INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai regional office

	Mine :	file No : TN/PBR/LST-1	5.1	MDS Mine code : 38TMN24040
	(i)	Name of the Inspecting Officer and ID No.	:	TQ03) S.THIRUNAVUKKARASU
	(ii)	Designation	:	Senior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	G.MAGESH ,DGM(MINES),Senthamil selvan,Sr Manager
	(iv)	Date of Inspection	:	25/04/2019
	(v)	Prev.inspection date	:	15/11/2018
		PAR	ат-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	REDDIPALAYAM(63.60HA)
	(b)	Registration NO.	:	IBM/638/2011
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	: : : : : : : :	04329 - 226005 magesh@ramcocements.co.in 044-28478666 , 28478656, 04
	(f) (g)	Police Station First opening date		vikramangalam 05/10/2001
	(h)	Weekly day of rest		SUN
2.	Addre	ess for espondance		AURAS CORPORATE CENTRE, V FLOOR 98-A, RADHAKRISHNAN ROAD MYLAPORE CHENNAI- 4
3.	(a) (b) (c) (d)		:	TMN1031 63.6 30 22/07/2034
4.	Miner	cal worked	:	LIMESTONE Associated

14/05/2015

5	Name and Address of	tho					
5.	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				
			98-A, AURAS CORPORATE CENTRE				
			RADHAKRISHNAN SALAI,MYLAPORE CHENNAI				
			CHENNAI CITY TAMIL NADU				
			Phone:				
			FAX :				
	Agent	:	C.RAVICHANDRAN				
			98-A, AURAS CORPORATE				
			CENTRE R.K.SALAI, MYLAPORE				
			CHENNAI CHENNAI CITY TAMIL NADU				
			Phone:				
			FAX :				
	Mining Enginee	er					
	Name	:	KALLURI SURRENDRA,Full Time				
	Qualification	:	BE(MINING)				
	Appointment/		18/07/2018				
	Termination da	ite					
	Geologist						
	Name	:					
	Qualification						
	Appointment/		01/10/2016				
	Termination da	ite					
	Manager						
	Name	:	G.MAGESH				
	Qualification	:	BE (MINING)				
	Appointment/ Termination da	:	11/01/2008				
6.	Date of approval of	Mini	ng : Fresh under rule 22 MCR1960	16/05/2005			
	Plan/Scheme of Minin		Modif.of approved Mining Plan	01/09/2006			
			Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988	10/08/2011			

Mining Scheme rule 12 MCDR1988

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	Not applicable	Mine is fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2		Not applicable	Fully explored G ! level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Not applicable	All area explored under Gl level
le	Balance reserve as on 01/04/20		13.04 Million Tons (111) 16.31 million Tons (221)	
1f	General remarks of inspecting officers on geology, exploration etc			geology, exploration is find good.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RL- 43.00m to		found no deviation
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	Maintained separate benches in Topsoil and Overburden	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0.45	1 : 0.45	no deviation
2d	Quantity of topsoil generation in m3	33500 m3	34558 m3	NIL
2e	Quantity of overburden generation in m3	351745 m3	406324 m3	

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

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit operation	Single pit operation	AS PER THE PROPOSAL
3b	Quantity of ROM mineral production proposed	1699832 Tons	1605544.97 Tons	with in the limite
3с	Recovery of sailable/usable mineral from ROM production	100% recovery	100% recovery	NIL
3d	Quantity of mineral reject generation	NIL	Not applicable	No generation of mineral reject
3e	Grade of mineral rejects generation and threshold value declared.	NIL	Not applicable	No mineral reject
3f	Quantity of sub grade mineral generation.	NIL	not applicable	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	Not applicable	No segregation form ROM
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Applicable	No Sub grade generation, 100 % reacover	100 % reacover, No benificiation
3ј	Provision of drilling and blasting in mineral benches	Proposed	Drilling & Blasting on contingency condition	as per the proposal

3k Provision of Xcentric Machineries as proposed As per the mining Ripper - 1Nos is deployed for mining proposal machineries in Excavator - 2 operation mineral benches No's Tipper - 7 No's Water Tanker-1 No Dozer -1 No. 31 Whether height 8.0 meters As proposed height of Bench height of benches in the bench is maintained maintained overburden and mineral suitable for method of mining proposed in MP/SOM 3m Total area 29.40.0 ha 29.40.0 ha NIL covered under excavation/pits Ore to OB ratio 1 : 0.36 1 : 0.36 NIL 3n for the pit/mine during the year. 30 Total area put Area under Area under mining with in the limite in use under mining 28.75.0 23.17.0 different heads Storage for Storage for top soil at the end of 1.44.0 top soil year 1.44.0 Overburden / dump 7.10.0 Overburden / Mineral storage 0.35.0 dump 9.10.0 Infrastructure 0.20.0 Roads 2.50.0 Mineral storage 2.20.0 Railways Nil Infrastructure Green belt 6.00.0) 0.05.0 Tailing pond Nil Roads 2.50.0 Effulent treatment plant Railways Nil Nil Green belt Mineral separation plant 8.90.0 Nil Tailing pond Township area Nil Nil Area to be Backfilled Effulent 0.70.0 Others to be specified treatment 22.14.0 plant Nil Mineral separation plant Nil Township area Nil Area to be Backfilled 6.88.0 Others to be specified 3.78.0

Production of with in the limite 3p 2014-15 Year Proposed in Tonnes ROM mineral 1701340 Actual in Tonnes during the last 2015-16 2014-15 1701340 855727 five year period 1693520 2015-16 1693520 1524982 2016-17 1699514 1278759 as applicable 2016-17 1699514 2017-18 1696123 996401 2017-18 2018-19 1699832 1605545 1696123 2018-19 1699832 General remarks ---method of mining 3q ___ is found of inspecting satisfactory officers on method of mining etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	dumping of topsoil and OB proposed as	Topsoil removed has been stored on the Northern side. OB removed has been used for backfilling on the South Western side	as per the proposal
4b	Location of topsoil, OB and mineral reject dumps		Top soil dump : North side of Mining lease OB dump: North side ofMining lease	found as per the proposal
4c	Number of dumps within lease area and outside of lease area	Within the lease area - 2	Within the lease area - 2	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northern side	Northern side	as per the proposal
4e	Number of active and alive dumps.		2 nos. of active Dumps	
4f	Number of dead dumps.	NIL	Not appicble	NIL
4g	Number of dumps established.	NIL	Not appicble	Not at the stage
4h	Whether Retaining wall or garland drain all along dumps are there.	around	Done as per the proposal	as per the proposal

4i	Retaining wall	Garland drain all along dump	drainage has been done all along the dumps	no deviation
4j	Number of settling ponds	has been	Constructed 2 No's of settling pond on the South eastern side of the mining lease boundary	As per the proposl
4k	Specific comments of inspecting officer on waste dump management			waste dump management is found as per the proposals

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.	Part of the area on the southern side is propose to backfill SL_ to SL-5 RL7 to 20M & SL3 -RL7 to 40M	southern side is propose to backfill SL_ to SL-5 RL7 to 20M & SL3 -RL7 to 40M	No deviation
5b	Area under backfilling of mined out area	1.50.0 Hect.	0.90.0 Hect.	under progress
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Topsoil stored on the Northern side is used for green belt development	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 found as per the proposal

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).	YES	Submited	Submited in time
6b	Area available for rehabilitation (ha) .	NIL	Not applicable	NIL
6c	afforestation done (ha).	nil	33.90.5	
6d	No. of saplings planted during the year	nil	5000 No's	
бе	Cumulative no .of plants	nil	86000 No's	NIL
6f	Any other method of rehabilitation	NIL	NIL	rehabilitation not at the stage
бд	Cost incurred on watch and care during the year		4.00 Lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Yes	At the end of the 2018- 19, backfilling process is under progress with a dimension of 370M x 123M x 27M	Backfilling carried out as per the proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Not applicable at the stage	
бј	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	Backfilling is under progress.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	Not applicable	nil

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	Not applicable	Not at the stage
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	Not in the Year	Afforestation will done after backfillingthe mine out area
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	not applcable	Rehabilitation will only arise after completion of the Reclamation
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	not applicable	Not at the stage
бр	Compliance of environmental monitoring (core zone and buffer zone)	Propose to carryout Environmental monitoring both Core and Buffer Zones	M/s Ensyscon Environmental laboratory, Chennai has been engaged for monitoring Environmental Data on Quarterly basis.	NIL
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1699832 Tonst	1605544.97 Tons)	with in the limite
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	NIL	Not applicable	NIL

7c	Different grade of mineral sorted out at mines.	NIL	Not applicable	NIL
7d	Any beneficiation process at mines	NIL	Not applicable	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)	used for green	Used for green belt development	as per the proposal
8b	Concurrent use or storage of topsoil	the Topsoil	Topsoil stored on the Northern side will be used for green belt development after backfilling.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Separate dumps of over burden is being maintained on the North side	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	Backfilling under progress on the south western side	as per the proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Not applicable	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Within the lease area - 5000 Nos	
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	engage Water	10000 Liters water tanker engaged to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mines area is foud good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Eng: Mr.Kalluri Surrendar Geologist: V.Mohan Manager:G.Magesh	Found as per the record submit to IBM
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Land use pattern (at the end of 2018-19) Area under Mining - 28.51.0 Ha. Infrastructure - 0.20.0 Ha. Roads - 2.50.0Ha. Dumps - 7.10.0 Ha. Topsoil Dump - 1.44.0 Others - 23.85.0 Ha. Total - 63.60.0 Ha	NIL

9d	Scrutiny of Annual return on afforestation	Given	Till 2018-19, Afforestation have been completed by planting 86000Nos covering all along the Mining lease boundary, bund slopes etc.,	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Not applicable	No reject generation
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	Not applicable	No stock and/or graded ore
99	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	5	Ex-Mine price - Rs.278.93 Production cost - Rs.171.30	NIL
9h	Scrutiny of Annual return on fixed assets	Given	Rs128443598 /-	Verified found cotrrect
9k	Scrutiny of Annual return on mining machineries		Xcentric Ripper - Tata Hitachi 350- 1 No Excavator - 2 No's Tipper - 7 No's Water Tanker- 1 No D-50 Dozer-komatsu - 1No	NIL

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show couse position		
Rule NO.	Issued on Compli	ance on	Rule NO.	Issued on Compliance on	

Date :

(S.THIRUNAVUKKARASU)

Indian Bureau of Mines