INDIAN BUREAU OF MINES MINERALS DEVELOPMENT 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 Officer and ID No.	g :	T003) S.THIRUNAVUKKARA	SU			
	(ii)	Designation	:	Senior Mining Geologist				
	(iii)	Accompaning mine Official with Designation	:	Mr. Venkatarama subrmania	n. AGM(Geology)	&Mr.K.Saravan		
	(iv)	Date of Inspection	:	27/08/2019				
	(v)	Prev.inspection date	:	01/03/2019				
	PART-I : GENERAL INFORMATION							
1.	(a)	Mine Name	:	SIVALARPATTI				
	(b)	Registration NO.	:	IBM/638/2011				
	(c) (d) (e) (f) (g) (h)			THOOTHUKUDI (TUTICORIN) SIVALARPATTI VILATHIKULAM PUDUR 04562-256268	.iı			
2.		ess for espondance	:	SIVALARPATTI LST MINE PUDUR POST VIRUDUNAGAR				
3.	(a) (b) (c) (d)		:	TMN1203 150.11 20 21/05/2015				
4.	Mine	ral worked	:	LIMESTONE Ma	in			

02/07/2015 16/12/2016

5.	Name and Address of t	he		
	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	
	Agene		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/ Termination dat		09/09/2012	
	Geologist			
	Name	:	L.Venkatarama Subramanian,Full Time	
	Qualification	:	M.Sc Geology	
	Appointment/ Termination dat		31/07/2013	
	Manager			
	Name	:	K. Nagendran	
	Qualification	:	BE.MINING	
	Appointment/ Termination dat	: e	17/03/2007	
6.	Date of approval of M Plan/Scheme of Mining		ng : Fresh under rule 22 MCR1960 Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme MP modif under MCR 1960	23/09/1989 22/01/2003 05/08/2004 31/01/2007 29/11/2011 28/02/2014 02/07/2015

MP modif under MCR 1960 MP modif under MCR 1960

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	NA	fully explored upto G1 Level
1b	Exploration over lease area for geological axis 1 or 2		66.32 Ha	fully explored upto G1 Level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	ML Area explored by TRCL & GIEM
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Exploration is being carried out for proving of Limestone at Bottom level
1e	Balance reserve as on 01/04/20	6.07 Mil.Tons	6.07 Mil.Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc			Geology, exploration is found satisfactory

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	37 &	ML - 26.4 to 37 & ML-10.8 to 12.6	As per the Proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	As per the Proposal	Separate benches are maintained in OB and Mineral
2c	Stripping ratio or ore to OB ratio	1 : 2.09	1 : 2.05	Almost nearer to the proposal
2d	Quantity of topsoil generation in m3	NIL	NA	No topsoil generation
2e	Quantity of overburden generation in m3	527617	494579	Almost comensurating as per proposal

2f General remarks ---- ---of inspecting officers on development of pit w.r.t. type of deposit etc development of pit is found satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos	2 (Pit 1A & 2)	As per the Proposal
3b	Quantity of ROM mineral production proposed	689998	688805	Within limte
3с	Recovery of sailable/usable mineral from ROM production	90 %	90 %	
3d	Quantity of mineral reject generation	NIL	NIL	ROM Limestone transported to Common Crushing Plant. No beneficiation activities involved within M
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No subgrade mineral generation.
3g	Grade of sub grade mineral generation	NIL	NA	No subgrade mineral generation.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized methods proposed	Mechanized methods of mineral segregation/ beneficiation techniques adopted at crushing plant situated outside ML	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	NIL

3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting is proposed and blasting with delay detonators and high explosives	Deep hole drilling and blasting is proposed and blasting with delay detonators and high explosives	As per proposal
3k	Provision of mining machineries in mineral benches	Proposed	drilling & blasting in the working benches	nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m height benches proposed both in Ore and OB.	9 m height benches proposed both in Ore and OB.	Bench height and width suitable for mechanized method and machinery deployed
3m	Total area covered under excavation/pits	48.70 На	48.70 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:2.09	1:2.05	Nearer to the proposal
30	Total area put in use under different heads at the end of year	64.41 Ha	64.41 Ha	NIL
3р	Production of ROM mineral during the last five year period as applicable	2014- 15=5,19,075 2015- 16=6,89,763 2016- 17=6,89,999 2017- 18=6,89,997 2018- 19=6,89,998	2014-15=4,14,501 2015-16=6,54,931 2016-17=6,89,866 2017-18=6,89,750 2018-19=6,88,805	within the limite
Зq	General remarks of inspecting officers on method of mining etc.			method of mining found satisfactory
	Solid Waste Manage	ment - Dumping:		

Sl.No. Item Propasals Actual work Remarks

4a	Concrete dumping	nwonogod in	Dumping gownied out	Nil
ta	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Existing Dump	Dumping carried out separately on existing dump.	
4b	Location of topsoil, OB and mineral reject dumps	OB Dump ML- 25.5 to ML- 34.5	OB Dump ML-25.5 to ML- 34.5	As per the ProposalAs per the Proposal
4c	Number of dumps within lease area and outside of lease area	Inside ML-4 Nos Outside ML-5 Nos	Inside ML-4 Nos Outside ML-5 Nos	No Changes
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	Yes within Ultimate Pit Limit	Yes. Maintained
4e	Number of active and alive dumps.	2 Nos	2 Nos	NIL
4f	Number of dead dumps.	3	3	
4g	Number of dumps established.	Тwo	Тwo	Yes stabilized, also under Progress
4h	Whether Retaining wall or garland drain all along dumps are there.	415 x 1 x 1	415 x 1 x 1	Inactive Sides of the Dump area covered by Garland Drain. 1 - 1900 m x 1m x 1m & 2 - 798 m x 1 m x 1 m
4i	Length of Retaining wall or garland drain all along dumps	NIL	Not Applicable	NIL
4j	Number of settling ponds	2 Nos	2 Nos	
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	Not Applicable	not at the satage
5b	Area under backfilling of mined out area	NIL	Not Applicable	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	Not Applicable	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	Not Applicable	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling, reclamation is not st the stage

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Periodically Submitted	Yes Submitted	submited in time
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
бс	afforestation done (ha).	NIL	NA	All Benches are Still Active
6d	No. of saplings planted during the year		Plantation with 2800 Nos of Neem, Pungai & Vagai Sapplings	NIL
бе	Cumulative no .of plants		29100 No. of Saplings Planted	NIL
6f	Any other method of rehabilitation	NIL	NA	No otherspecific method of rehabilitation
бg	Cost incurred on watch and care during the year	NIL	NA	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx	NIL	NA	NIL
6i	B x D Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL
бј	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	No backfilling
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	530 Nos	2800 Nos	Location of the Afforested area as follows,Lat: N 9* 19' 04'' Long: E78* 08' 53''
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.33 Ha	2.30 Ha	NIL
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation with 530 No. of Saplings.	Plantation with 2800 Nos of Neem, Pungai & Vagai Sapplings	So far 29100 No. of Saplings Planted

бр	Compliance of environmental monitoring (core zone and buffer zone)	Periodically Monitored	All the parameters are under permissible limit	Environmental Monitoring Report Periodically .
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No top soil generation during the Year 2018-2019

8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generation during
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump ML- 25.5 to ML- 34.5	OB Dump ML-25.5 to ML- 34.5	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	nIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	530 Nos	2800 Nos	Sofar 29100 No. of Saplings Planted
8g	Survival rate		80 %	
8h	Water sprinkling on roads to control airborne dust	Tanker	10 KL Water Tanker	Water Tanker is being used for Dust Suppression
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mines area is found good

Compliance of Rule 45:

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

9b Scrutiny of As per filed Shri.K.Saravanan (Mining _ _ _ Annual return Annual Return Engineer), for information Shri.L.Venkatarama on Mining Subramanian (Geologist) Engineer, Geologist and Manager 9c Scrutiny of 48.700 Ha. 48.700 Ha. Under current NIL Annual return on Under current workings, 8.500 Ha. for waste diposal, 5.250 Ha land use pattern workings, for area under 8.500 Ha. for for office etc,87.660 Ha pits, reclaimed waste virgin and green belt area, dumps etc. diposal,5.250 area as per AR 2018-19 Ha for office etc,87.660 Ha virgin and green belt area as per AR 2018-19 9d Scrutiny of Neem, Pungai & 0.33 Ha 2.30 Ha Annual return on (530 Nos) (2800 Nos) Vagai afforestation 9e NIL NA No mineral reject Scrutiny of Annual return on generated during mineral reject the period under generation review (Grade and quantity) 9f Scrutiny of 688805.04 Production reported Annual return on tonnes 2018during 2019-20 (upto ROM stock and/or 19 July) 302776 tonnes graded ore 9g Scrutiny of It is captive mine, _ _ Annual return on Ex.mine price and cost sale value, Ex. of production checked Mine price and and found correct. production cost 9h Rs.32323405 shown as Scrutiny of The details given _ _ Annual return on fixed asset value in AR are reasonable. No fixed assets 2018-19. additions in year 18-19 9k Scrutiny of BACK HOE 0.900 CUM - 1, Deployment of BACK HOE 1.100 CUM - 2, Annual return on machinery found. TIPPER 12.000 CUM -8 mining machineries BLAST HOLE DRILL 115 MM -1, AIR COMPRESSOR 400 CUM/min-1 & DOZER-1

Details of violations observed during current inspection and compliance position of violation pointed out					
Viola	tion observed		Show couse position		
Rule NO.	Issued on	Compliance o	n Rule NO). Issued c	on Compliance on

Date :

(S.THIRUNAVUKKARASU)

Indian Bureau of Mines