

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KRL/ALP/L.S/11 /BNG

**Mine code :** 37KRL01006

- (i) Name of the Inspecting : **S011** ) **K.SRINIVAS**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Chandran, the representative  
Official with  
Designation
- (iv) Date of Inspection : 10/12/2015
- (v) Prev.inspection date : 05/10/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THANNEERMUKKAM 500 H**
- (b) **Registration NO.** : **IBM/5480/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : KERALA  
District : ALAPUZHA (ALLEPPY)  
Village : THANNERMUKKAM SOUTH  
Taluka : CHERTHALA  
Post office : MUHAMMA  
Pin Code : 688525  
FAX No. : NIL  
E-mail : karappuramwhiteshella144@gr  
Phone : 0478-2862434
- (f) Police Station : MUHAMMA
- (g) First opening date : 22/07/1997
- (h) Weekly day of rest : SUN
2. Address for : No.A-144, MUHAMMA( P.O)  
correspondance : CHERTHALA  
ALAPPUZHA- 688525
3. (a) Lease Number : KRL0150
- (b) Lease area : 500
- (c) Period of lease : 20
- (d) Date of Expiry : 13/10/2018
4. Mineral worked : LIMESHELL Main

5. Name and Address of the

Lessee : Karappuram White Limeshell Vyavasaya Co.  
Karappuram White Limeshell  
Vyavasay Co-op.Society  
Ltd., No. A144, Muhamma,  
CHERTHALA ALAPUZHA  
(ALLEPPY) KERALA  
Phone:  
FAX :

Owner : KARAPPURAM WHITE LIME SHELL VYVASAYA CO.OP.SOCIETY  
MUHAMMA P O CHERTHALA  
ALAPPUZHA ALAPUZHA  
(ALLEPPY) KERALA  
Phone:  
FAX : 0478-2862434

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	-	-	1527474 tonnes as on 1.4.2015
1f	General remarks of inspecting officers on geology, exploration etc	nil	nil	No valid document is available. The violation has been pointed out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	no proposal	nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	nil	
2c	Stripping ratio or ore to OB ratio	nil	1:0	
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	nil	nil	The mining operations are under lake waters.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	nil	nil	
3b	Quantity of ROM mineral production proposed	nil	1571 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	nil	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	nil	manual	
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	

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3k	Provision of mining machineries in mineral benches	nil	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
3m	Total area covered under excavation/pits	nil	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	nil	nil	
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	2010-11:24992t 2011-12:2126t 2012-13:1692 2013-14:1551 2014-15:1571 2015-16:119t(upto Oct.2015)	2014-
3q	General remarks of inspecting officers on method of mining etc.	-	-	No valid production proposals.The violation has been pointed out to the lessee.The mining operations are in lake floor.

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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)	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	-	-	No waste dumping is involved as the mining operations are under water.

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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	

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

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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).	nil	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 remarks.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	nil	nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	nil	manual	
7c	Different grade of mineral sorted out at mines.	nil	nil	
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No specific remarks.

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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	--	-	No impact of mining on aesthetic beauty in and around mines area.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitting	-	-
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	-	The lease area is under lake.
9d	Scrutiny of Annual return on afforestation	Given	-	

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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	not applicable	-

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**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 12(3)	27/01/2016				
Rule 13(1)	27/01/2016				
Rule 23F(1)	27/01/2016				

**Date :**

**(K.SRINIVAS)**

Indian Bureau of Mines