

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

**Review and updation of Mining Plan REPORT**

**Chennai regional office**

**Mine file No :** TN/KRR/LST-35.MDS

**Mine code :** 38TMN28029

- (i) Name of the Inspecting : **K08** ) **G.SORNADURAI KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru.E.Dhanapal, Lessee & Thiru.P.Viswanathan, QP  
Official with  
Designation
- (iv) Date of Inspection : 14/04/2023
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THENNILAI (2.515 HA)**
- (b) **Registration NO.** : **IBM/9752/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : TAMIL NADU  
District : KARUR  
Village : THENNILA  
Taluka : KULITHALAI  
Post office : THARAGAMPATTI  
Pin Code :  
FAX No. : 04312792261  
E-mail : omsakthitile@gmail.com  
Phone : 04312791372
- (f) Police Station : Chintamanipatti
- (g) First opening date : 15/07/1999
- (h) Weekly day of rest : SUN
2. Address for : THENNILAI VILL  
correspondance : KULITHALAI TK  
KARUR DT.
3. (a) Lease Number : TMN1104
- (b) Lease area : 2.52
- (c) Period of lease : 20
- (d) Date of Expiry : 11/11/2018
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : E.DHANAPAL  
 D/364, FIRST CROSS ANNA  
 NAGAR, THENNUR TRICHY  
 TIRUCHIRAPALLI TAMIL NADU  
 Phone:  
 FAX :

Owner : E.DHANAPAL  
 D/364, UKKALIAMMAN KOIL  
 STREET ANNA NAGAR TRICHY  
 TIRUCHIRAPALLI TAMIL NADU  
 Phone:  
 FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	20/04/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	08/08/2013
		Mining Scheme rule 12 MCDR1988	01/04/2016
		MP modif under 17(3) MCR 2016	23/05/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Boreholes has been proposed during 2022-2023.	No Boreholes has drilled	Mine is non-working from 2016-2017.
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2022-2023	Nil	Entire lease area is proved upto 33m depth and under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2022-2023	No Boreholes has been drilled	So far 6 boreholes have been drilled in the lease upto 2022-2023. Total expenditure towards exploration is 1.60 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2022-2023.	No Exploration has been carried out during 2022-2023.	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	As on 01.04.2023 Proved Mineral Reserves (111) = Nil Pre-Feasibility Mineral Resources (221) = 378000 tons	As on 01.04.2023 Proved Mineral Reserves (111) = 306000 tons Pre-Feasibility Mineral Resources (221) = 378000 tons	It is proposed to use the entire 111 category ore for mining, but mine is not in operation for 2016-2017. The available grade of Limestone in this lease is cement Grade.
1f	General remarks of inspecting officers on geology, exploration etc	Area comprises Crystalline Archean rocks of deep seated metamorphic origin.	The deposit consists of Granite Gneiss and Crystalline limestone intruded by younger granite.	Limestone is medium to coarse grained. Covered by 1m thick topsoil.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During 2022-2023, working proposal was in between section line XY-CD.	Nil	The mine is not in operation from 2016-2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Minerals - 8 Benches	Nil	The mine is not in operation from 2016-2017.
2c	Stripping ratio or ore to OB ratio	1 : 0.71	Nil	The mine is not in operation from 2016-2017.
2d	Quantity of topsoil generation in m3	No Proposal during 2022-2023	Nil	The mine is not in operation from 2016-2017.
2e	Quantity of overburden generation in m3	464 cu.m of OB Proposed during 2022-2023	Nil	The mine is not in operation from 2016-2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2022-2023, working proposal was in between section line XY-CD.	464 cu.m of OB Proposed during 2022-2023	The mine is not in operation from 2016-2017 for want of statutory clearance.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was Proposed in between section line XY-CD.	Nil	The mine is not in operation from 2016-2017.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 44772 tons during 2022-2023.	Nil	The mine is not in operation from 2016-2017.
3c	Recovery of sailable/usable mineral from ROM production	60% Recovery-	Nil	The mine is not in operation from 2016-2017.
3d	Quantity of mineral reject generation	17909 tons of Mineral Rejects has proposed.	Nil	The mine is not in operation from 2016-2017.

3e	Grade of mineral rejects generation and threshold value declared.	High silica is considered as mineral rejects.	Nil	The mine is not in operation from 2016-2017.
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	Nil	The mine is not in operation from 2016-2017.
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	Nil	The mine is not in operation from 2016-2017.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Nil	The mine is not in operation from 2016-2017.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	The mine is not in operation from 2016-2017.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting are proposed	Nil	The mine is not in operation from 2016-2017.
3k	Provision of mining machineries in mineral benches	Excavators Rock Breakers Tippers Drills Compressor	Nil	The mine is not in operation from 2016-2017.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-2023, Bench height of 4m was proposed in Mineral.	Nil	The mine is not in operation from 2016-2017.
3m	Total area covered under excavation/pits	1.84 hect area is proposed for Pit during 2022-2023	1.24 hect areas are under Pit only.	The mine is not in operation from 2016-2017. So additional proposed area is not achieved.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.71	Nil	The mine is not in operation from 2016-2017.

3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 1.84 hect Green Belt = 0.28 hect	Land use Pattern as on 01.04.2023. Mines = 1.24 hect Green Belt = 0.08 hect	Due of non-working of mines, proposal is not achieved.
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 44772 tons 2021-2022 = 39302 tons 2020-2021 = 42338 tons 2019-2020 = 129262 tons 2018-2019 = 50929 tons	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil	The mine is not in operation from 2016-2017 for want of statutory clearance.
3q	General remarks of inspecting officers on method of mining etc.	Production was Proposed in between section line XY-CD.	The total target of ROM Production proposed was 44772 tons during 2022-2023.	The mine is not in operation from 2016-2017 for want of statutory clearance.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2016-2017.
4b	Location of topsoil, OB and mineral reject dumps	Re-handling and backfilling has been proposed.	Nil	The mine is not in operation from 2016-2017.
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	Violation has been issued under Rule 11(1).
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Re-handling and backfilling has been proposed.	Nil	The mine is not in operation from 2016-2017.
4e	Number of active and alive dumps.	Active Dump = Nil	Nil	The mine is not in operation from 2016-2017.
4f	Number of dead dumps.	No Proposal	Nil	The mine is not in operation from 2016-2017.

4g	Number of dumps established.	No Dumps have been established.	Nil	The mine is not in operation from 2016-2017.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	The mine is not in operation from 2016-2017.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	The mine is not in operation from 2016-2017.
4j	Number of settling ponds	No Proposal	Nil	The mine is not in operation from 2016-2017.
4k	Specific comments of inspecting officer on waste dump management	There is no proposal for dumping during 2022-2023	Re-handling and backfilling has been proposed.	The mine is not in operation from 2016-2017 for want of statutory clearance.

#### 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.	Part Backfilling has been proposed during 2022-2023	No backfilling has done during 2022-2023	Violation has been issued under Rule 11(1).
5b	Area under backfilling of mined out area	0.29 hectares are proposed for backfilling during 2022-2023	No backfilling has done during 2022-2023	The mine is not in operation from 2016-2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Restoration of mined out area is proposed	Nil	The mine is not in operation from 2016-2017.
5d	Total area fully reclaimed and rehabilitated	0.81 hectares are proposed for backfilling upto 2022-2023	No backfilling has done upto 2022-2023	The mine is not in operation from 2016-2017.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Part Backfilling has been proposed during 2022-2023	No backfilling has done upto 2022-2023	The mine is not in operation from 2016-2017 for want of statutory clearance.
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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).	It should be on or before 1st July every year.	Not Submitted	The mine is not in operation from 2016-2017.
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	The mine is not in operation from 2016-2017.
6c	afforestation done (ha).	No Proposal	Nil	The mine is not in operation from 2016-2017.
6d	No. of saplings planted during the year	No Proposal	Nil	The mine is not in operation from 2016-2017.
6e	Cumulative no .of plants	No Proposal	Nil	The mine is not in operation from 2016-2017.
6f	Any other method of rehabilitation	No Proposal	Nil	The mine is not in operation from 2016-2017.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	The mine is not in operation from 2016-2017.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil	The mine is not in operation from 2016-2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	The mine is not in operation from 2016-2017.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	The mine is not in operation from 2016-2017.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	The mine is not in operation from 2016-2017.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	The mine is not in operation from 2016-2017.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	20 saplings proposed in safety barrier on East & North lease boundary for 2022-2023	20 saplings have planted within lease area during 2022-2023.	Cumulatively 100 saplings has been planted from 2018-2019 to 2022-2023.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Proposed 0.020 hect in lease area for 2022-2023	0.020 hect achieved in lease area for 2022-2023	Cumulatively 100 saplings has been planted from 2018-2019 to 2022-2023.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Green Belt development along 7.5m safety barrier.	Plantation has been done as per proposal along the safety barrier.	Cumulatively 100 saplings has been planted from 2018-2019 to 2022-2023.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Nil	The mine is not in operation from 2016-2017.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	20 saplings proposed in safety barrier on East & North lease boundary for 2022-2023	Total 100 saplings have planted within lease area during 2018-2019 to 2022-2023.	The mine is not in operation from 2016-2017 for want of statutory clearance.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production proposed was 44772 tons during 2022-2023.	Nil	The mine is not in operation from 2016-2017.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade wise mineral sorting in the lease area.	Nil	The mine is not in operation from 2016-2017.
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is cement grade	Nil	The mine is not in operation from 2016-2017.
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	The mine is not in operation from 2016-2017.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production proposed was 44772 tons during 2022-2023.	The Limestone of the lease area is cement grade	The mine is not in operation from 2016-2017 for statutory clearance.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal during 2022-2023	Nil	The mine is not in operation from 2016-2017.
8b	Concurrent use or storage of topsoil	No Proposal during 2022-2023	Nil	The mine is not in operation from 2016-2017.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2016-2017.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste rock has been proposed for backfilling during 2022-2023	Nil	The mine is not in operation from 2016-2017.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Waste rock has been proposed for backfilling during 2022-2023	Nil	The mine is not in operation from 2016-2017.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 saplings proposed in safety barrier on East & North lease boundary for 2022-2023	20 saplings have planted within lease area during 2022-2023.	The mine is not in operation from 2016-2017.
8g	Survival rate	70%	50%	The mine is not in operation from 2016-2017.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Nil	The mine is not in operation from 2016-2017.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Degraded Mining Land	Outside lease area, agriculture is done with drift irrigation.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.

9d	Scrutiny of Annual return on afforestation	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9h	Scrutiny of Annual return on fixed assets	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.
9k	Scrutiny of Annual return on mining machineries	Nil	Monthly & Annual Returns has not submitted for last 2 years	The mine is not in operation from 2016-2017 for statutory clearance.

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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
MCDR17	Rule 11(1)	24/04/2023			
MCDR17	Rule 27(2)	24/04/2023			
MCDR17	Rule 45(5)(c)	24/04/2023			

**Date :**

(G.SORNADURAI KANNAN)

Indian Bureau of Mines