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 Inspectin Officer and ID No.	g : SØ11) SALIL SANDIP KUJUR	
	(ii)	Designation	: Deputy Controller Mines	
	(iii)	Accompaning mine Official with Designation	: Shri. Jagadeesh Babu. GM-Mines, K. Saravanan. AGM-Mi	n
	(iv)	Date of Inspection	: 19-OCT-20	
	(v)	Prev.inspection date	: 26-FEB-20	
		P	ART-I : GENERAL INFORMATION	
1.	(a)	Mine Name	: SIVALARPATTI	
	(b)	Registration NO.	: IBM/638/2011	
	(c) (d) (e) (f) (g) (h)	First opening date Weekly day of rest	<pre>: A Mechanised : Opencast : TAMIL NADU : THOOTHUKUDI (TUTICORIN) : SIVALARPATTI : VILATHIKULAM : PUDUR : : 04562-256268 : adminrn@madrascements.co.ii : 04562-256201, 201 & 203 : R R NAGAR : 01-JUN-95 : SUN</pre>	
2.		ess for espondance	: SIVALARPATTI LST MINE PUDUR POST VIRUDUNAGAR	
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	: TMN1203 : 150.11 : 20 : 21-MAY-15	
4.	Mine	ral worked	: LIMESTONE Main	

5.	Name	and Address of	the			
		Lessee	:	MADRAS CEI	MENTS LIMITED	
				Floor, 98 Krishnan	porate Center Vth A Dr.Radha salai, Mylapore ITY TAMIL NADU -28478666	
				FAX :044	-28478676	
		Owner	:	P.R.Venke	etrama Raja	
				626204 V NADU	aja udhnagar, Chennai- IRUDHUNAGAR TAMIL 562 256201 -	
					562 256261 -	
				FAX • 04:	202 20200	
		Agent	:	S.Ramaling	gam	
				Virudhnaga VIRUDHUNA Phone: 045	aja Nagar, ar Pin:626204 GAR TAMIL NADU 562 256201 - 203 562 256268	
		Mining Enginee				
		Mining Enginee Name	:	M D Maggor	m Basha,Full Time	
		Qualification	:	B.E(Mining		
		Appointment/ Termination da	:	09-SEP-12		
		Geologist				
		Name	:	L.Venkata:	rama Subramanian,Full Time	
		Qualification	:	M.Sc Geol	ogy	
		Appointment/ Termination da		31-JUL-13		
		Manager				
		Name	:	K. Nagend:	ran	
		Qualification	:	BE.MINING		
		Appointment/ Termination da	: ite	17-MAR-07		
6.		of approval of Scheme of Minin		.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 MP modif under MCR 1960	23-SEP-89 22-JAN-03 05-AUG-04 31-JAN-07 29-NOV-11 28-FEB-14 02-JUL-15 16-DEC-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	NA	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	NIL,Area fully explored upto G1 Level
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	ML Area explored by TRCI & GIEM TO G1 CATEGORY.	Exploration is being carried out for proving of Limestone at Bottom level.
1e	Balance reserve as on 01/04/20	4.30 Mil.Tons	4.30 Mil.Tons	NIL
lf	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a		37 &	As per the Proposal ML - 30.20 to 37 & ML-8 to 9.10 ARE WORKED	NIL
2b	minerals (Rule	Pit 1A-Benches OB- 7,Limestone-1	Pit 1A-Benches OB-7,Limestone-1	Separate benches are maintained in OB and Mineral.
		Pit 1A-Benches OB- 7,Limestone-2 Pit 2-Benches	Pit 1A-Benches OB-7,Limestone-2 Pit 2-Benches OB-7,Limestone-1 AS PER PLAN IS MADE AND	
		Dit 2-Benches OB- 7,Limestone-1	OPERATED.	

2c	Stripping ratio or ore to OB ratio	1 : 2.02	1 : 2.02	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3		485734	As per proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	SATISFACTORY.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 No. of Pits ML - 30.20 to 37 & ML-8 to 9.10		As per the Proposal
3b	Quantity of ROM mineral production proposed	689995	686378	As per the Proposal
3c	Recovery of sailable/usable mineral from ROM production	90 %	90 %	As per the Proposal
3d	Quantity of mineral reject generation	NIL	NA	ROM Limestone transported to Common Crushing Plant. No beneficiation activities involved within ML
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL

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.	Mineral conservation is practiced.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal given.	No proposal during the plan period.	This mine is in working since 1995 and deposit is well established for it's quality and grades.
3j	Provision of drilling and blasting in mineral benches	YES	As per proposal	Deep hole drilling and blasting is proposed and blasting with delay detonators and explosives are done.
3k	Provision of mining machineries in mineral benches	CUM - 1, BACK HOE 1.000 CUM - 2,DOZER 3.000 HP, TIPPER 30.000 CUM -8 BLAST	To do drilling & blasting in the working benches and excavation BACK HOE 0.900 CUM - 1, BACK HOE 1.000 CUM - 2,DOZER 3.000 HP, TIPPER 30.000 CUM -8 BLAST HOLE DRILL 115 MM -1, AIR COMPRESSOR 400 CUM/min-1 are used	as per plan.
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 and are maintained.	Bench height and width suitable for mechanized method and machinery deployed.
3m	Total area covered under excavation/pits	48.70ha	48.70ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:2.02	1:2.02	As per proposal.

Total area put LAND USE LAND USE PATTERN as on nil 30 in use under PATTERN as on 01-04-2020 different heads 01-04-2020 Sl. No Head Extent in at the end of Sl. No Head Ha. Extent in Ha. 1 Area under mining year 1 Area under 48.700 mining 48.700 2 Storage of top soil 2 Storage of 1.960 top soil 3 Overburden/dump 1.960 8.500 4 Mineral Storage 3 Overburden/dum 8.500 5 р Infrastructure(Workshop 4 Mineral Storage / Building) 0.750 6 Roads 4.500 7 Railways 5 Infrastructure 8 Green belt 32.600 9 Tailing pond (Workshop / Building) 0.750 10 Effluent treatment 6 Roads plant -4.500 11 Mineral Separation 7 Railways plant --12 Town ship area 8 Green belt 32.600 13 Others (Garland 9 Tailing pond drains, settling Tank, etc.,) 3.1 _ 10 Effluent treatment plant 11 Mineral Separation plant 12 Town ship area 13 Others (Garland drains, settling Tank, 3.1 etc.,) Production of 2015-2015-16=6,54,931 All production 3p ROM mineral 16=6,89,763 2016-17=6,89,866 quantities nearer 2017-18=6,89,750 during the last 2016to the proposal five year period 17=6,89,999 and within limit. 2018-19=6,88,805 2017-2019-20=6,86,378 as applicable 18=6,89,997 2020-21=2,78,649 (upto 2018-Sep'2020) 19=6,89,998 2019-20=6,89,995 2020-21=6,89,725

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3q General remarks of inspecting officers on method of mining etc.

Solid Waste Management - Dumping:

Sl.No. Remarks Item Propasals Actual work 4a Separate dumping Existing Dump Dumping carried out nil of topsoil, OB to be used separately on existing and mineral OB dump. rejects (Rule 32,33) 4b Location of OB Dump ML-OB Dump ML-25.5 to ML-As per Proposal topsoil, OB and 25.5 to ML-34.5 mineral reject Location: 34.5 Location: N 90 19' 25" dumps N 90 19' 25" E 780 08' 44" E 780 08' 44" 4c Number of dumps Inside ML-3 Inside ML-3 Nos Partly nil, partly within lease Nos Partly Outside ML-6 Nos outside are formed area and outside Outside ML- 6 lond back. of lease area Nos Outside of 4d Location of Yes within the Ultimate Yes. Maintained Pit Limit Ultimate Pit dumps w.r.t. Limit ultimate pit limit (Rule 16) 4e Number of active 3 3 nil and alive dumps. 4f Number of dead 3 3 nil dumps. Number of dumps 3 dumps are 4q 3 3 established. stabilized 4h 5 Nos of Garland Drains Whether nil nil Retaining wall are maintained. or garland drain (Length-8700 m) all along dumps are there. garland drains are made, 4i Length of nil nil South Block: Retaining wall or garland drain 1) 1300 m X 1.5 m X 1.0 all along dumps m 2) 2200 m X 1.5 m X 1.0 m 3) 2900 m X 1.5 m X 1.0 m 4) 1800 m X 1.5 m X 1.0 m North Block: 1) 500 m X 1.5 m X 1.0 m

satisfactory.

4j	Number of settling ponds	5	5	5 nos are maintained.
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.	Not Applicable	Not Applicable	nil
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	All Benches are Still Active
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	na	na	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_	_	satisfactory

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	nil
6b	Area available for rehabilitation (ha) .	nil	na	nil,All Benches are Still Active

6с	afforestation done (ha).	nil	4680 No. of Sapplings planted covering 3.90 Ha in Dump Plantation.	nil
6d	No. of saplings planted during the year	nil	4680 No. of Sapplings planted covering 3.90 Ha in old Dump Plantation.	nil
бе	Cumulative no .of plants	-	Sofar 37600 No. of Neem, Pungai & Vagai Sapplings Planted by covering 32.60 Ha. And 4680 No. of Sapplings planted covering 3.90 Ha in Dump Plantation.	-
бg	Cost incurred on watch and care during the year	nil	nil	nil, only water tractor for sapling is delopyed.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	na	nil	All Benches are Still Active
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	nil	nil	All Benches are Still Active
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na	nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	na	nil	nil

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	450 Nos	5270 Nos Location of the Afforested area as follows Lat: N 9* 19' 50'' Long: E78* 08' 25''	Location of the Afforested area as follows Lat: N 9* 19' 50'' Long: E78* 08' 25''
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.28 На	4.40 Ha	nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation with 450 Nos.	Plantation with 5270 No of Sapplings.	Sofar 37600 No. of Neem, Pungai & Vagai Sapplings Planted by covering 32.60 Ha. And 4680 No. of Sapplings planted covering 3.90 Ha in Dump Plantation
бр	Compliance of environmental monitoring (core zone and buffer zone)	Periodically Monitored	All the para -meters are under permissible limit.	Environmental Monitoring Report Periodically submitted.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_	_	satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	nil	nil	No mineral sorting at pit level. Entire ROM is being transported to beneficiation plant located outside the ML area.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	na	na	nil

7c	Different grade of mineral sorted out at mines.	nil	nil	nil,No segregation of mineral at mine head.
7d	Any beneficiation process at mines	nil	nil	Beneficiation plant located outside ML area.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	 L	_	satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	nil	nil	nil Top soil is not utilized during the Year 2019-2020
8b	Concurrent use or storage of topsoil	OB Dump ML- 25.5 to ML- 34.5 Location: N 90 19' 25" E 780 08' 44"	OB Dump ML-25.5 to ML- 34.5 Location: N 90 19' 25" E 780 08' 44"	Separate dumps are provided as per approved Mining Plan
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	nil	na	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	na	na	Not at this Stage
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na	nil,Old dumps are being terraced for stabilization

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil Proposal	4680 Nos	Sofar 37600 No. of Neem, Pungai & Vagai Sapplings Planted by covering 32.60 Ha. And 4680 No. of Sapplings planted covering 3.90 Ha in Dump Plantation.
8g	Survival rate	90%	80%	SATISFACTORY
8h	Water sprinkling on roads to control airborne dust		WATER SPRINKLERS ARE USED.	Water Tanker is being used for Dust Suppression
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	an (Mining Engineer),	Shri.K.Saravanan (Mining Engineer), Shri.L.Venkatarama Subramanian (Geologist)	PRESENT AT SITE
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Under current		NIL

9c Scrutiny of 48.700 Ha. NIL DETAILS ARE MATCHING. Annual return on Under current land use pattern workings, for area under 10.460 Ha. for pits, reclaimed waste area, dumps etc. diposal, 5.250 Ha for office etc,85.700 Ha virgin and green belt area as per AR 2019-20. 9d 0.30 Ha Sofar 37600 No. of Scrutiny of 4.00 Ha Annual return on (450 Nos) Neem, Pungai & (9950 Nos) afforestation Vagai Sapplings Planted by covering 32.60 Ha. And 4680 No. of Sapplings planted covering 3.90 Ha in Dump Plantation. 9e Scrutiny of nil No mineral reject nil Annual return on generated during the mineral reject period under review generation (Grade and quantity) 9f Scrutiny of 686378.36 686378.36 tonnes of ROM nil Annual return on tonnes of ROM production reported as ROM stock and/or production per 2019-20. graded ore reported as per 2019-20 Ex Mine Price It is captive mine, nil 9g Scrutiny of Annual return on @ Rs.550.83 Ex.mine price and cost of production checked sale value, Ex. and found correct. Mine price and production cost 9h Scrutiny of Rs.32815000 satisfactory nil Annual return on shown as fixed fixed assets asset value in AR 2019-20. 9k Scrutiny of BACK HOE 0.900 Deployment of machinery nil Annual return on CUM - 1, BACK found. mining HOE 1.000 CUM machineries - 2,DOZER 3.000 HP, TIPPER 30.000 CUM -8 BLAST HOLE DRILL 115 MM -1, AIR COMPRESSOR 400 CUM/min-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 on	Rule NO.	Issued on Compliance on		

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines