

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-7/MDS

Mine code : 38TMN38010

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : LAXMI NARAYAN-MINESMANAGER, TAMILSELVEM-GEOLOGIST
Official with
Designation
- (iv) Date of Inspection : 12-JUL-18
- (v) Prev.inspection date : 06-NOV-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PUDUPALAYAM(NORTH)
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village : PUDUPALAYAM
- Taluka : ARIYALUR
- Post office : PUDUPALAYAM
- Pin Code :
- FAX No. : 04329-226005
- E-mail : Yadav_m@madrascements.co.in
- Phone : 04329-294400
- (f) **Police Station** : ARIYALUR
- (g) **First opening date** : 24-MAR-09
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : MADEO YADAV. VICE PRESIDENT(Mfg)
MADRAS CEMENTS LIMITED,
Govindrajapuram, Sendurai Road, Ariyalur-621713
3. (a) **Lease Number** : TMN1030
- (b) **Lease area** : 10.65
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 15-JUN-15
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 : MADEO YADAV
 VICE PRESIDENT(Mfg) MADRAS
 CEMENTS LTD, GOVINDAPURAM
 WORKS, SENDURAI ROAD,
 ARIYALUR TAMIL NADU
 Phone: 04329-226001
 FAX : 04329-226005

6. Date of approval of Mining : Fresh under rule 22 MCR1960 07-AUG-06
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 24-OCT-16

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	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
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	-	4.81 MILLION TONNES	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	SOUTH EASTERN SIDE RL56 TO 40	SOUTH EASTERN SIDE RL56 TO 40	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPERATE BANCHES AS PER RULE 15	SEPERATE BANCHES AS PER RULE 15	NIL
2c	Stripping ratio or ore to OB ratio	1:0.37	1:0.90	NIL
2d	Quantity of topsoil generation in m3	33751	130049	NIL
2e	Quantity of overburden generation in m3	317903	716936	NIL, OB DUMP IS BEING REMOVED

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	1499400 MT	937132.59 MT	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 % of mineral recovered	nil
3d	Quantity of mineral reject generation	NA	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NIL
3k	Provision of mining machineries in mineral benches	YES	RIPPER DOZER, LOADER, SHOVEL-2 DUMPERS=9 WATER TANKERS-1 DRILL AND COMPRESSOR	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES AR PER RULE	NOT MAINTAINED IN SOUTHERN SIDE OF THE PIT	VIOLATION POINTED OUT.
3m	Total area covered under excavation/pits	13.89 HA	13.89 HA	NIL

3n	Ore to OB ratio for the pit/mine during the year.	1:0.37	1:0.90	NIL
3o	Total area put in use under different heads at the end of year	AREA UNDER MINING=11.50 STORAGE OF TOPSOIL=1.70 MINERAL STORAGE=NIL OB DUMP=4.72.5HA INFRASTRUCTURE =0.20 ROADS=0.85 GREEN BELT=2.00 OTHERS=5.10	AREA UNDER MINING=13.89 STORAGE OF TOPSOIL=0.80 MINERAL STORAGE=NIL OB DUMP=2.51HA INFRASTRUCTURE=0.20 ROADS=0.70 GREEN BELT=2.20.5 OTHERS=5.77 OTHERS=5.10	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14=1508000 2014-15=727200 2015-16=696780 2016-17=1494486 2017-18=1499400	2013-14=489640 2014-15=559580 2015-16=665997 2016-17=1339916 2017-18=937133	NIL
3q	General remarks of inspecting officers on method of mining etc.	-	-	NIL

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	THE PROPOSAL IS FOR DUMPING OF OB DIRECTLY INSTEAD OF DUMPING	THE OB FROM SOUTH SIDE IS BACKFILLED IN THE EASTERN SIDE BETWEEN DD' AND FF'	NIL
4b	Location of topsoil, OB and mineral reject dumps	NIL	TOPSOIL DUMP LOCATED IN SOUTHWESTERN SIDE AND OB DUMP IS LOCATED IN SOUTHERN SIDE OF THE LEASE	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	SOUTH AND SOUTHWEST SIDE	SOUTH AND SOUTHWEST SIDE	NIL
4e	Number of active and alive dumps.	2	2	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.	GARLAND DRAIN AROUND THE PERIPHERY OF DUMP	MAINTAINED AS PROPOSED	NIL
4i	Length of Retaining wall or garland drain all along dumps	LENGTH OF GARLAND DRAIN=1100X3X2 M3	1100 LONG GARLAND DRAIN.	NIL
4j	Number of settling ponds	2NOS	2 NOS	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	NIL

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.	MINERAL PROPOSED TO THE EXCAVATED IN WESTERN SIDE FIRST	MINERAL EXCAVATED IN WESTERN SIDE FIRST	AS PROPOSED
5b	Area under backfilling of mined out area	1.28 HA	2.79 HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	TOP SOIL IS BEING USED FOR GREEN BELT DEVELOPMENT	TOP SOIL IS BEING USED FOR GREEN BELT DEVELOPMENT AS PER PROPOSAL	NIL
5d	Total area fully reclaimed and rehabilitated	EASTERN SIDE OF THE LEASE	AS PROPOSED	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	SATISFACTORY

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).	PROPOSED	NOT SUBMITTED	VIOLATION ISSUED
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6f	Any other method of rehabilitation	NA	NA	NIL
6g	Cost incurred on watch and care during the year	NIL	2.2LAKHS	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.28HA	2.79 HA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	2000 NOS	2000NOS	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	MONITORED QUARTERLY	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1499400MT	937132.59 MT	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	NIL
7c	Different grade of mineral sorted out at mines.	NA	NA	NIL

7d	Any beneficiation process at mines	NA	NA	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)	PROPOSE TO BE USE FOR GREEN BELT DEVELOPMENT	USE FOR GREEN BELT DEVELOPMENT	NIL
8b	Concurrent use or storage of topsoil	SEPERATE OVERBURDEN DUMPS IS PROPOSED.	SEPERATE OVERBURDEN DUMPS AS PROPOSED IS MANINTAIN	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES BACKFILLED	BACKFILLED	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES AS PROPOSED	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	RESTORATION PLANNED IN PHASED MANNER	AS PER PLAN RESTORATION WORK IS GOING ON.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 NOS	2000 NOS	NIL

8g	Survival rate	90 %	90%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WATER TANKER IS USED	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED	SUBMITTED IN TIME	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	PROVIDED	PRESENT AT MINES	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	PROVIDED	AS GIVEN	NIL
9d	Scrutiny of Annual return on afforestation	GIVEN IN A.R	AS PROVIDED	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	A	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	GIVEN	AS GIVEN	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	PROVIDED	ONLY ROYALTY FIGURE IN NOT MATCHING WITH PRODUCTION.	VIOLATION ISSUED
9h	Scrutiny of Annual return on fixed assets	GIVEN	AS GIVEN	NIL

9k	Scrutiny of Annual return on mining machineries	GIVEN	FOUND AS PROVIDED	NIL
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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

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines