

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/KRR/LST-34.MDS

Mine code : 38TMN28028

- (i) Name of the Inspecting : **A027**) **A.S.SANJEEVA RAO**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.Choudhary,Rep., of Lessee.
Official with
Designation
- (iv) Date of Inspection : 01/08/2017
- (v) Prev.inspection date : 09/08/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THENNILAI (2.995HA)**
- (b) **Registration NO.** : **IBM/4927/2011**
- (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 : dal_ref@satyam.net.in
- Phone : 0431-2791372
- (f) Police Station : Chintamamanipatti
- (g) First opening date : 18/06/1995
- (h) Weekly day of rest : SUN
2. Address for : THENNILAI VILL.
correspondance KULITHALAI TK.
KARUR DT.
3. (a) Lease Number : TMN1092
- (b) Lease area : 3.15
- (c) Period of lease : 20
- (d) Date of Expiry : 16/06/2015
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : E.DHANAPAL
 D/364, FIRST CROSS ANNA
 NAGAR, THENNUR TRICHY
 TIRUCHIRAPALLI TAMIL NADU
 Phone:
 FAX :

Owner : E.DHANAPAL
 D/364, UKKALIAMMAN KOIL
 STREET ANNA NAGAR TRICHY
 TIRUCHIRAPALLI TAMIL NADU
 Phone:
 FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	20/04/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04/05/2012
		Renewal under rule 24 MCR1960	16/09/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 bore holes	6 no of bore holes for depth of 54m.	Advised the rep of lessee to submit the form-J.
1b	Exploration over lease area for geological axis 1 or 2	Axis-1	Axis-1	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Details sought from lessee.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2		About 0.6hect	Depth persistence of exisiting pits.
1e	Balance reserve as on 01/04/20	80026tonnes(R OM) &48015tonnes of recoverable limestone.	43755tonnes of revoverable mineral.	Due to exess production during in previous year.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2c	Stripping ratio or ore to OB ratio	1:0.40	As proposed.	
2d	Quantity of topsoil generation in m3	NIL	NIL	-
2e	Quantity of overburden generation in m3	NIL	NIL	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of existing pit located on southern side of ML,production in central part of the pit .

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit .	Main pit measuring about 200mx70mx10-12m depth(RL156 to RL148)on southern side of ML.	
3b	Quantity of ROM mineral production proposed	20218tonnes	About 27961tonnes	
3c	Recovery of sailable/usable mineral from ROM production	12131tonnes	19961tonnes	Violation of rule 11(2)MCDR-2017 has been sent to the lessee on 5.9.2017
3d	Quantity of mineral reject generation	8087tonnes.	About 11000tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	NIL.	Not applicable.	-
3f	Quantity of sub grade mineral generation.	NIL.	Not applicable.	
3g	Grade of sub grade mineral generation	NIL.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method.	As proposed.Excavators are deployed for making benches and loading of mineral and waste in trucks.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Not applicable.	
3j	Provision of drilling and blasting in mineral benches	Drilling by using Jack hammer by compressed air from Tractor .Safety fuses and ordinary /plain electric detonators for blasting.	As proposed.One benc in OB about 1-1.5 m height and in mineral the bench height is 4m to 5m height and width is 6m.	Mine is not working.

3k	Provision of mining machineries in mineral benches	Mechanised and Manual means.	As proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Bench width is maintained more than the height of the bench.	-
3m	Total area covered under excavation/pits	1.68.5hect	As proposed.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40	As proposed.	Ore to waste ratio. -
3o	Total area put in use under different heads at the end of year	1.68.5hect.	As proposed	1.68.5hect
3p	Production of ROM mineral during the last five year period as applicable	Year- tonnes 2013-14:- 4627tonnes 2014- 15:4212tonnes 2015- 1613170tonnes 2016-17: 12131tonnes	Year- qty in 2013-14: 5119tonnes 2014-15: '- tonnes 2015-16-6645 tonnes 2016-17:19981tonnes	Violation of rule 11(2)MCDR-2017 has been sent to the lessee on 5.9.2017.How ever mine is not in operation for want of EC.
3q	General remarks of inspecting officers on method of mining etc.			For excess production in the year 2016-17, Violation of rule 11(2)MCDR-2017 has been sent to the lessee on 5.9.2017. How ever mine is not in operation for want of EC.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps for soil and OB.	As proposed.	-
4b	Location of topsoil, OB and mineral reject dumps	One on the northern side&one on western boundary of ML.	As proposed.Dumps about 12mx11mx5m depth & 10mx12mx4-5m height.	-
4c	Number of dumps within lease area and outside of lease area	One on the northern side of ML &western boundary of ML partly on outside ML.	As proposed .	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One on the northern side&one on western boundary of ML.	As proposed on non mineral bearing area .	
4e	Number of active and alive dumps.	Two nos.	As proposed.	-
4f	Number of dead dumps.	Nil.	Nil.	
4g	Number of dumps established.	Nil.	Nil.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	NIL.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil.	
4j	Number of settling ponds	Nil.	Nil.	
4k	Specific comments of inspecting officer on waste dump management		Waste has been dumped at the place earmarked for it on non mineral bearing area.	-

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.	No backfilling proposal during the document period.	Not reached for backfilling stage.	-
5b	Area under backfilling of mined out area	No proposal.	NIL.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil.	Nil.	-
5d	Total area fully reclaimed and rehabilitated	No proposal.	NIL.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine is not working.	

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 received.	Violation of rule 26(2) of MCDR-2017 has been communicated to lessee.	
6b	Area available for rehabilitation (ha) .	Nil.	Nil.	-
6c	afforestation done (ha).	250sq meter.	As proposed.	-
6d	No. of saplings planted during the year	20nos.	About 12nos.	-
6e	Cumulative no .of plants		About 50nos.	-
6f	Any other method of rehabilitation	Nil.	Nil.	
6g	Cost incurred on watch and care during the year	NIL.	NIL.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Nil.	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	Nil.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Nil.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil.	Mine is not working
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Small mine and not in operation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	At mine site	All grades are being recovered .	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	All grades are being recovered .	-
7c	Different grade of mineral sorted out at mines.	At mie site.	All grades are being recovered .	
7d	Any beneficiation process at mines .	No proposal.	NIL.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No grade problem.All grades are being utelised.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)		Being stacked separtely.	Thin cover of top soil is available.

8b	Concurrent use or storage of topsoil	For afforestation.	As proposed.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	As proposed.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-	Being stacked separately.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	No proposal during the document period.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	About 50 nos.	
8g	Survival rate	60%	About 40%	
8h	Water sprinkling on roads to control airborne dust		Mine is not working.	Mine is not working.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation observed on the boundary of ML.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Being submitted regularly.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Advised to furnish the mining engineer/geologist details.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished under item 12 of AR. Advised to furnish details as per approved MP.	
9d	Scrutiny of Annual return on afforestation	Advised to furnish details under item 4.4 of AR.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Advised to furnish details under item 4.2(B)(ii).	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished under item 4.2(B)(ii).	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details furnished under part-Ivof sl no.2 has been Verified .	
9h	Scrutiny of Annual return on fixed assets	Nil.	There are no establishments at mine site. Therefore, advised to furnish the corrected information.

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 11(2)	05/09/2017	07/11/2017				
MCDR17	Rule 26(2)	05/09/2017	07/11/2017				
MCDR17	Rule 27(2)	05/09/2017	07/11/2017				

Date :

(A.S.SANJEEVA RAO)

Indian Bureau of Mines