

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/VRD/LST-28.MDS

**Mine code :** 38TMN30021

- (i) Name of the Inspecting : **N001** ) **N.SUBRAHAMAANYAM**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : None  
Official with  
Designation
- (iv) Date of Inspection : 01/11/2016
- (v) Prev.inspection date : 18/02/2010

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PANNAIMOONRADAIPPU(3.31HA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : VIRUDHUNAGAR  
Village : PANNAIMOONTRADAIPPUR  
Taluka : TIRUCHULI  
Post office : P.THOTTIAMKULAM  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 03/09/2005
- (h) Weekly day of rest : SUN
2. Address for : PANNAIMOODRADAIPPU VILL,  
correspondance TIRUCHULI TK,  
VIRUDHUNAGAR DT.
3. (a) Lease Number : TMN1001
- (b) Lease area : 3.31
- (c) Period of lease : 20
- (d) Date of Expiry : 26/09/2025
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : R.PALANISAMY, OWNER  
39/2H, RAJIV NAGAR  
SEETHARAMAPALAYAM PO  
TIRUCHENGODE NAMAKKAL TAMIL  
NADU  
Phone:  
FAX :

Owner : R.PALANISAMY  
39/2H, RAJIV NAGAR  
SEETHARAMAPALAYAM POST  
TIRUCHENGODE NAMAKKAL TAMIL  
NADU  
Phone:  
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 25/07/2005  
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.	Existing pit: 170x66x15m depth.
1b	Exploration over lease area for geological axis 1 or 2	Nil.	Nil.	Existing pit: 170x66x15m depth.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	Nil.	Existing pit: 170x66x15m depth.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	Nil.	Mine is not working due to suspension of mining operation for non-submission of scheme of mining. 50% of lease area to be explored. Existing pit: 170x66x15m depth.
1e	Balance reserve as on 01/04/20	37500 tones (111) & 42000 tones (222)	Reserves and resources have been estimated up to 16m depth from surface.	Mine is not working due to suspension of mining operation for non-submission of scheme of mining.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil.	Mine is not working due to suspension of mining operation for non-submission of scheme of mining.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Centre part of lease area on existing pit: 170x66x15m depth	Nil.	Mine is not working as proposed due to labour problems and suspension of mining operation for non-submission of scheme of mining.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for topsoil cum OB and ore are proposed.	Same as proposed.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.04	Same as proposed.	Nil.
2d	Quantity of topsoil generation in m3	Top soil cum overburden generation in m3 is nil as deposit is opened	Nil.	Nil,
2e	Quantity of overburden generation in m3	Top soil cum overburden generation in m3 is nil as deposit is opened	Nil.	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	Mine is not working as per proposal by Cat" B" opencast method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity.	Nil.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at center part of lease area i.e. 170x66x15m depth	Mine is not working as proposed due to labour problems and suspension of mining operation for non-submission of scheme of mining.	No comments.
3b	Quantity of ROM mineral production proposed	No approved scheme of mining.	Mine is not working due suspension of mining operation for non-submission of scheme of mining.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	1:0.04	Same as proposed	Nil.

3d	Quantity of mineral reject generation	Top soil cum overburden generation in m3 is nil as deposit is opened	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Same as proposed.	Nil
3f	Quantity of sub grade mineral generation.	No sub-grade mineral.	Same as proposed.	Below 40% of CaCO <sub>3</sub> with contaminations of calc gneiss waste are considered as mineral rejects in these particular formations.
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Cat" B" opencast manual method.	Same as proposed.	Nil.
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 is proposed by contract basis.	Same as proposed.	Nil
3k	Provision of mining machineries in mineral benches	Excavators for development of benches and loading.	Excavators will be deployed for development of benches and loading. Manual labours will be engaged with the help of spades and axes for removing the ROM and hand sorting	No comments.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench in overburden is 1m and mineral bench is 3m.	Same as proposed.	Nil.

3m	Total area covered under excavation/pits	1.04 ha	Same as proposed.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.65	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	1.71 ha	Same as proposed.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	Nil	Nil.	Mine is not working and is under suspension for non-submission of scheme of mining.
3q	General remarks of inspecting officers on method of mining etc.	Nil.	Nil.	Mine is not working and is under suspension for non-submission of scheme of mining.

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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)	Top soil dump & waste dumps are proposed.	Proposed as per proposal.	No comments.
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at north & Southern side of ML area.	Proposed as per proposal.	No comments.
4c	Number of dumps within lease area and outside of lease area	Within lease area three dumps without.	Proposed as per proposal.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Three dumps are active & alive.	Proposed as per proposal	Nil.
4e	Number of active and alive dumps.	Three dumps are active & alive.	Proposed as per proposal	No comments.
4f	Number of dead dumps.	Nil.	Nil.	No comments.
4g	Number of dumps established.	Nil.	Nil.	No comments.

4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall or garland drain all along dumps proposed.	Not applicable.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Nil.	Nil.
4j	Number of settling ponds	Nil.	Nil.	Nil.
4k	Specific comments of inspecting officer on waste dump management	Top soil dumping is partly utilized for plantation.	Topsoil dump does not have any problem of wash offs.	Mine is not working and is under suspension for non-submission of scheme of mining.

#### 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.	After complete extraction of Limestone, pits shall be backfilled.	Limestone is yet to be exhaust.	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation use only.	As proposed is maintained	Nil.
5d	Total area fully reclaimed and rehabilitated	Not applicable at present.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	The plantations along the safety barrier have been marked.	As per proposal.	Nil

#### 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).	Not submitted.	Nil	No comments.
6b	Area available for rehabilitation (ha) .	Nil.	Nil.	No comments.
6c	afforestation done (ha).	0.07	0.12	No comments.
6d	No. of saplings planted during the year	20 nos	20 nos	Poor growth due to water problems..
6e	Cumulative no .of plants	125	125	Poor growth due to water problems..
6f	Any other method of rehabilitation	Nil.	Nil.	No comments.
6g	Cost incurred on watch and care during the year	Nil.	Nil.	No comments.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil.	Nil.	No comments.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil.	Nil.	No comments.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil.	Nil.	No comments.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil.	Nil.	No comments.



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil.	Nil.	No comments.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil.	Nil.	No comments.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil.	Nil.	No comments.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil.	Nil.	No comments.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil.	Nil.	No comments.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Mine is not working as per proposal by Cat" B" opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts / 20Ts capacity	Mine is not working and is under suspension for non-submission of scheme of mining.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral would be sorting grade wise with in lease area.	Same as proposed.	Nil.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Nil.

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7c	Different grade of mineral sorted out at mines.	Nil.	The grades of ore are almost uniform.	Nil.
7d	Any beneficiation process at mines	Nil	Nil	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	Mine is not working by as per proposal by Cat " B" opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil cum OB is being removed separately for future utilization.	Same as proposed.	Nil.
8b	Concurrent use or storage of topsoil	Topsoil/OB is stored separately for plantation purpose only.	Same as proposed.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps to be made for topsoil cum overburden, rejects.	Same as proposed.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generation of topsoil cum overburden is for plantation and rejects for backfilling.	Same as proposed.	Nil.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Since the lease area is small, does not arise.	No comments.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area is dry and barren.	Some plantations have been made along the lease boundary within safety zone.	Nil.
8g	Survival rate	80%	55%	Due to water problems.
8h	Water sprinkling on roads to control airborne dust	No proposal	Since the lease area is small, does not arise.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Area is dry and barren.	Some greenery has been developed by mine management	Mine is not working and is under suspension for non-submission of scheme of mining.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns have not been submitted.	Nil.	Mine is not working and is under suspension for non-submission of scheme of mining.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Monthly and annual returns have not been submitted.	Nil.	No comments.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Monthly and annual returns have not been submitted.	Nil.	Nil.

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9d	Scrutiny of Annual return on afforestation	Nil.	Nil.	No comments.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	Nil.	No comments.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil.	Nil.	No comments.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil.	Nil.	No comments.
9h	Scrutiny of Annual return on fixed assets	Nil.	Nil.	No comments.
9k	Scrutiny of Annual return on mining machineries	JCB for loading & 10 ton tipper fir transporting are being used	Nil.	Mine is not working by as per proposal by Cat" B" opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity. mine is not working and is under suspension for non-submission of scheme of mining.

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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

**Date :**

**(N.SUBRAHAMAANYAM)**

Indian Bureau of Mines