

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/NMK/LST-5/MDS.

Mine code : 38TMN23053

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri. M.Vellaiyan rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 18/08/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MINRAL ENTT,GO-168, 0.66H**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : NAMAKKAL
- Village : PALLAKAPALAYAM
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 09/02/1999
- (h) **Weekly day of rest** : SUN
2. **Address for** :
correspondance
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : MINERAL ENTERPRISES
3-3-23A, BARATHI NAGAR,
AKKAMPATTI (PO)
SANKARI, SALEM DISTRICT
SALEM TAMIL NADU
Phone: 0427- 444236
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 08/01/2014
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	Nil
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	ML area is very small, existing pit depth is 38m from surface.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposed 4 BH to explore entire area.	ML area is very small, existing pit depth is 38m from surface.	Nil
1e	Balance reserve as on 01/04/20	Nil	31959t (111) 258997t(221 & 222)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed to develop the mine at NW side of ML area.	Same as proposed.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been formed on topsoil and overburden.	Same as proposed	Nil
2c	Stripping ratio or ore to OB ratio	Ore to OB ratio is 1:0.81	Same as reported.	Nil

2d	Quantity of topsoil generation in m3	240 Cum	Same as reported.	Topsoil is reddish soil; it occurs to a depth of a meter and is being stored & used for plantation of trees and is preserved all along boundary barrier
2e	Quantity of overburden generation in m3	240 cum of Topsoil cum overburden.	Same as reported.	There is no overburden, topsoil is only the overburden.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Nil	No comments.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit on NW side measures as 80x29x5m depth	Mine is working intermittently due to labour problems.	No comments
3b	Quantity of ROM mineral production proposed	1500 tones	Same as proposed. Mine is working intermittently due to labour problems.	No comments.
3c	Recovery of sailable/usable mineral from ROM production	60% recovery of Limestone. 40% mineral waste.	Same as proposed.	Nil
3d	Quantity of mineral reject generation	1200 tones' of mineral rejects	Same as proposed.	No comments.
3e	Grade of mineral rejects generation and threshold value declared.	NA	Nil	Nil
3f	Quantity of sub grade mineral generation.	No sub-grade mineral is produced	No sub-grade mineral is produced	Nil
3g	Grade of sub grade mineral generation	NA	Nil	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Manual method adopted for segregating from ROM.	Same as proposed.	No comments.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is done by contract basis.	Same as proposed.	Nil
3k	Provision of mining machineries in mineral benches	10 ton Tippers are used for transportation of ROM to needy industries.	Same as proposed.	Mining operations are being carried out by opencast manual method.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Existing bench height is 5m & 6m width for easy movement of men and machinery.	Same as proposed. Mining operations are being carried out by opencast manual method.	Nil
3m	Total area covered under excavation/pits	About 0.53 ha area was under excavation.	Same as proposed.	No comments.
3n	Ore to OB ratio for the pit/mine during the year.	Ore to OB ratio is 1:0.89.	Mine is working intermittently due to labour problems. However Ore to OB ratio is 1:0.87 as reported.	Nil
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of year 2015 is about 0.63 ha.	Same as proposed.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2010=900 tons, 2011=900 tons, 2012=990 tons, 2013=778 tons, 2014=127 tons.	2010=200 tons, 2011=800 tons, 2012=886 tons, 2013=990 tons, 2014=727tons.	No comments. Mine is working intermittently due to labour problems.
3q	General remarks of inspecting officers on method of mining etc.	NAQ	NA	No comments.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The existing topsoil cum OB & mineral rejects.	The existing topsoil cum OB & mineral rejects and so generated would be stored separately	Nil
4b	Location of topsoil, OB and mineral reject dumps	The existing & so generated topsoil would be stored all along the boundary barrier and separate dumps are located on non-mineralized area for each of over burden & mineral rejects.	Same as proposed.	Nil.
4c	Number of dumps within lease area and outside of lease area	Two existing and proposed dumps are within the lease area.	Same as proposed.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All the dumps are away from ultimate pit limit.	Same as proposed.	No comments.
4e	Number of active and alive dumps.	There are two active and alive dumps.	Same as proposed.	Nil
4f	Number of dead dumps.	Nil	Not applicable.	No comments.
4g	Number of dumps established.	All are active dumps	All are active dumps	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall or garland drain along the dumps.	Same as proposed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.	No comments.
4j	Number of settling ponds	NA	Nil	No comments.

4k	Specific comments of inspecting officer on waste dump management	Nil	nil	No comments
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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.	Not applicable.	Not applicable.	No comments.
5b	Area under backfilling of mined out area	Not applicable.	Not applicable.	No comments.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable.	Not applicable.	No comments.
5d	Total area fully reclaimed and rehabilitated	Not applicable.	Not applicable.	No comments.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil	No comments.

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).	Nil	The lessee has not submitted annual report on PMCP under rule 23E of MCDR 1988.	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	80%	45%	Due to water problem.

6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no .of plants	80 nos	45 nos	Water problem
6f	Any other method of rehabilitation	NA	Nil	Nil
6g	Cost incurred on watch and care during the year	NA	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	NA	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	Nil	No comments.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	When mine is working 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.	Same as proposed.	Nil
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable	Nil
7d	Any beneficiation process at mines .	Nil	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	No comments.
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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.	Same as proposed.	No comments.
8b	Concurrent use or storage of topsoil	Plantation of trees all along the lease boundary.	Same as proposed.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps to be made for overburden, waste rock, rejects and fines	Same as proposed.	No comments.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Little quantity of overburden is to be used for plantation purpose.	Same as proposed.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Since the lease area is small, does not arise.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Since the lease area is small, does not arise.	Nil
8g	Survival rate	80%	45% due to water shortage.	Nil

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	Nil	Nil	No comments.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted verified is in order.	A.R. not submitted.	Violation letter issued
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Part -time mining engineer appointed.	No comments.
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	80% of Neem and Teak plants	Due to shortage of water only 45% achieved.	No comments.
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	Transportation of Ore and Overburden from pit head to surface then needy industries by contract basis.	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
Rule 45(5)(b)	04/09/2015	19/12/2015			

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines