

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/PBRLST-56.MDS

Mine code : 38TMN24056

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. RAVI, GEOLOGIST, Mr. AJMAL-MINES MANAGER RAMCO
Official with
Designation
- (iv) Date of Inspection : 19-AUG-17
- (v) Prev.inspection date : 17-NOV-12

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : MANAKUDIYAN MINE(GO.76)
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 04329-248303
- E-mail : minesalr@madrascements.co.:
- Phone : 04329-248305, 248306
- (f) **Police Station** : SENDURAI
- (g) **First opening date** : 30-DEC-08
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : AURAS CORPORATE CENTRE,
5 TH FLOOR,98-A,DR RADHA KRISHNAN ROAD,
MYLAPORE,CHENNAI-600004
3. (a) **Lease Number** : TMN1045
- (b) **Lease area** : 44.8
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 23-NOV-28
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : MADRAS CEMENTS LIMITED
 Auras Corporate Center Vth
 Floor, 98 A Dr.Radha
 Krishnan salai, Mylapore
 CHENNAI CITY TAMIL NADU
 Phone:044-28478666
 FAX :044-28478676

Owner : P.R.RAMA SUBRAMANYA RAJA
 AURAS CORPORATE CENTRE
 VFLOOR,98A,RADAKRISHNAN R
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone: 044-8555815
 FAX : 044-830248

Agent : S SHANMUGAM
 Madras Cements Ltd, TALUKA-
 Sendurai ARIYALUR TAMIL
 NADU
 Phone: 04329-248305248306
 FAX : 04329-248303

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06-JUN-13
		Modif.approved Mining Scheme	09-JUL-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	EXPLORATION COMPLETED
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Exploration completed for proved reserves
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	13,03,900	Due to quality and existance of Limestone variation in the mine, They have drilled addional holes at 100 meter interval. Form-J Submitted on 26.08.2016
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	-	89,56,257 MT	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 2 - 6	ML 2 - 6 SOUTH SIDE	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES MANTIANED AS PROPOSED	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0.93	1:0	NIL
2d	Quantity of topsoil generation in m3	98,787	-	-

2e	Quantity of overburden generation in m3		1,52,628	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	SATISFACTORY, TOPSOIL REMOVED AND ONLY PRODUCTION IS GOING ON.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	NIL
3b	Quantity of ROM mineral production proposed	9,98,205	67,152	LESS DUE TO CTO PROBLEM
3c	Recovery of sailable/usable mineral from ROM production	9,98,205	67,152	LESS DUE TO CTO PROBLEM
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	MECHANISED	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO	NIL	NIL

3j	Provision of drilling and blasting in mineral benches	NO	NIL	NIL
3k	Provision of mining machineries in mineral benches	YES	Yes surface miner, dumper, dozer, shovel, WT	DEPLOYED AS PER PLAN
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	NIL
3m	Total area covered under excavation/pits	14.725	14.725	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.93	1:0	NIL
3o	Total area put in use under different heads at the end of year	MINING=14.725 ROADS=0.50 GREEN BELT=1.05	MINING=14.725 ROADS=0.50 GREEN BELT=1.05	NIL
3p	Production of ROM mineral during the last five year period as applicable	2016-17 9,98,205 2015-16 9,98,371 2014-15 6,34,000 2013-14 6,50,000 2012-13 1,05,000	2016-17 67,152 2015-16 1,04,605 2014-15 98,901 2013-14 93,878 2012-13 38,006	WITHIN LIMIT, They have obtained EC for 10 lakhs tons and applied for CTE & CTO to TNPCB. Hence the targeted production has not been achieved.
3q	General remarks of inspecting officers on method of mining etc.	-	-	SATISFACTORY

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES	YES	Separately stacked

4b	Location of topsoil, OB and mineral reject dumps	400 - 700	400 - 700	Location in terms of grid as per proposal.
4c	Number of dumps within lease area and outside of lease area	1	1	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RL - 63	NIL	AS PROPOSED
4e	Number of active and alive dumps.	1	1,OB dump rehandling on progress	OB dump rehandling on progress
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.	YES	200 x 2 x 2.5	GARLAND DRAIN IS MADE
4i	Length of Retaining wall or garland drain all along dumps	YES	200 x 2 x 2.5 GARLAND DRAIN IS MADE	NIL
4j	Number of settling ponds	1	1	AS PROPOSED
4k	Specific comments of inspecting officer on waste dump management	-	-	SATISFACTORY

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.	YES	YES	BACK FILLING WILL START AFTER FULL EXTRACTION OF MINERAL
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)	NO	AFTER EXTRACTION OF MINERAL	TOPSOIL IS STORED
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	SATISFACTORY

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).	YES	YES	SUBMITTED
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.25	0.25	NIL
6d	No. of saplings planted during the year	500	500	NIL
6e	Cumulative no .of plants	-	15800	NIL
6f	Any other method of rehabilitation	NO	NIL	NIL
6g	Cost incurred on watch and care during the year	37,500	37,500	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	NIL, NO BACK FILLING AT PRESENT

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	NO WASTE LAND, NIL 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)	YES	COMPLIED AS PROPOSED	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	9,98,205	67,152	AS PROPOSED WITHIN LIMIT
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines	NO	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	YES	Top soil is separately removed
8b	Concurrent use or storage of topsoil	YES	YES	NIL, Both are practiced

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	OB is being used for reclamation of mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES, Reclamation is being practiced in a phased manner	Reclamation is being practiced in a phased manner
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	15300	500 THIS YEAR	NIL
8g	Survival rate	-	80%	-
8h	Water sprinkling on roads to control airborne dust	YES	YES	WATER SPRINKLING DONE
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES	YES ,Submitted in time	Submitted in time

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	as per Rule appointed	as per Rule appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	-	NIL
9d	Scrutiny of Annual return on afforestation	GIVEN	AS PROPOSED	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	NO STOCK	NO STOCK	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NA	CAPTIVE MINE COST OF PRODUCTION GIVEN	NIL
9h	Scrutiny of Annual return on fixed assets	GIVEN	DEPLOYED AS GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN	DEPLOYED AS GIVEN	NIL

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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines