

**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 : Smt. Aswathi, Secretary of the Society
Official with
Designation
- (iv) Date of Inspection : 07/12/2017
- (v) Prev.inspection date : 10/12/2015

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 : 9745909499,9349317816 (M),
- (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)
VIAKOM - 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	No proposals	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	-	-	Not available since no estimation of reserves has been done.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The lessee is not having the approved proposals of exploration. The violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposals	Not available	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals	Nil	Not applicable, since the deposit is under water.
2c	Stripping ratio or ore to OB ratio	Nil	Nil	-
2d	Quantity of topsoil generation in m3	Nil	Nil	-
2e	Quantity of overburden generation in m3	Nil	Nil	-

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The deposit is under water. However, the violation has been pointed out as it is not having the approved document.
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	No proposal	Nil	-
3b	Quantity of ROM mineral production proposed	No proposal	404 tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	No proposals	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.	No proposals	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	The collection of shells are being carried out from the lake bed under water.
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	No specific area	-
3n	Ore to OB ratio for the pit/mine during the year.	No proposals	1:0	-
3o	Total area put in use under different heads at the end of year	No proposals	Not specified.	-
3p	Production of ROM mineral during the last five year period as applicable	2012-13: nil 2013-14: nil 2014-15: nil 2015-16: nil 2016-17: nil	2012-13: 3420t 2013-14: 1640t 2014-15: 1531t 2015-16: 680t 2016-17: 404 t	The lessee is not having the valid approved document. The violation has been pointed out.
3q	General remarks of inspecting officers on method of mining etc.	-	-	The operations are being carried out manually which involves the collection of shells from the lake floor. However, there is no valid approved document. The violation has been pointed out.

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	-	-	Waste dump management is not involved in the operations.

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 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	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 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.	-	-	The lessee is not having the approved pmcp. The violation has been pointed out.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals	shell sorting is done out side the lease area.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposals	manually	-
7d	Any beneficiation process at mines	No proposals	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No approved proposals.

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	1:0	-
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 change in the aesthetic beauty in and around 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 Nov.2017. Annual Return submitted for the year 2016-17.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	-	Operations are under water by collectiong the shells from the lakefloor.

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)	Nil	No generation of rejects.	-
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
MCDR17	Rule 11(4)	28/12/2017			
MCDR17	Rule 27(2)	28/12/2017			
MCDR17	Rule 35(1)	28/12/2017			

Date :

(K.SRINIVAS)

Indian Bureau of Mines