

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PBR/LST-49.MDS

Mine code : 38TMN24041

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR RAVI MANAGER(GEOLOGY)
Official with
Designation
- (iv) Date of Inspection : 24-JUN-19
- (v) Prev.inspection date : 09-OCT-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : MANAKUDAYAN(14.685HA)
- (b) **Registration NO.** : IBM/638/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 044-28478676
- E-mail :
- Phone : 044-28478666
- (f) **Police Station** :
- (g) **First opening date** : 09-DEC-04
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : AURAS CORPORATE CENTRE, V FLOOR
98-A, RADHAKRISHNAN ROAD
MYLAPORE CHENNAI- 4
3. (a) **Lease Number** : TMN0935
- (b) **Lease area** : 14.69
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 18-OCT-24
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

Mining Engineer

Name : M.SURESH BABU,Full Time
 Qualification : B.E Mining Engineeing
 Appointment/ : 01-JAN-12
 Termination date

Geologist

Name : J.RAVI,Full Time
 Qualification : M.Sc Geology
 Appointment/ : 16-MAR-07
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	06-JAN-99
Plan/Scheme of Mining		Modif.of approved Mining Plan	12-AUG-05
		Mining Scheme rule 12 MCDR1988	28-AUG-09
		Mining Scheme rule 12 MCDR1988	22-APR-14
		MP review under 17(1) MCR 2016	05-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Exploration completed for whole area
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	NA	NA	Not required.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Not required as all areas are explored G1 category
1e	Balance reserve as on 01/04/20	Nil	250,000	Not applicable
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	NA

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	nil	NIL	As per proposal, NO DEVELOPMENT AS MINING IS CARRIED OUT FOR TAKING BALANCE ORE.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL- ALREADY FORMED BENCHES TS-1 OB-2 ORE-3	TS-1 OB-2 ORE-3 NO DEVELOPMENT IN CURRENT YEAR MINING ONLY ORE.	Formed as per rule
2c	Stripping ratio or ore to OB ratio	01:00.4	01:00.0	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	As per proposal

2e	Quantity of overburden generation in m3	NIL	NIL	As per proposal
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	As per proposal
3b	Quantity of ROM mineral production proposed	29,400	26084	As per proposal
3c	Recovery of sailable/usable mineral from ROM production	29,400	26084	As per proposal
3d	Quantity of mineral reject generation	nil	Nil	Not Required
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Not Required
3f	Quantity of sub grade mineral generation.	Nil	Nil	Not Required
3g	Grade of sub grade mineral generation	Not Required	Not Required	Not Required
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Not Required
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Not Required

3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Not Required
3k	Provision of mining machineries in mineral benches	NIL	Shovel (Hydraulic)-1,	Surface Minor operation is in practice for production.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 5m, Width - 8m one in Ts two in OB three in ore	Height - 5m, Width - 8m one in Ts two in OB three in ore	Benches suitable for the method of mining & are maintained
3m	Total area covered under excavation/pits	7.2	7.2	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	01:00.4	01:00.0	As per proposal
3o	Total area put in use under different heads at the end of year	Minedout land - 7.20, Reclaimed - 1.90, Used of Waste Disposal- 0.910, Road & Infra - 0.3 Ha, Greenbelt - 3.40 Ha	Minedout land - 7.20, Reclaimed - 1.90, Used of Waste Disposal- 0.910, Road & Infra - 0.3 Ha, Greenbelt - 3.40 Ha	As per proposal.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 29,400 2015-16 29,400 2016-17 29,400 2017-18 29,400 2018-19 29,400	2014-15 9,448 2015-16 12,315 2016-17 5,966 2017-18 16,765 2018-19 26,084	Within the proposed limit.
3q	General remarks of inspecting officers on method of mining etc.	Nil	Nil	Satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Topsoil are dumped separately	Topsoil are dumped separately	NIL

4b	Location of topsoil, OB and mineral reject dumps	Topsoil ML 3 - 5 Grid A to -A	Topsoil ML 3 - 5 Grid A to -A	NIL
4c	Number of dumps within lease area and outside of lease area	1	1	Lease Area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	NIL
4e	Number of active and alive dumps.	NIL	NIL	No alive dumps are there. All old dumps are stabilized.
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	1	1	Old dumps are stabilized.
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	NIL	420 x 2 x 1.5	NIL
4j	Number of settling ponds	1	1	Existing settling pond de silted.
4k	Specific comments of inspecting officer on waste dump management	NA	NA	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.	All minerals are mined & taken before starting of Backfilling	All minerals are mined & taken before starting of Backfilling	Full extraction is adopted

5b	Area under backfilling of mined out area	NIL	NIL, AS THE MINERAL IS NOT EXHAUSTED	As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL, NO TOPSOIL IS REMOVED	As per proposal
5d	Total area fully reclaimed and rehabilitated	NIL	NIL. NO AREA IS COMPLETELY BACKFILLED AS BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.	As per proposal, BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	Satisfactory. As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	Submitted in IBM website in time.
6b	Area available for rehabilitation (ha) .	NA	NA	NIL
6c	afforestation done (ha).	0.2	0.25	Afforestation well in control & carried out.
6d	No. of saplings planted during the year	300	400	Plantation carried out
6e	Cumulative no .of plants	13205	13605	For entire mine area

6f	Any other method of rehabilitation	NIL	NIL	Not applicable.
6g	Cost incurred on watch and care during the year	990375	1,020,375	As per proposal.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.	BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NO BACKFILLED AREA AVAILABLE	As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	After mining is completed will be making water reservoir.	After mining is completed will be making water reservoir.	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL	As per proposal BACKFILLING WILL START ONLY AFTER COMPLETE MINERAL EXPLOITATION. AFTER COMPLETE MINERAL EXPLOITATION THE AREA WILL BE LEFT FOR WATER HARVESTING.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not applicable	Not applicable	Land does not belong to lessee

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	All the monitored values are with in limit. Quarterly Reports submitted to IBM regularly.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	NO GRADE WISE SORTING IS DONE INSIDE THE MINE.	NO GRADE WISE SORTING IS DONE INSIDE THE MINE.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL MINING	MECHANICAL MINING HOWEVER,NO GRADE WISE SORTING IS DONE INSIDE THE MINE.	NO GRADE WISE SORTING IS DONE INSIDE THE MINE.
7c	Different grade of mineral sorted out at mines.	Nil	NOT APPLICABLE	NO GRADE WISE SORTING IS DONE INSIDE THE MINE.
7d	Any beneficiation process at mines .	NO BENIFICATION IS DONE	NO GRADE WISE SORTING IS DONE INSIDE THE MINE.HOWEVER BENIFICATION IS DONE AT PLANT BY SCREENING.	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	Satisfactory.
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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	NO TOP SOIL IS GENERATED	Both are practiced BUT CURRENTLY NO TOP SOIL IS GENERATED BECAUSE MINING IS CARRIED OUT ONLY IN EXPLOSED BENCHES.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only backfilling is done	Only backfilling is done	As per proposal.
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
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	13205	13605	Nil

8g	Survival rate	-	95%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling is being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil	Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted for the year 2018-19	Submitted for the year 2018-19	Submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed	Appointed as per rule	As per rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	Given in Part - i. Sl no.12	As per rule.
9d	Scrutiny of Annual return on afforestation	Provided in Annual Return	Given in Part - V. Sl no.4.4	As per rule.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No rejected.	Given in Part - V. Sl no.4.2	As per rule.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mentioned.	Given in Part - VI. Sl no.1	As per rule.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Provided in Annual Return RS 324.08	Given in Part - VI. Sl no.5 RS 324.08 PER TONNES	As per rule., CAPTIVE MINE NO SALE.
9h	Scrutiny of Annual return on fixed assets	Provided in Annual return.	Given in Part - IIA. Sl no.1	As per rule.

9k	Scrutiny of Annual return on mining machineries	Given in completed statement	Given in Part - V Sec- V	As per rule.
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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 22(1)	16-JUL-19				

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines