

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KRL/KOTT/LIMESHELL/1/BNG

Mine code : 37KRL05005

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Anil Kumar, B Manager
Official with
Designation
- (iv) Date of Inspection : 09/12/2015
- (v) Prev.inspection date : 17/09/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VEMBANAD LAKE(MUHAMMA)75H**
- (b) **Registration NO.** : **IBM/6544/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KERALA
- District : KOTTAYAM
- Village : MUHAMMA
- Taluka : KOTTAYAM
- Post office : KUMARAKOM
- Pin Code :
- FAX No. : 0481-2362354 (F),944620248
- E-mail : tclktm@sancharnet.in,info@
- Phone : 0481-2361371 (0),9847310209
- (f) **Police Station** : MUHAMMA
- (g) **First opening date** : 04/10/1985
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s THE TRAVANCORE CEMENTS LIMITED,
NATTAKAM, KOTTAYAM,
KERALA-686013.
3. (a) **Lease Number** : KRL0001
- (b) **Lease area** : 100
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 05/07/2004
4. **Mineral worked** : LIMESHELL Main

5. Name and Address of the

Lessee : TRAVANCORE CEMENTS LTD
 NATTAKAM, KOTTAYAM,
 KOTTAYAM KERALA
 Phone:0481-561371,561372
 FAX :0481-565354

Owner : TRAVANCORE CEMENTS LTD
 NATTAKAM, KOTTAYAM,
 KOTTAYAM KERALA
 Phone:
 FAX :

Agent : ABU JAMES
 KOTTAYAM KERALA
 Phone:
 FAX :

Manager

Name : ANIL KUMAR.B
 Qualification : B.E(ELECTRICALS)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	27/09/1990
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	26/03/1999

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposals	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	nil	
1e	Balance reserve as on 01/04/20	-	-	The reserves are 896372 tonnes as on 1.4.2015.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No approved proposals.The violation pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposals	nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals	nil	
2c	Stripping ratio or ore to OB ratio	No proposals	not specified	
2d	Quantity of topsoil generation in m3	No proposals	nil	

2e	Quantity of overburden generation in m3	No proposals	nil	The mining operations are under lake waters.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The mining operations are under lake waters by means of dredging with cutter suction dredges. There is not approved proposals. The violation has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No proposal	not specified.	It is under water workings for Limeshell.
3b	Quantity of ROM mineral production proposed	No proposal	3263 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	no proposal	100%	
3d	Quantity of mineral reject generation	Nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	nil	nil	

3h	Manual / Mechanised method adopted for segregating from ROM	no proposal	nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	
3j	Provision of drilling and blasting in mineral benches	NA	nil	
3k	Provision of mining machineries in mineral benches	NA	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	nil	
3m	Total area covered under excavation/pits	no proposal	nil	
3n	Ore to OB ratio for the pit/mine during the year.	nil	1:0	
3o	Total area put in use under different heads at the end of year	no proposal	nil	
3p	Production of ROM mineral during the last five year period as applicable	2010-11:30132t 2011-12:30132t 2012-13:nil 2013-14:nil 2014-15:nil 2015-16:nil	2010-11:13795t 2011-12:14795t 2012-13:12500t 2013-14: 8390t 2014-15:3263t 2015-16: nil(up to Dec.2015)	No proposals since 2012-13.

3q	General remarks - of inspecting officers on method of mining etc.	-	There were no approved proposal.The violation has been issued.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	nil	
4b	Location of topsoil, OB and mineral reject dumps	nil	nil	
4c	Number of dumps within lease area and outside of lease area	nil	nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	nil	nil	
4e	Number of active and alive dumps.	nil	nil	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	nil	nil	
4i	Length of Retaining wall or garland drain all along dumps	nil	nil	
4j	Number of settling ponds	nil	nil	

4k	Specific comments of inspecting officer on waste dump management	-	-	The complete operations are involved on lake floor bed.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	nil	nil	
5b	Area under backfilling of mined out area	nil	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	no proposals for backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	-	submitted	

6b	Area available for rehabilitation (ha) .	nil	nil
6c	afforestation done (ha).	nil	nil
6d	No. of saplings planted during the year	nil	nil
6e	Cumulative no .of plants	nil	nil
6f	Any other method of rehabilitation	nil	nil
6g	Cost incurred on watch and care during the year	nil	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	nil	nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	no specific comments.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	nil	nil	no production during the year 2015-16 upto December, 2015.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	nil	Nil	
7c	Different grade of mineral sorted out at mines.	nil	nil	The entire ROM material is used for captive White cement factory.
7d	Any beneficiation process at mines .	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No specific remarks on mineral conservation and beneficiation issues.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	nil	nil	
8b	Concurrent use or storage of topsoil	nil	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	nil	nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	nil	nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	nil	nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	nil	nil	
8g	Survival rate	nil	nil	
8h	Water sprinkling on roads to control airborne dust	nil	nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is impact of mining on aesthetic beauty in and around mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given.	not appointed the mining engineer.	The violation has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	-	-

9d	Scrutiny of Annual return on afforestation	Given	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	-	-
9h	Scrutiny of Annual return on fixed assets	Given	-	-
9k	Scrutiny of Annual return on mining machineries	Given	-	-

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	13/01/2016				
Rule 24	13/01/2016				
Rule 42(1)(C)(II)	13/01/2016				

Date :
(K.SRINIVAS)

Indian Bureau of Mines