

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/KDC/LST-6.MDS

Mine code : 38TMN28007

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Navaneethkrishnan rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 15/09/2017
- (v) Prev.inspection date : 17/05/1999

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMBAL**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : KARUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone : 0427 - 414594
- (f) Police Station :
- (g) First opening date : 01/10/1998
- (h) Weekly day of rest : SUN
2. Address for : K.PITCHAMAPATTI VILL. & POST
correspondance : KARUR TALUK & DISTRICT.
3. (a) Lease Number : TMN0560
- (b) Lease area : 4.56
- (c) Period of lease : 20
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : E.SRINIVASAN
5/88 CHINNAGOLAPATTI,
KANNAKURICHI P.O. SALEM
SALEM TAMIL NADU
Phone:
FAX :

Owner : E.SRINIVASAN, SHRI AMMAL LIMESTONE MINE
5/88 CHINNAGOLAPATTI
KANNAKURICHI P.O. SALEM
SALEM TAMIL NADU
Phone:
FAX :

Manager

Name : P.CHINNADURAI
Qualification : B.SC., MINE FOREMAN CERTIFICATE HOLDER
Appointment/ :
Termination date

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 Boreholes drilled & covered entire lease area.	3 existing pits measures as Pit-1: 113x14x10m depth, Pit-2: 148x17x17m depth and Pit-3: 197x18x13m depth.	Mine is not working since 11/01/2017 due to environment clearance, hence no comments.
1b	Exploration over lease area for geological axis 1 or 2	Geological axis 1	Existing pits reached a depth of 10 to 14m from surface.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee and RQP	Rs. 35000/-	No comments
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	Not applicable since the entire mining lease area has been covered and reached 10 to 14m from surface.	Nil.
1e	Balance reserve as on 01/04/20	a.ROM-0.238 million tonnes 60% recovery (111) b.ROM-0.345 million tonnes(222)	a.ROM-0.238 million tonnes 60% recovery (111) b.ROM-0.345 million tonnes(222)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Mine is not working since 11/01/2017 due to environment clearance, hence no comments.	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North-eastern side towards south-western side on existing pit measures (342x73x4mh)	Same as proposed.	No comments

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been formed on topsoil cum overburden /mineral.	Same as proposed.	No comments
2c	Stripping ratio or ore to OB ratio	1:0.3	Same as proposed.	No comments
2d	Quantity of topsoil generation in m3	12000 m3	Workings on existing pit hence no topsoil cum overburden.	Nil
2e	Quantity of overburden generation in m3	Overburden cum topsoil is about 12000 m3	Same as proposed	No comments.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	No comments North-eastern side towards south-western side on existing pit measures (342x73x4mh)	No comments.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	North-eastern side towards south-western side on existing pit measures (342x73x4mh)	Same as proposed.	Nil.
3b	Quantity of ROM mineral production proposed	4500 tones	Same as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	70%	Same as proposed.	No comments
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	Mineral rejects is 30% of ROM which includes rock fragments, impurities etc.	Nil.

3f	Quantity of sub grade mineral generation.	No sub-grade mineral.	Below 30% of CaCO ₃ with contaminations of calc gneiss waste are considered as mineral rejects in these particular formations	Nil.
3g	Grade of sub grade mineral generation	No sub-grade mineral.	The grade of mineral is uniform.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Cat"A" Other than fully mechanized mine.	Cat"A" Other than fully mechanized mine.	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.	Drilling & blasting in mineral are done by contract basis.	Nil.
3k	Provision of mining machineries in mineral benches	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.	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	2.63 ha	Same as proposed.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.12	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	3.57.2 ha	Same as proposed.	Nil.

3p	Production of ROM mineral during the last five year period as applicable	2012-13:26614 ts 2013-14:27269 2014-15;27425 2015-16; 28496 2016-17: 28995 ts.	2012-13:224 ts 2013-14:6107 2014-15;21276 2015-16; 17277 2016-17: 4500	Deviation in production is due to market flexibility.
3q	General remarks of inspecting officers on method of mining etc.	Proposal was adequate.	Mine is not working since 11/01/2017 due to environment clearance, hence no comments.	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.	As per proposal	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at North Eastern side of area.	As per proposal	Nil.
4c	Number of dumps within lease area and outside of lease area	Three dumps with in lease area. As proposed is maintained	As per proposal	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Along eastern side of 7.5m safety zone.	As per proposal	Nil.
4e	Number of active and alive dumps.	Three dumps	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.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Nil.	Nil.
4j	Number of settling ponds	Not applicable.	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 since 11/01/2017 due to environment clearance.
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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.	After complete extraction of Limestone, pits shall be used as water reservoirs	Limestone is yet to be exhaust	No comments.
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	Plantations	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.	As per proposal.	Mine is not working since 11/01/2017 due to environment clearance.

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).	Annual report on PMCP is to be submitted on time and correctly.	The annual report on PMCP is not submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Nil.
6b	Area available for rehabilitation (ha) .	0.35 ha	0.35 ha	Nil.

6c	afforestation done (ha).	0.01ha	0.01ha	Nil.
6d	No. of saplings planted during the year	20 nos	20 nos	Nil.
6e	Cumulative no .of plants	200 nos	60 nos	Due to water problem.
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	Mine is not working since 11/01/2017 due to environment clearance.	Nil

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.	Mine is not working since 11/01/2017 due to environment clearance.
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.	Mine is not working since 11/01/2017 due to environment clearance.	Nil.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil is removed & stored separately for plantation purpose.	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.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, there are 2 dumps. three separate dumps for overburden and waste.		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)	At present it is not applicable, since the mine is active.	Same as proposed.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the scheme period yearly 20 samplings of Neem plants to be planted on safety zone area with 70% survival rate.	Same as proposed.	Nil
8g	Survival rate	Space between samplings 3mx3m with 70% survival rate.	Same as proposed.	Nil.

8h	Water sprinkling on roads to control airborne dust	Not applicable.	Nil.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil.	Mine is not working since 11/01/2017 due to environment clearance.	No comments.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All monthly returns and annual returns are required to be submitted.	No monthly returns and annual returns were 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	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	JCB for loading & 10 ton tipper fir transporting are being used.	Same as proposed.	Mine is not working since 11/01/2017 due to environment 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
Rule 11(1)	25/09/2017	25/10/2017			
MCDR17 Rule 28(1)	25/09/2017	25/10/2017			
MCDR17 Rule 55(1)(3)	25/09/2017				

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines