INDIAN BUREAU OF MINES MINERALS DEVELOPMENT 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 : AQ42) A.S.SANJEEVA RAO

Officer and ID No.

(ii) Designation : Junior Mining Geologist

(iii) Accompaning mine : MR SENTHAMIL SELVEM-MGR-GEOLOGY&Mr MOHAN, GEOLOGIST

Official with Designation

(iv) Date of Inspection : 13/12/2022

(v) Prev.inspection date : 17/08/2021

PART-I : GENERAL INFORMATION

. (a) Mine Name : PUDUPALAYAM(NORTH)

(b) Registration NO. : IBM/638/2011

(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.ii

Phone : 04329-294400

(f) Police Station : ARIYALUR
(g) First opening date : 24/03/2009

(h) Weekly day of rest : SUN

2. Address for : GOVINDPURAM ROAD

correspondance MADRAS CEMENTS LIMITED,

Govindrajapuram, Sendurai Road, Ariyalur-621713

3. (a) Lease Number : TMN1030 (b) Lease area : 4.83 (c) Period of lease : 20

(d) Date of Expiry : 15/06/2015

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.RAMA SUBRAMANYA RAJA

AURAS CORPORATE CENTRE VFLOOR,98A,RADAKRISHNAN R MYLAPORE,CHENNAI CHENNAI

CITY TAMIL NADU Phone: 044-8555815 FAX : 044-830248

Agent : C. RAVICHANDRAN

GENERAL MANAGER (Adm)
MADRAS CEMENTS LTD,
GOVINDAPURAM WORKS,
SENDURAI ROAD ARIYALUR

TAMIL NADU

Phone: 04329-226001 FAX : 04329-226005

Mining Engineer

Name : Shri.Kesamsetti Maheshkumar, Full Time

Qualification : B.tech Mining Appointment/ : 18/07/2018

Termination date

Geologist

Name : S ARUN, Full Time

Qualification : MSC.GEOLOGY Appointment/ : 01/04/2017

Termination date

Manager

Name : A RAMBABU

Qualification : B.TECH MINING, FCC

Appointment/ : 01/07/2019

Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 07/08/2006 Plan/Scheme of Mining MP modif under 17(3) MCR 2016 24/10/2016 MP review under 17(1) MCR 2016 30/10/2018 MP modif under 17(3) MCR 2016 18/08/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No backlog exploration.
1b	Exploration over lease area for geological axis 1 or 2		G-1	Nil.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	No exploration carried out in the year 2021-22	Nil.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	Entire lease area explored G-1level.	Nil.
1e	Balance reserve as on 01/04/20		(111)5,19,194Ts (221)13,01,210Ts (222)38,25,730Ts (Cao-40%to 50%,SiO2-7%- 8%)	As on 1.4.2022.
1f	General remarks of inspecting officers on geology, exploration etc		Lease area has been proved upto 56m depth.Total depth drilled was 491m with 200mx200m grid interval	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No separate Proposal.	No separate Proposal for developement.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes.	OB benches-3nos.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No generation of OB.
2d	Quantity of topsoil generation in m3	Nil.	No generation of top soil.	Nil.
2e	Quantity of overburden generation in m3	Nil.	No generation of over burden.	Nil.

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

No proposal is envisaged.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	Between grid lines E200-E300 and N100-N200
3b	Quantity of ROM mineral production proposed	99,980Ts	99,959.98Ts	Nil.
3с	Recovery of sailable/usable mineral from ROM production	100 %	100 %	No waste generation.
3d	Quantity of mineral reject generation	Nil.	Nil.	No reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	Nil.	Not applicable.	Nil.
3f	Quantity of sub grade mineral generation.	Nil.	Nil.	Nil.
3g	Grade of sub grade mineral generation	Nil.	No generation of sub grade mineral.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	Nil.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil.	Nil.	Nil.

### Provision of mining machineries in mineral benches ### Mether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM ### Total area covered under excavation/pits ### Total area put in use under different heads at the end of year ### Production of 2017- ROM mineral marks of inspecting officers on method of mining setc. ### A General remarks of inspecting officers on method of mining etc. ### A General remarks of inspecting officers on method of mining as Mm. ### Mineral mineral mineral method of mining etc. ### A Mineral mineral mineral mineral method of mining etc. ### A Mineral mineral mineral mineral mineral method of mining etc. ### A Mineral mining mineral mineral mineral mining etc. ### A Mineral mining as mineral mining etc. ### A Mineral mining mineral mineral mining etc. ### A Mineral	3j	Provision of drilling and blasting in mineral benches	Yes.	Adopted non-conventional method by engaging Xcentric Ripper.	Drilling & Blasting is done on contingency condition by adopting controlled blasting techniques.
of benches in overburden and mineral suitable for method of mining proposed in MP/SOM 3m Total area	3k	mining machineries in			Nil.
covered under excavation/pits 3n Ore to OB ratio for the pit/mine during the year. 3o Total area put in use under different heads at the end of year 3p Production of ROM mineral during the last five year period as applicable Ts	31	of benches in overburden and mineral suitable for method of mining proposed	8m.	8m.	
for the pit/mine during the year. 30 Total area put in use under different heads at the end of year 3p Production of 2017- 2017-18 - 937133 Ts Nil. ROM mineral 18=1499400Ts 2018-19 - 1245691Ts during the last five year period as applicable 19=1498032Ts 2020-21 - 372176.02 Ts 2021-22 - 99959.98 Ts Ts 2019- 20=1000200 Ts 2020- 21=600900Ts 2021- 22=99980Ts 3q General remarks of inspecting officers on method of mining Controlled blasting adapted . William of the controlled blasting adapted .	3m	covered under	9.53На	9.53На	Nil.
in use under different heads at the end of year 3p Production of	3n	for the pit/mine	1:0	1:0	Nil.
ROM mineral 18=1499400Ts 2018-19 - 1245691Ts during the last 2018- 2019-20 - 744618.28Ts five year period as applicable 2021-22 - 99959.98 Ts Ts 2019- 20=1000200 Ts 2020- 21=600900Ts 2021- 22=99980Ts 3q General remarks of inspecting officers on method of mining Controlled blasting adapted .	30	in use under different heads at the end of	17на.	16.935на.	Nil.
2019- 20=1000200 Ts 2020- 21=600900Ts 2021- 22=99980Ts 3q General remarks of inspecting officers on method of mining Controlled blasting Nil. techniques are being adapted .	3p	ROM mineral during the last five year period	18=1499400Ts 2018-	2018-19 - 1245691Ts 2019-20 - 744618.28Ts 2020-21 - 372176.02 Ts	Nil.
of inspecting techniques are being officers on adapted . method of mining			2019- 20=1000200 Ts 2020- 21=600900Ts 2021-		
	3q	of inspecting officers on method of mining		techniques are being	Nil.

Actual work

Remarks

Solid Waste Management - Dumping:

Propasals

Sl.No.

Item

4				
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Dump proposed.	The entire topsoil and OB already used for backfilling .	Done as proposed in the approved document.
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Not applicable.	Nil.
4c	Number of dumps within lease area and outside of lease area	One.	One.	As proposed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NE side of lease area ,where mineral exhausted.	As proposed, NE side of lease area ,where mineral exhausted.	Between grid Location: N-S: 450 to 700 & E-W: 480 to 640 Grid Location: N-S: 450 to 700 & E-W: 480 to 640.
4e	Number of active and alive dumps.	Nil.	Nil.	Nil.
4f	Number of dead dumps.	One dump.	One dump.	One dump.
4 g	Number of dumps established.	One dump.	One dump.	One dump.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes,0.02m.	Inactive dump.	Nil.
4 i	Length of Retaining wall or garland drain all along dumps	Garland drain all along peripheral bund 700m X 3m X 2m	drainage all along the peripheral bund.	Nil.
4j	Number of settling ponds	2 ponds.	2 no's of settling ponds on the eastern side of the mining lease boundary.	Nil.
4k	Specific comments of inspecting officer on waste dump management			Dump stablised.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil.	No proposal.	No proposal for the year 2021-22
5b	Area under backfilling of mined out area	Nil.	Nil.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal .	Nil.	Nil.
5d	Total area fully reclaimed and rehabilitated	No Proposal.	Nil.	Fully reclaimed area was7.89ha.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back filled area has been rehabilitaed with plantaion.

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.	Submitted.	Report for the year 2021-22 has been submitted.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.25ha	0.25ha	Nil.
6d	No. of saplings planted during the year	500 nos.	2000 no of saplings.	Nil.
6e	Cumulative no .of plants	Not available.	About 40,000 saplings.	Nil.
6f	Any other method of rehabilitation	No proposal.	Nil.	Nil.
6g	Cost incurred on watch and care during the year	Nil.	No specific details available.	Nil.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Nil.	Nil.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal.	Nil.	Nil.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	Nil.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil.	Rehabilitation done by green belt development on the backfilled area.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Nil.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	No waste land avilable.	Nil.
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	No waste land avilable.	Nil.

6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring report	Periodical Monitori	ng.	Environmental parameters are with in limits.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.				There was no proposal for back filling for year 2021-22.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM.	Entire ROM.	Nil.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanised method.	Mechanised method.	Nil.
7c	Different grade of mineral sorted out at mines.	No.	Consumption of entire ROM.	Nil.
7d	Any beneficiation process at mines .	Nil.	No beneficiation process proposed.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire ROM being consumed in captive cement plant.	Nil.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	Nil.	Nil.

8b	Concurrent use or storage of topsoil	No Proposal.	No generatio of top soil or over burden.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No generation.	Nil.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal.	Nil.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific details.	About 40,000plantation.	Nil.
8g	Survival rate	90%	80%-90%	Nil.
8h	Water sprinkling on roads to control airborne dust	for control	Water tanker is being engaged for the purpose.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Green belt developed on North and North eastern parts of lease boundary and backfilled area.	Nil.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All the returns are submitted.	Annual return for the year 2021-22 has also submitted.	Nil.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr E.THANGAKUMAR- Mining Engineer;Mr A.RAMBABU- Manager(Mines); Mr S.ARUN- Geologist;	Accompanied during inspection of mines.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Workings-9.53 Ha;Reclaimed/R ehabilitated-	Furnished under Part - I of 11.	Nil.
9d	Scrutiny of Annual return on afforestation	2000-saplinmgs	Furnished under Part Part - V of 4.4	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	No generation of reject material.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	99,960Ts	Furnished under part V1.	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price - Rs.307.23	Furnished under part Part-VI at sl no.2 .	Nil.
9h	Scrutiny of Annual return on fixed assets	Rs.14463150/-	furnished under Part- IIA.	Nil.
9k	Scrutiny of Annual return on mining machineries		Furnished in Part-V of section 5.	Nil.

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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 :

(A.S.SANJEEVA RAO)

Indian Bureau of Mines