

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/SLM/LST-149/MDS

Mine code : 38TMN11081

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Srinivasan rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 11/09/2017
- (v) Prev.inspection date : 12/03/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALATHUR(1.59)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : SALEM
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 24/09/1999
- (h) Weekly day of rest : SUN
2. Address for : NO.35, KANAKANKADU, VELLAPPARAI KADU
correspondance : VARUNALLAMPALAYAM, ALATHUR POST
SANKARI, SALEM-637 303.
3. (a) Lease Number : TMN0725
- (b) Lease area : 1.59
- (c) Period of lease : 20
- (d) Date of Expiry : 23/11/2019
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : N.NANJAPPAN, M/S SRI SIVASAKTHI MINERALS
 VARANALLAMPALAYAM ALATHUR
 POST, SANKARI TALUK SALEM
 DISTRICT SALEM TAMIL NADU
 Phone:
 FAX :

Owner : N.NANJAPPAN (SRI SIVASAKTHI MINERALS)
 NO.35, KANAKANKKADU,
 VELLAPPARI KAD
 VARUNALLAMPALAYAM, ALATHUR
 POST SANKARI, SALEM-637
 303. SALEM TAMIL NADU
 Phone:
 FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	02/04/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18/08/2004
		Mining Scheme rule 12 MCDR1988	03/12/2012
		Mining Scheme rule 12 MCDR1988	16/09/2014

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	Three existing pit reached 18m depth from surface. Pit-1:30x25x8m. Pit-2:89x43x15. Pit-3:143mx49mx18m depth.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	The ML area is small & existing pits have covered entire area.	No comments.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Nil
1e	Balance reserve as on 01/04/20	a. ROM-32000 tones(111) b. ROM-90246+127296 tones(221)	a. ROM-32000 tones(111) b. ROM-90246+127296 tones(221)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	From North-East to South-west side of lease area(25x12x3 - 4m Ht)	Same as proposed.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No development on topsoil/overburden. Two benches of 3-4m height.	Separate benches are formed for ore & overburden.	Nil
2c	Stripping ratio or ore to OB ratio	1:0	As reported, same as proposed.	Nil.

2d	Quantity of topsoil generation in m3	100m3 of Topsoil cum overburden.	Same as proposed.	Nil.
2e	Quantity of overburden generation in m3	100m3 of Topsoil cum overburden.	Same as proposed.	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at North-East to South-west side of lease area(25x12x3 - 4m Ht)	Same as proposed.	Mining operations was temporary discontinued due to poor market / labour problems.
3b	Quantity of ROM mineral production proposed	6400 tones	Same as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	60%	As reported 60%	Nil
3d	Quantity of mineral reject generation	No rejects	Mineral rejects is 40% of ROM which includes rock fragments, impurities etc.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No rejects	Mineral rejects is 40% of ROM which includes rock fragments, impurities etc.	Nil.
3f	Quantity of sub grade mineral generation.	No sub-grade mineral.	Below 40% of CaCO3 with contaminations of calc gneiss waste are considered as mineral rejects in these particular formations.	Nil.
3g	Grade of sub grade mineral generation	Nil	Nil	No comments.

3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	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 in mineral are proposed.	Nil	No comments.
3k	Provision of mining machineries in mineral benches	Opencast manual mine, 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.	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of bench in overburden and mineral are proposed.	The proposals of different benches have been suitably proposed.	Nil.
3m	Total area covered under excavation/pits	1.09 ha	1.09 ha	No comments.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.60	Same as reported	Nil.
3o	Total area put in use under different heads at the end of year	1.589 ha	1.589 ha	Nil

3p	Production of ROM mineral during the last five year period as applicable	a. 2012-13:7043. b. 2013-14:8112 c. 2014-15:6521. d. 2015-16:6310. e. 2016-17:8008	a. 2012-13:500. b.2013-14:800 c. 2014-15:1900 D.2015-16:900. e.2016-17:900	Deviation in production is due to market / labour problems
3q	General remarks of inspecting officers on method of mining etc.	Nil.	Mining operations was temporary discontinued due to poor market / labour problems.	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)	Top soil dump & waste dumps are proposed. x	Same as proposed.	No comments.
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at eastern side of ML area.	As per proposal.	Nil.
4c	Number of dumps within lease area and outside of lease area	One dump with in lease area.	As proposed is maintained.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Along eastern side of 7.5m safety zone.	As proposed.	Nil.
4e	Number of active and alive dumps.	One dump	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 is proposed.	Not applicable.	No comments.
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Nil	No comments.

4j	Number of settling ponds	No settling ponds	Not applicable	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.	Mining operations was temporary discontinued due to poor market / labour problems.

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 used as water reservoirs.	Limestone is yet to be exhaust.	Nil.
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	The plantations along the safety barrier have been marked.	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.

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).	The Annual report on PMCP is to be submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Annual report on PMCP is not submitted.	No comments.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.01ha	0.01ha	Mining operations was temporary discontinued due to poor market / labour problems.
6d	No. of saplings planted during the year	20nos	20nos	Mining operations was temporary discontinued due to poor market / labour problems.
6e	Cumulative no .of plants	200nos	90nos	Due to water problems.
6f	Any other method of rehabilitation	Nil	Nil	Mining operations was temporary discontinued due to poor market / labour problems.
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 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	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Mining operations was temporary discontinued due to poor market / labour problems.	No comments.

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.	For future use.
8b	Concurrent use or storage of topsoil	1m OB cum Topsoil is removed separately and dumped for future use of plantation.	For future use.	No comments.
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.	Nil.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generation of topsoil/overburden is a small quantity 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 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.	Nil.
8g	Survival rate	80%	50%	Due to water problem.
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.	Mining operations was temporary discontinued due to poor market / labour problems.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual returns are to be submitted.	Monthly returns and Annual returns are not submitted.	No comments.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil	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	Mining operations was temporary discontinued due to poor market / labour problems.
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	No comments
9k	Scrutiny of Annual return on mining machineries	JCB for loading & 10 ton tipper fir transporting are being used.	Same as proposed.	Mining operations was temporary discontinued due to poor market / labour problems.

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 27(2)	25/09/2017			
MCDR17	Rule 28(1)	25/09/2017		11/12/2017	
MCDR17	Rule 55(1)(3)	25/09/2017			

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines