

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TNL/LST-1-MDS

**Mine code :** 38TMN15088

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. R. Balasubramanian, Agent (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 27/01/2021
- (v) Prev.inspection date : 15/10/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAMAYANPATTI -12.12 (GO.1**
- (b) **Registration NO.** : **IBM/7025/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : RAMAYANPATTI
- Taluka : TIRUNELVELI
- Post office : TIRUNELVELI
- Pin Code : 627358
- FAX No. : 0462-2339248
- E-mail : admn@krishnamines.com
- Phone : 0462-2333200
- (f) Police Station : SANKAR NAGAR
- (g) First opening date : 01/07/1958
- (h) Weekly day of rest : SUN
2. Address for : KRISHNA MINES  
correspondance NO:23 RD SRIPURAM,  
TIRUNELVELI.
3. (a) Lease Number : TMN1234
- (b) Lease area : 12.12
- (c) Period of lease : 10
- (d) Date of Expiry : 21/05/2009
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : SHRI K.SHANKAR  
 23, SRIPURAM TIRUNELVELLI  
 TIRUNELVELI TAMIL NADU  
 Phone:333200,333877  
 FAX :91462-339248

Owner : Vinayak Shankar, Partnership deed holder  
 NO.23,sripuram, Tirunelveli  
 TIRUNELVELI TAMIL NADU  
 Phone:  
 FAX :

Agent : R.Balasubramaniyan  
 NO.23,sripuram Tirunelveli  
 TIRUNELVELI TAMIL NADU  
 Phone:  
 FAX :

Mining Engineer  
 Name : P.krishna Kumar,Full Time  
 Qualification : BE(mining)  
 Appointment/ : 10/07/2014  
 Termination date

Geologist  
 Name : Stalin Prakash,Full Time  
 Qualification : MSC(GEO)  
 Appointment/ : 15/03/2018  
 Termination date

Manager  
 Name : Gopal Palani  
 Qualification : Dip.MIn.Engg.,, FMCC  
 Appointment/ : 20/01/2016  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 24 MCR1960 14/02/1991  
 Mining Scheme rule 12 MCDR1988 07/02/1997  
 Existing rule 11 MCDR1988 17/02/2005  
 Renewal under rule 24 MCR1960 28/01/2009  
 MP review under 17(1) MCR 2016 07/11/2017  
 MP review under 17(1) MCR 2016 04/08/2020

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 Boreholes proposed in the northern side of the lease	Not carried out due to non-availability of drill machines & paucity of funds	Violation issued for non-completion of exploration proposal. Drilling proposal shifted to plan year 2020-21 vide last approved ROMP.
1b	Exploration over lease area for geological axis 1 or 2	G-1	Nil	Violation issued for non-completion of exploration proposal. Drilling proposal shifted to plan year 2020-21 vide last approved ROMP.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Nil	Violation issued for non-completion of exploration proposal. Drilling proposal shifted to plan year 2020-21 vide last approved ROMP.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Northern Portion of the lease area	Not carried out	Violation issued for non-completion of exploration proposal. Drilling proposal shifted to plan year 2020-21 vide last approved ROMP.
1e	Balance reserve as on 01/04/20	-	A. Mineral Reserve  1. Proved Mineral Reserve 111 1251604 1398560  Lump Medium Grade Lump Low Grade 2. Probable Mineral Reserve 121 0  122 543091	Nil

1f	General remarks of inspecting officers on geology, exploration etc	-	-	Violation issued for non-completion of exploration proposal. Drilling proposal shifted to plan year 2020-21 vide last approved ROMP.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Southern Portion of the lease	Southern Portion of the lease	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	Nil	No Top Soil / OB
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.20	Marginally higher qty of Mineral Rejects generated than envisaged
2d	Quantity of topsoil generation in m3	Nil	Nil	No Top Soil
2e	Quantity of overburden generation in m3	Nil	Nil	No OB (Only Mineral Rejects generated)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	As proposed
3b	Quantity of ROM mineral production proposed	1,76,316 te	1,79,050 te	Mineral Reject generation was slightly higher than envisaged.

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3c	Recovery of sailable/usable mineral from ROM production	1,49,869 te	1,49,610 te	Within limit
3d	Quantity of mineral reject generation	26,447 te	29,440 te	Marginally higher mineral reject generation than envisaged
3e	Grade of mineral rejects generation and threshold value declared.	CaCO <sub>3</sub> < 34%	CaCO <sub>3</sub> < 34%	As proposed
3f	Quantity of sub grade mineral generation.	Nil	Nil	No Sub-grade generation
3g	Grade of sub grade mineral generation	Nil	Nil	No sub-grade generation
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	As proposed
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	Drilling & Blasting Proposed	Drilling & Blasting carried out	As proposed
3k	Provision of mining machineries in mineral benches	Proposed	Deployed	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m high benches proposed	10 m high benches maintained	As proposed
3m	Total area covered under excavation/pits	7.21 Ha	7.21 Ha	As proposed
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.20	Mineral Reject generation was marginally higher than envisaged

3o	Total area put in use under different heads at the end of year	Area under excavation - 7.21 ha Waste Dump - 4.07 ha Roads & Infrastructure - 0.28 ha Green Belt & Safety Zone - 0.56 ha	Area under excavation - 7.21 ha Waste Dump - 4.07 ha Roads & Infrastructure - 0.28 ha Green Belt & Safety Zone - 0.56 ha	As proposed
3p	Production of ROM mineral during the last five year period as applicable	2015-16 149782 2016-17 149659 2017-18 149930 2018-19 149613 2019-20 149869	2015-16 148657 2016-17 148500 2017-18 149700 2018-19 149300 2019-20 149610	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	Satisfactory

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	Nil	No Top Soil / OB. Only Mineral Reject generated from ROM.
4b	Location of topsoil, OB and mineral reject dumps	Mineral Rejects proposed to be dumped in the Northern & North-Eastern side of the lease	Mineral Rejects dumped in the Northern & North-Eastern side of the lease	As proposed
4c	Number of dumps within lease area and outside of lease area	1	1	Within the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	As proposed
4e	Number of active and alive dumps.	1	1	On the Northern & North-Eastern side of the lease
4f	Number of dead dumps.	1	1	Stabilised by terracing & plantation

4g	Number of dumps established.	1	1	Stabilised by terracing & plantation
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Garland drains maintained	As proposed
4i	Length of Retaining wall or garland drain all along dumps	164 m <sup>3</sup> proposed	200 mts Garland drain made all along the dump	Adequate
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

#### 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	Mineral not exhausted yet. Mining under progress.
5b	Area under backfilling of mined out area	NA	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Top Soil envisaged	No Top Soil generated	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	No	Violation to be issued
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	1 ha	1 ha	As proposed
6d	No. of saplings planted during the year	2000 nos	2015 nos	As proposed
6e	Cumulative no .of plants	4000 nos (during the plan period from 2018-19 to 2019-20)	4015 nos (during the plan period from 2018-19 to 2019-20)	As proposed
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 75,000/-	Watch & ward appointed	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	Mineral not exhausted yet.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Mineral not exhausted yet.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	Mineral not exhausted yet



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Mineral not exhausted yet
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)	Yes	Carried out	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation issued for non-submission of Annual Report on PMCP.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	No sorting at mine

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil
7c	Different grade of mineral sorted out at mines.	NA	NA	Nil
7d	Any beneficiation process at mines .	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Satisfactory

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Top Soil removal proposal for the year	No top soil removed	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB envisaged	No OB excavated	Only mineral rejects generated during the year
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling not proposed during the plan period	Backfilling not carried out	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the plan period	Not carried out	Mineral not exhausted yet
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4000 nos saplings proposed to be planted cumulatively during the plan period	4015 nos saplings planted cumulatively during the plan period	Nil
8g	Survival rate	90%	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water Sprinkling is carried out with water tankers as well as rain guns	Adequate
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Satisfactory

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager Gopal Palani Mining Engineer in charge P.Krishna Kumar Geologist in charge NIL	Violation issued for non-appointment of Geologist

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	Under forest forest (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 7.210 7.210 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 4.070 4.070 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.280 0.280 (vi) Other Purpose (0) 0.000 0.560 0.560 (vii) Work done under progressive mine closure pla	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 4. Mining Operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 0 (b) Outside lease area 2015	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 25437 b. Grade CaO 30% and MgO 4%	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 149610.000 0.000	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-mine price - Rs 1,212.91/- Cost of Production - Rs 956.00/-	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Assets - Rs 2,17,90,490/-	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 6400.000 CUM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.200 CUM 2 Non Electrical Opencast DUMPER 25.000 TONNE 2 Non Electrical Opencast BLAST HOST DRILL 110.000 MM 1 Non Electrical Opencast FRONT END LOADER 1.700 CUM 2 Non Electrical Opencast EXPLOSIVE VAN 1.000 TONNE 1 Non Electrical Opencast GENERATOR (DIESEL) 200.0	Nil

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**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
MCDR17 Rule 11(1)	08/02/2021				
MCDR17 Rule 55(1)(1)	08/02/2021				

**Date :**

**(Matiul Islam)**

Indian Bureau of Mines