monuments of historical importance, places of worship/tourist importance are existing in and around the ML.

B Water environment.

- a. Surface water : No surface water courses/ perrinial or seasonal nellahs.
- b. Ground water : The general ground water is collected in water sump in mine pit itself which is analysed to be within permissable limits.
- c. Quality of water : Water is potable and the same is being utilised for plant.

C. Air environment

- a. Noise : The survey being carried out once in 3 months. Noise level of core zone vary from 63 to 89 decibles. In the buffer zone. It is recorded as 47.9 to 60DB.
- b. Air : Regular water sprinkling is done on haul roads by water sprinklers as well as automatic sprinklers are installed at places . NIVIS - a truck mounted machine for suppressing air borne dust is used . Plantation is carried out towards colony area to arrest the dust generated during mining activities. The survey is carried out once in 3 months, all parameters of ambient air quality are well within permissible limits.
- c. Climatic condition : Tropical semi arid dry climate observed with scanty season rainfall.

D. Socio economic environment

- a. Social and demographic profile. : Rural status population exists in near by villages with main occupation of agricultural & animal rearing.
- b. Recommending health and safety. : Medical facilities through mobile van & medical camps being provided by the company.
- c. Human settlement : There is no human settlement in the ML area. The existing operation will thus not disturb any village or settlement. No adverse impact is anticipated.

d. Recreational facility. : Developed Children's Parks, Gardens for old aged & sports Club with all the indoor games facility like table tennis, carom room, Billiards Room, News paper room along with cinema theatre in addition to temple complex and community halls.

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			
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
.85	3115	80	1.8	4350	80	

<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 2012-13 has been scrutinised and the following observations were made.

Opening stock is - 1794075(Lst), 25668(Shale) tonnes.

Production - 4358231(Lst), 0(shale) tonnes.

PMV is Rs. 225 /metric tonne .

Despatches are - 4688631(lst), 0(shale) tonnes.

Cost of operation is - Rs 107.39/-.

Closing stock - 1463675(lst), 25668(shale) tonnes.

Fixed assets in Rs - 276919000/-

Reserve in million tonnes - Lst - 533.90, Shale - 84.18

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.

NIL

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

NIL

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

NIL

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.

NIL

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

NIL

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.

NIL

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

NIL

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.

NIL

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.)

It was observed that boundary pillars were erected as per the CCOM's circular 01/2009 furnishing the details of ML no , Boundary pillar No; longitude , latitude, etc. The lessee may be advised to erect the same within a period of 30 days.

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

NIL

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines