

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KRL/KOTT/LIMESHELL/7/BNG

Mine code : 37KRL05006

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Vinoi, President of the Society
Official with
Designation
- (iv) Date of Inspection : 06/12/2017
- (v) Prev.inspection date : 11/12/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VEBANADU LAKE(94.5H)**
- (b) **Registration NO.** : **IBM/6531/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KERALA
District : KOTTAYAM
Village : VAIKOM
Taluka : VAIKOM
Post office : PALLIPPURATHUSSERY
Pin Code : 686606
FAX No. : --
E-mail : lscs3145@gmail.com
Phone : 04829-210465 (O), 9446375:
- (f) Police Station : Vaikom
- (g) First opening date : 04/01/1996
- (h) Weekly day of rest : SUN
2. Address for : M/s The Vaikom Lime Shell Co-Operative Society,
correspondance # 3145, PALLIPURATHUSSERY POST,
VAIKOM -686606 ,KOTTAYAM Distt., KERALA State.
3. (a) Lease Number : KRL0059
- (b) Lease area : 94.5
- (c) Period of lease : 5
- (d) Date of Expiry : 04/01/2001
4. Mineral worked : LIMESHELL Main

5. Name and Address of the

Lessee : VAIKOM LIMESHELL CO-OP SOCIETY
PALLIPURATHUSSERY [PO],
VAIKOM, KOTTAYAM, KOTTAYAM
KERALA
Phone:04829 210465
FAX :--

Owner : VAIKOM LIMESHEL COOP.SOCIETY LTD
#3145, PALLIPURATHUSSERY
VAIKOM KOTTAYAM KERALA
Phone: 04829 210465
FAX : ---

6. Date of approval of Mining : Fresh under rule 22 MCR1960 12/04/1990
Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 16/10/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	-
1b	Exploration over lease area for geological axis 1 or 2	Two trial pits	Two trial pits	The deposit is lake floor under water. The pits are not visualised since they are under water.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Lessee	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	Not specified	-
1e	Balance reserve as on 01/04/20	-	-	Reserves as on 1.4.2017 is 70,205 tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No specific remarks on exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Not specified	No specific area, but within the lease area.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposals	Nil	No top soil generated.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m3	No proposals	nil	-
2e	Quantity of overburden generation in m3	No proposals	Nil	No generation of overburden.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Collection of limeshell from the lake floor does not leave any pit to develop.
----	---	---	---	--

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	No specific proposals	Not specified.	The collection of limeshell is carried out anywhere in the lease area leaving no pits
3b	Quantity of ROM mineral production proposed	4340 tonnes	2963 tonnes for the year 2016-17	-
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposals	nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposals	nil	-
3f	Quantity of sub grade mineral generation.	No proposals	nil	No generation of sub grade mineral.
3g	Grade of sub grade mineral generation	No proposals	nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals	nil	-

3j	Provision of drilling and blasting in mineral benches	No proposals	nil	-
3k	Provision of mining machineries in mineral benches	No proposals	nil	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposals	nil	-
3m	Total area covered under excavation/pits	14.82ha	14.82ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	-
3o	Total area put in use under different heads at the end of year	14.82 HA	14.82HA	-
3p	Production of ROM mineral during the last five year period as applicable	2012-13: nil 2013-14: nil 2014-15:nil 2015-16: 4340t 2016-17: 4340t	2012-13: 3006t 2013-14: 4120t 2014-15:6520t 2015-16: 3537t 2016-17: 2963t	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining is being carried out as per the approved document.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals	nil	-
4b	Location of topsoil, OB and mineral reject dumps	No proposals	nil	-

4c	Number of dumps within lease area and outside of lease area	No proposals	nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposals	nil	-
4e	Number of active and alive dumps.	No proposals	nil	-
4f	Number of dead dumps.	No proposals	nil	-
4g	Number of dumps established.	No proposals	nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals	nil	-
4i	Length of Retaining wall or garland drain all along dumps	No proposals	nil	-
4j	Number of settling ponds	No proposals	nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The dump management is not applicable.

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.	No proposals	nil	-
5b	Area under backfilling of mined out area	No proposals	nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	nil	-

5d	Total area fully reclaimed and rehabilitated	No proposals	nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No proposals for backfilling and recalamation.

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) .	No proposals	nil	-
6c	afforestation done (ha).	No proposals	nil	-
6d	No. of saplings planted during the year	No proposals	nil	-
6e	Cumulative no .of plants	No proposals	nil	-
6f	Any other method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	nil	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposals	nil	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	There are no specific proposals for PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	No specific proposals	Sorting being outside the lease area.	The entire lease area is under water.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	-
7c	Different grade of mineral sorted out at mines.	-	-	-
7d	Any beneficiation process at mines	No proposals	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No specific remarks on mineral conservation.

Environment :

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

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposals	nil	-
8g	Survival rate	No proposals	nil	-
8h	Water sprinkling on roads to control airborne dust	No proposals	nil	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around the area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted upto November, 2017. Annual return submitted for the year 2016-17.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	-	-
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	Ex- mine price value is less than the cost of production due to lack of demand.	-
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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 27(2)	26/12/2017			
MCDR17	Rule 35(1)	26/12/2017			

Date :**(K.SRINIVAS)**

Indian Bureau of Mines