

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KRL/QLN/CC/1/BNG

Mine code : 32KRL09002

- (i) Name of the Inspecting : **J002**) **V.D.JALNAPURKAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 24/12/2013
- (v) Prev.inspection date : 13/01/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KUNDARA**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : KERALA
- District : KOLLAM
- Village : MULAVANA
- Taluka : KOLLAM
- Post office : KUADARA
- Pin Code : 691501
- FAX No. : 0474-522344
- E-mail :
- Phone : 0474-522252,522448,522226,!
- (e) Police Station :
- (f) First opening date : 01/01/1999
2. Address for : KUNDARA,
correspondance KOLLAM,
KERALA-691501.
3. (a) Lease Number : KRL0108
- (b) Lease area : 16.59
- (c) Period of lease : 10
- (d) Date of Expiry : 25/07/1999
4. Mineral worked : CHINA CLAY Main

5. Name and Address of the

Lessee : KERALA CERAMICS LTD
 KUNDARA, KOLLAM, KOLLAM
 KERALA
 Phone: 0474-522252, 522448, 522226, 522243
 FAX : 0474-522344

Owner : THE KERALA CERAMICS LTD
 KUNDARA, KOLLAM, KOLLAM
 KERALA
 Phone: 0474-522252, 522
 FAX : 0474-522344

Agent : DEVAKI NANDAN
 KOLLAM KERALA
 Phone:
 FAX :

Manager Name : G.MURALEEDHARAN.PILLAI Qualification : MECHANICAL ENGINEER Appointment/ : Termination date

6. Date of approval of Mining : 20/03/1990
 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		
Workers	2	
Ministrial	0	
Supervisory	1	
CONTRACT		
Plant	114	
Managerial	1	320

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	0.00	0.00	0.00	
Housing	0.00	0.00	0.00	0.00	
Water supply	0.00	0.00	0.10	0.30	
Sub total	0.00	0.00	0.10	0.30	
Infrastructure					
Sub total			0.00		
Training	0.00	0.00	0.00	0.00	
Employment	0.00	0.00	0.00	0.00	
Others	0.00	57.00	0.00	285.00	
Total	0.00	57.10	0.00	285.30	

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

During earlier inspection MCDR violation 12(3) and 13(1) were pointed out. The same have been complied, during present inspection. No MCDR violation is noticed.

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 applicable.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a.Type of prospecting and exploration i.e. pitting, drilling	: There is no proposal.	NIL	
b.Total area covered	: There is no proposal.	Nil	
B. Working (Rule 13)			
a.Number and size of each pit (LxWxH)	: There is no proposal.	320m x 160m x 20m	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular benches There is no proposal.	Regular benches 1. 320m x 1.5m x 1.5m (Overburden benches) 2. 320m x 5m x 5m (Mineral benches)	
c.Ore to waste ratio pit wise if possible otherwise for mine	: There is no proposal.	1:.7	
d.Total area covered under excavation/pits	: There is no proposal	5.12	
C. Waste disposal (Rule 13)			
a.Location of dumps	: There is no proposal	Not applicable	There are no dumps.
e.Yearly generation of waste quantity.	: Not applicable	598 MT (Tailing Sand)	
b.Method of dumping whether advancing/retreat	: There is no proposal.	Not applicable	
c.Total area covered under waste dump.	: There is no proposal.	NIL	
d.No.and size of each waste dump with No of steps/lift/bench	: There is no proposal.	Not applicable	
D. Production			
b.Year wise production of last five year.	: Not available	2008-09 73098 2009-10 6427.87 2010-11 22000 2011-12 1664 2012-13 1025	
D. Reserve			
a.Reserve position as per latest MP/MS and at the time of inspection.	: Not available	Not applicable	

RESERVE POSITION AS ON 01/04/2013

CHINA CLAY

Category	Quantity in Tonnes	Grade
Proved	0	0
Probable		
Possible		
Total	0	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
CHINA CLAY	0	TON

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

Efforts for improving low grade and sub grade mineral. : Not applicable

Efforts for improving percentage of recovery of ore. : Not applicable

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 100% recovery of Ore and 74% recovery with respect to ROM

Number of benches in ore and waste. : in OB 7 No. of benches in Mineral 3 No. of Benches

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 : Not applicable

Total area covered for stacking : Not applicable

Exploration data as on 31/03/ 2013

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

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013**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. : Affected to the extent of these mining activities .
- b. Aesthetic environment : Affected in a way by open pits, dumps and processing plants.
- c. Soil and land use pattern : Not affected except to the extent of these mining and its allied activities.
- d. Agriculture : Scattered agricultueal activities found in and around the ML.
- e. Forest(flora and fauna) : No flora and fauna except few birds, coconut and mangroove trees.
- f. Vegetation : No significant vegetation in the area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Not public building / place of national importance in the sorrouring areas of the ML

B Water environment.

- a. Surface water : Natural drainage water system is not affected
- b. Ground water : Ground water is not encountered within the ML so far.
- c. Quality of water : Potable water as can be seen from the nearby wells.

C. Air environment

- a. Noise : Not affected.
- b. Air : Not affected.
- c. Climatic condition : Coastal climate is not affected by this mining activity.

D. Socio economic environment

- a. Social and demographic profile. : Nearby villages are either directly or indirectly dependent on this mining and its allied activities.
- b. Recommending health and safety. : None
- c. Human settlement : Local puoulace is depending largely on this mining industry.
- d. Recreational facility. : None to be found nearby.

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.

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.

Annual Return for the year 2012-13 has been verified

Opening Stock : 486 MT

Production : 1025 MT

Closing Stock : 3 9 MT

Cost of Operation : Rs.325/-

Reserves : 1025 MT (111)

83336 MT (121 & 122)

83336 MT (211)

82311 mt (221 & 222)

Fixed Assets : For Plant and Machinery 2.23 Crores.

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.

NA

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

NA

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

NA

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.

NA

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

NA

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.

NA

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

NA

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.

NA

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 :

(V.D.JALNAPURKAR)

Indian Bureau of Mines