

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/VOC/LST-7.MDS

Mine code : 38TMN15045

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr. Venkatarama subrmanian. AGM(Geology)
Official with
Designation
- (iv) Date of Inspection : 06/06/2018
- (v) Prev.inspection date : 15/07/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SIVALARPATTI**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : THOOTHUKUDI (TUTICORIN)
Village : SIVALARPATTI
Taluka : VILATHIKULAM
Post office : PUDUR
Pin Code :
FAX No. : 04562-256268
E-mail : adminrn@madrascements.co.in
Phone : 04562-256201, 201 & 203
- (f) Police Station :
- (g) First opening date : 01/06/1995
- (h) Weekly day of rest : SUN
2. Address for : SIVALARPATTI LST MINE
correspondance PUDUR POST
VIRUDUNAGAR
3. (a) Lease Number : TMN1203
(b) Lease area : 150.11
(c) Period of lease : 20
(d) Date of Expiry : 21/05/2015
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.Venketrama Raja
 Ramasamiraja
 Nagar, Virudhnagar, Chennai-
 626204 VIRUDHUNAGAR TAMIL
 NADU
 Phone: 04562 256201 -
 FAX : 04562 256268

Agent : S.Ramalingam
 Ramasamiraja Nagar,
 Virudhnagar Pin:626204
 VIRUDHUNAGAR TAMIL NADU
 Phone: 04562 256201 - 203
 FAX : 04562 256268

Mining Engineer

Name : M.D.Massom Basha, Full Time
 Qualification : B.E(Mining)
 Appointment/ : 09/09/2012
 Termination date

Geologist

Name : L.Venkatarama Subramanian, Full Time
 Qualification :
 Appointment/ : 31/07/2013
 Termination date

Manager

Name : K. Nagendran
 Qualification :
 Appointment/ : 17/03/2007
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22/01/2003
Plan/Scheme of Mining		Modif.approved Mining Scheme	05/08/2004
		Mining Scheme rule 12 MCDR1988	31/01/2007
		Mining Scheme rule 12 MCDR1988	29/11/2011
		Modif.approved Mining Scheme	28/02/2014
		MP modif under MCR 1960	02/07/2015
		MP modif under MCR 1960	16/12/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	66.32 Ha	66.32 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration not proposed	As per the proposal	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	6.76 Mil.Tons	6.76 Mil.Tons	
1f	General remarks of inspecting officers on geology, exploration etc	--	The geology, exploration of the mine is found be good.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML - 31 to 37 & ML - 8 to 12.5	ML - 31 to 37 & ML - 8 to 12.5	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	as per the proposal	
2c	Stripping ratio or ore to OB ratio	1 : 2.24	1 : 2.10	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	538616	506641	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development of pit is systematiclally as per the proposal
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3c	Recovery of sailable/usable mineral from ROM production	90%	97%	
3d	Quantity of mineral reject generation	69000	20693	
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m	9 m
3m	Total area covered under excavation/pits	48.70 Ha	48.70 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:2.20	1:2.20
3o	Total area put in use under different heads at the end of year	76.74 Ha	76.74 Ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14=5,15,000 2014-15=5,19,075 2015-16=6,89,763 2016-17=6,89,999 2017-18=6,89,997 (ML - 31 to 37 & ML - 8 to 12.5 Above 22 RL & 0 RL)	2013-14=5,18,267 2014-15=4,14,501 2015-16=6,54,931 2016-17=6,89,866 2017-18=6,89,750 (ML - 31 to 37 & ML - 8 to 12.5 Above 22 RL & 0 RL)
3q	General remarks of inspecting officers on method of mining etc.	--	The method of mining is found good

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Existing Dump to be used	Complied as per the Proposal	
4b	Location of topsoil, OB and mineral reject dumps	OB Dump ML-25 to ML-30	OB Dump ML-25 to ML-30	

4c	Number of dumps within lease area and outside of lease area	Inside ML-5 Nos Outside ML-5 Nos	Inside ML-5 Nos Outside ML-5 Nos
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	Yes
4e	Number of active and alive dumps.	3	3
4f	Number of dead dumps.	7	7
4g	Number of dumps established.	7	7
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	As per Proposal
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	2 No	2 No
4k	Specific comments of inspecting officer on waste dump management	--	waste dump management is found 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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	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	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	--	Backfilling, reclamation is found 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).	Periodically Submitted	Periodically Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
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	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	600 Nos	4000 Nos
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Periodically Monitored	Periodically Monitored by M/s Creative Engineers & Consultants Chennai
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	--	PMCP compliance & progressive closure operations IS FOUND SATISFACTORY
6p	Compliance of environmental monitoring (core zone and buffer zone)		
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	Mineral conservation & beneficiation is found good

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump Provided	OB Dump Provided	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 Nos	4000 Nos
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	10 KL Water Tanker	As per Proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	aesthetic beauty in and around mines area is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Details in A.R.	Field observation	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per filed Annual Return	Shri.K.Saravanan (Manager Mines), Shri.L.Venkatarama Subramanian (Geologist) & Shri.S.Masoom Basha (Mining Engineer)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	
9d	Scrutiny of Annual return on afforestation	3.0 Ha (4000 Nos)	3.0 Ha (4000 Nos)	Neem, Pungai & Vagai

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	417.11	417.11
9h	Scrutiny of Annual return on fixed assets	32815000	As per filed Annual Return
9k	Scrutiny of Annual return on mining machineries	Provided	As per filed Annual Return

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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines