

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

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KRL/ERNK/GR/1/BNG

Mine code : 28KRL11001

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Krishnan, Qualified Person, Sri Suresh Kumar, the
Official with
Designation
- (iv) Date of Inspection : 03/05/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALLOORKAD GRAPHITE MINES**
- (b) **Registration NO.** : **IBM/5550/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KERALA
District : ERNAKULAM
Village : KALLOORKAD
Taluka : MUVATTUPUZHA
Post office : KALLOORKAD
Pin Code :
FAX No. : nil
E-mail : tgmccmpk@gmail.com,
Phone : 09995809810
- (f) Police Station : KALLOORKAD
- (g) First opening date : 20/06/2006
- (h) Weekly day of rest : SUN
2. Address for : Thomson Graphite Mines &Crucible Works,
correspondance Rajbhavan, Companymukku, Vellanad P O,
Nedumangad, Thiruvananthapuram - 695543
3. (a) Lease Number : KRL0248
- (b) Lease area : 1.25
- (c) Period of lease : 20
- (d) Date of Expiry : 06/06/2026
4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : THOMSON GRAPHITE CRUCIBLE WORKS
THIRUVANANTHAPURAM
KERALA
Phone:
FAX :

Owner : THOMSON GRAPHITE CRUCIBLE WORKS
ThomsonGraphitemines
&Crucible Work
Company mukku, Vellanad (p.o)
Thiruvananthapuram
THIRUVANANTHAPURAM KERALA
Phone: 09995809810
FAX : nil

6. Date of approval of Mining : Fresh under rule 22 MCR1960 27/03/1996
Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 02/02/2015

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	None	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	-	-	Reserves as on 1.4.2017 is 15793 tonnes as per the last approved document.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There are no approved proposals.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposals	within the pit.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals	yes	-
2c	Stripping ratio or ore to OB ratio	No proposals	Nil	The mining operations were suspended.
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	-	-	No approved proposals and the mining operations were suspended.
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	No proposals	one	-
3b	Quantity of ROM mineral production proposed	No proposals	nil	-
3c	Recovery of sailable/usable mineral from ROM production	No proposals	nil	-
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	-
3g	Grade of sub grade mineral generation	No proposals	nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals	nil	-
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 specified	-
3n	Ore to OB ratio for the pit/mine during the year.	No proposals	not available	-
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: 1050t 2013-14: 1000t 2014-15:1200t 2015-16: nil 2016-17: nil	2012-13: 1050t 2013-14: 1000t 2014-15:175t 2015-16: 240t 2016-17:660t	The mining operations have been suspended.
3q	General remarks of inspecting officers on method of mining etc.	-	-	The lessee is not having the approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No approved proposals	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	No proposals	South eastern side	-
4c	Number of dumps within lease area and outside of lease area	No proposals	one	-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposals	outside	-
4e	Number of active and alive dumps.	No proposals	one	-
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	-	-	No specific comments

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 comments.
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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).	-	Not 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.	-	-	The lessee is not having the approved proposals.

Mineral Conservation:

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

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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto Nov,2017 AR submitted upto 2016-17	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	not given	Not appointed	violaton already 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 cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :**(K.SRINIVAS)**

Indian Bureau of Mines