

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KRL/KOT/LIMESHELL/ 10 /BNG

Mine code : 37KRL05009

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri K.D. Babu, the Secretary
Official with
Designation
- (iv) Date of Inspection : 10/12/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KUMARAKOM**
- (b) **Registration NO.** : **IBM/6543/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KERALA
District : KOTTAYAM
Village : KUMARAKOM
Taluka : KOTTAYAM
Post office : KUMARAKOM
Pin Code : 686144
FAX No. :
E-mail : vtwlscoperativesociety@red:
Phone : 9745909499
- (f) Police Station : Ambika Market
- (g) First opening date : 09/05/1995
- (h) Weekly day of rest : SUN
2. Address for : M/s VTWL Cooperative Society Ltd.
correspondance : No. K-357, Ambika Market (P.O)
VIKOM - 686 144 (Kottayam Distt) Kerala State.
3. (a) Lease Number : KRL0030
- (b) Lease area : 500
- (c) Period of lease : 20
- (d) Date of Expiry : 08/05/2015
4. Mineral worked : LIMESHELL Main

5. Name and Address of the

Lessee : Vaikom Taluk White Limeshell Co-operativ
No.357, Ambika,
Market.P.O., Vaikom Vaikom,
Kottayam KOTTAYAM KERALA
Phone:
FAX :

Owner : Vaikom Taluk White Limeshell Co-operative Society
No.357, Ambika,
Market.P.O., Vaikom Vaikom,
Kottayam KOTTAYAM KERALA
Phone:
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

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	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	-	-	The reserve figure is not available, as the lessee is not having the approved document. The violation has been pointed out to the lessee.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The lessee is not having the approved document. The violation has been pointed out to the lessee.

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	1:0	
2d	Quantity of topsoil generation in m3	no proposals	nil	

2e	Quantity of overburden generation in m3	no proposals	nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The lessee is not having the approved proposals. The violation has been pointed out to the lessee.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	no proposals	nil	
3b	Quantity of ROM mineral production proposed	no proposals	1531 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	no proposals	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.	nil	nil	
3g	Grade of sub grade mineral generation	no proposals	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	no proposals	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	no proposals	Not available.		The mine workings are involved under lake waters.
3n	Ore to OB ratio for the pit/mine during the year.	no proposals	1:0		
3p	Production of ROM mineral during the last five year period as applicable	2010-11:nil 2011-12:nil 2012-13:nil 2013-14:nil 2014-15:nil 2015-16:nil	2010-11:NA 12:NA 13:3420t 14:1640t 15:1531t 16:485t	2011-2012- 2013- 2014- 2015-	The lessee is not having the approved document. The violation has been pointed out .
3q	General remarks of inspecting officers on method of mining etc.	-	-		The lessee is not having valid approved proposals. The mining operations are involved under lake wates, i.e., Vembanadu Lake.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	nil	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 activity of dumping of waste is not involved in the operations, since the limeshell is collected from the lake floor.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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 specific remarks .

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	nil	nil	
6f	Any other method of rehabilitation	No proposals	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	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	no	
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.	-	-	The lessee is not having the valid PMCP proposals.The violation has been pointed out.

Mineral Conservation:

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

7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals	nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposals	nil	
7c	Different grade of mineral sorted out at mines.	nil	nil	The entire shells are tranported.
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	The limeshell is collected from the lake bed and tranported to land by manual small boats.

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	NA	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 impact of mining on aesthetic beauty in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted.	-	-
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	-
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
Rule 13(1)	12/01/2016				
Rule 23F(1)	12/01/2016				

Date :**(K.SRINIVAS)**

Indian Bureau of Mines