

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

Review and updation of Mining Plan REPORT

Chennai regional office

Mine file No : TN/TCR/GNT-9.MDS

Mine code : 26TMN14013

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri. G.sournadurai kannan SMG & P.Viswanathan QP
Official with
Designation
- (iv) Date of Inspection : 24/02/2024
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NADUVALUR(3.070HA) GARNET**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : TIRUCHIRAPALLI
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 29/03/2010
- (h) Weekly day of rest : SUN
2. Address for
correspondance :
3. (a) Lease Number : TMN1556
(b) Lease area : 3.07
(c) Period of lease : 20
(d) Date of Expiry : 30/03/2030
4. Mineral worked : GARNET Main

5. Name and Address of the

Lessee : RIVERWAYS MINES AND MINERALS LTD
6/9 KASTURI ESTATE, 3 rd
STREET,Poes Garden CHENNAI
CHENNAI CITY TAMIL NADU
Phone:044-42088758
FAX :

Owner : RIVERWAYS MINES AND MINERALS LTD
CHENNAI CITY TAMIL NADU
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/10/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	12/05/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL. No proposal during 2022-23.	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	During 2010-11 [5nos.DTH drills-15m depth each]
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	Geo Exploration and Mining Solution conducted total No.of 5 Bore holes with 15mtrs depth completed during the year 2010-2011 .
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Mine not in operation since 2013.
1e	Balance reserve as on 01/04/20	—	49000 tonnes.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Mine not in operation since 2013.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NIL	NIL	No valid document after 2020. Mine not in operation since 2013.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	Mine not in operation since 2013
2c	Stripping ratio or ore to OB ratio	NIL	NIL	Mine not in operation since 2013
2d	Quantity of topsoil generation in m3	NIL.No proposal.	NIL	Mine not in operation since 2013.

2e	Quantity of overburden generation in m3	NIL	NIL	Mine not in operation since 2013.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	Mine not in operation since 2013.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	NIL. No valid document.	NIL	Mine not in operation since 2013.
3b	Quantity of ROM mineral production proposed	NIL	NIL	Mine not in operation since 2013.
3c	Recovery of sailable/usable mineral from ROM production	NIL	NIL	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	Mine not in operation since 2013.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL

3j	Provision of drilling and blasting in mineral benches	NIL	NIL	NIL
3k	Provision of mining machineries in mineral benches	NIL	NIL	Mine not in operation since 2013.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NIL	NIL	NIL
3m	Total area covered under excavation/pits	NIL. No valid document.	small old pit worked earlier partly filled with soil exist.	Mine not in operation since 2013.
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL	NIL
3o	Total area put in use under different heads at the end of year	NIL	NIL	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 9976Ts 2019-20 - 9368Ts 2020-21 - Nil 2021-22 - Nil 2022-23 - Nil	2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22 - Nil 2022-23 - NIL	Mine not in operation since 2013.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Mine not in operation since 2013.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NIL	Mine not in operation since 2013.
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	Mine not in operation since 2013.

4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Mine not in operation since 2013.

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	Mineral not fully extracted.	Mine not in operation since 2013.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	Mine not in operation since 2013.

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mine not in operation since 2013.

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.	NIL	Mine not in operation since 2013.
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL. Thorny bushes naturally grown spread over lease area.	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NIL	NIL	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NIL	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	NIL	NIL	Mine not in operation since 2013.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mine not in operation since 2013.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	Mine not in operation since 2013.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	Mine not in operation since 2013.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Mine not in operation since 2013.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	Mine not in operation since 2013.
8b	Concurrent use or storage of topsoil	NIL	NIL	Mine not in operation since 2013.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	No plantation Noticed. Area covered by naturally grown thorny bushes	Mine not in operation since 2013.
8g	Survival rate	NIL	NIL	NIL
8h	Water sprinkling on roads to control airborne dust	NIL	NIL	Mine not in operation since 2013.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Mine not in operation since 2013.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR not submitted for the year 2022-23.	NIL	Mine not in operation since 2013.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NIL	NIL	Mine not in operation since 2013
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR not submitted.	Small excavation exist.	Mine not in operation since 2013.
9d	Scrutiny of Annual return on afforestation	NIL	NIL	Mine not in operation since 2013.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	Mine not in operation since 2013.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL	NIL	Mine not in operation since 2013.
9h	Scrutiny of Annual return on fixed assets	NIL	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	NIL	Mine not in operation since 2013.

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 :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines