

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/DMT/LST-3.MDS

Mine code : 38TMN33017

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Navaneetha Krishnan rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 20/10/2016
- (v) Prev.inspection date : 20/02/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MALLAPURAM(1.905HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : DINDIGUL
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 20/09/1997
- (h) Weekly day of rest : SUN
2. Address for : GLOBAL MINES & MINERAL TRADERS
correspondance : POOSARIKADU,SEERAPALLI (PO)
NAMAKKAL DIST
3. (a) Lease Number : TMN0554
- (b) Lease area : 1.9
- (c) Period of lease : 20
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : P.MURUGESAN
PUDHUVALASU SOWDHAPURAM
TIRUCHENGODE TK NAMAKKAL
TAMIL NADU
Phone:
FAX :

Owner : P.MURUGESAN
PUDHUVALASU SOWDHAPURAM
TIRUCHENGODE TK NAMAKKAL
TAMIL NADU
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 24/04/2012
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 Bore holes with 50m intervals up to 4m depth from surface.	Exploration was carried out as proposed	No comments.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Existing pit has 250mx 40m x20m depth.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	No comments.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Less than 50% of lease area to be explored.	Nil.	No comments.
1e	Balance reserve as on 01/04/20	50450 tones (111) & 205793 tones (221)	Reserves and resources have been estimated up to 15m depth from surface.	No comments
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Centre part of lease area No Overburden. Pit 21m x 18m x4m depth.	Same as proposed.	Nil
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	At present no top soil cum overburden is generated.	Same as proposed.	Nil

2e	Quantity of overburden generation in m3	At present no top soil cum overburden is generated.	Same as proposed.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Nil	Mine is working as per proposal by Cat" 'A' other than fully mechanized opencast method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts/20 Ts capacity.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at centre part of lease area 21m x 18m x4m depth.	Working as proposed	Nil.
3b	Quantity of ROM mineral production proposed	Proposed 9500 tones	Achieved as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	Salable is 70% from ROM	Achieved as proposed	Nil.
3d	Quantity of mineral reject generation	No rejects	Mineral rejects is 30% of ROM which includes rock fragments, impurities etc.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	No rejects	Nil.	Nil.
3f	Quantity of sub grade mineral generation.			
3g	Grade of sub grade mineral generation	Nil	Nil	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Cat" A" other than fully mechanized opencast 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.	No comments.
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	Nil.
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 2.5 m.	Same as proposed..	Nil.
3m	Total area covered under excavation/pits	1.13 ha	Same as proposed.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.57	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	1.36 ha	Same as proposed.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	1.2011-12:6406 2.2012-13:7498 3.2013-14:7644 4.2014- 15:10026 5.2015-16:3200	2011-12:5900 2012-13:6500 2013-14:8500 2014-15:9800 2015-16:5300	The deviation in production is not significant

3q	General remarks of inspecting officers on method of mining etc.	Nil	Nil	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. The deviation in production is not significant
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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.	Nil
4b	Location of topsoil, OB and mineral reject dumps	All along safety zone at East & South direction only.	Proposed as per proposal.	Nil.
4c	Number of dumps within lease area and outside of lease area	Within lease area two dumps.	As proposed is maintained.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are far away from UPL	Proposed as per proposal.	Nil.
4e	Number of active and alive dumps.	Two dumps are active & alive.	Proposed as per proposal	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.	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.	Nil.

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
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.	Nil.

6c	afforestation done (ha).	0.07	0.12	Nil.
6d	No. of saplings planted during the year	20	20	nil
6e	Cumulative no .of plants	125	125	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 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	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	Mine is working by as per proposal by Cat" A" other than fully mechanized opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts / 20Ts capacity

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	No comments.
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 working by as per proposal by Cat" A" other than fully mechanized opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity

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.	Nil.
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.	No comments.
8g	Survival rate	80%	50%	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.	Some greenery has been developed by mine management.

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 been submitted.	Monthly and annual returns have been submitted and checked to be in order.	No comments.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	All monthly returns and Annual returns have been submitted.	All monthly returns and Annual returns submitted are examined found to be in order.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil

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	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Mine is working by as per proposal by Cat" A" other than fully mechanized opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity

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