

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-28.MDS

Mine code : 38TMN38046

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR TAMILSELVEM & Mr.I.Lakshmi Naranaya Mine Manager
Official with
Designation
- (iv) Date of Inspection : 25-OCT-20
- (v) Prev.inspection date : 04-JAN-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KALLANKURICHI 25.105 HA
- (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 : KALLANKURICHI
- Taluka : ARIYALUR
- Post office : KALLANKURICHI
- Pin Code : 621705
- FAX No. : 044-28478676
- E-mail :
- Phone : 044-28478666
- (f) **Police Station** : USENABAD
- (g) **First opening date** : 10-JAN-17
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : THE RAMCO CEMENTS LTD
AURAS TOWERS, 98-A,RADHAKRISHNAN ROAD
MYLAPORE, CHENNAI-600004.
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : THE RAMCO CEMENTS LTD
 AURAS CORPORATE CENTRE 98-
 A,RADHAKRISHNAN ROAD
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : R.JAYAKER,Full Time
 Qualification : B E MINING
 Appointment/ : 07-NOV-18
 Termination date

Geologist

Name : V.C.SHUNMUGAM,Full Time
 Qualification : M.SC-GEOLOGY
 Appointment/ : 07-NOV-18
 Termination date

Manager

Name : Shri.I.Lakshmi Naranaya,
 Qualification : BTECH MINING WITH FIRST CLASS
 Appointment/ : 01-JUL-19
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23-MAY-16
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	04-APR-18
		MP modif under 17(3) MCR 2016	07-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NIL	Already the area had been explored under G1 category
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Already the area had been explored under G1 category
1e	Balance reserve as on 01/04/20	-	3.94 Million Tons	3.94 Million Tons G1 CATEGORY RESERVE.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY, AS 3.94 Million Tons RESERVE AND the area had been explored under G1 category

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	SL-2-2' - RL-79.00 to 63.00m	SL-2-2' - RL-63.00m to 79.00m	Done as proposed in the Mining Plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Marl benches-2 L.st benches- 2	Done as per the proposal	Done as proposed in the Mining Plan
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.22	As per Mining Plan
2d	Quantity of topsoil generation in m3	No proposal	NIL	As per Mining Plan
2e	Quantity of overburden generation in m3	120685	120420	As per Mining Plan
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	Single pit operation	Single pit operation	As per Mining Plan
3b	Quantity of ROM mineral production proposed	2019-20 - 999909 Tons (L.St- 629267 Tons & Marl- 370641 Tons)	2019-20 -982613.94 Tons (L.St- 627554.60 Tons & Marl- 355059.34 Tons)	As per Mining Plan
3c	Recovery of sailable/usable mineral from ROM production	100 % mineral recovered from ROM (999909 Tons)	100 % mineral recovered from ROM (982613.94 Tons)	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable as we proposed to consume on ROM (Run of Mine) basis	As proposed, consumed on ROM (Run of Mine) basis	NIL

3f	Quantity of sub grade mineral generation.	NA	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	Not Applicable AS ALL MATERIAL IS TAKEN TO CEMENT PLANT.
3j	Provision of drilling and blasting in mineral benches	NIL	NIL	NIL
3k	Provision of mining machineries in mineral benches	YES, "Ripper Dozer - 1 No Excavator-EX-220 - 1 No's Tipper - 10 No's Water Tanker - 1 No"	"Ripper Dozer - 1 No Excavator-EX-220 - 1 No's Tipper - 10 No's Water Tanker - 1 No"	"Ripper Dozer - 1 No Excavator-EX-220 - 1 No's Tipper - 10 No's Water Tanker - 1 No" are used.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes the height of the benches in overburden and mineral suitable for method of Mining height=6 mtr width=6 mtr	Yes the height of the benches in overburden and mineral suitable for method of Mining height=6 mtr width=6 mtr are maintained	As per Mining Plan
3m	Total area covered under excavation/pits	5.45.0 Ha	5.45.0 Ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.22	nil

3o	Total area put in use under different heads at the end of year	Activities Area use at the end of approved plan period (in Ha) Area under mining 7.30.0 Storage for top soil 0.00.0 Overburden / dump 5.16.0 Mineral Storage 0.00.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Railways 0.00.0 Tailing pond 0.00.0 Effluent treatment plant 0.00.0 Mineral separation plant 0.00.0 Township area 0.00.0 Area Backfilled 0.00.0 Others to be specified (green belt etc.,) 11.94.5 Total 25.10.5	Activities Area use at the end of approved plan period (in Ha) Area use at the end of year 2019-20 (in Ha) Area under mining 7.30.0 5.45.0 Storage for top soil 0.00.0 0.00.0 Overburden / dump 5.16.0 3.43.5 Mineral Storage 0.00.0 0.00.0 Infrastructure (workshop, administrative building) 0.20.0 0.20.0 Roads 0.50.0 0.50.0 Railways 0.00.0 0.00.0 Tailing pond 0.00.0 0.00.0 Effluent treatment plant 0.00.0 0.00.0 Mineral separation plant 0.00.0 0.00.0 Township area 0.00.0 0.00.0 Area Backfilled 0.00 0.00	as per plan.
3p	Production of ROM mineral during the last five year period as applicable	999909 Tons	982613.94 Tons	nil
3q	General remarks of inspecting officers on method of mining etc.	-	-	satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	SL-1 RL: 87.00m to 97.00m	SL-1 RL: 87.00m to 97.00m	As per plan
4b	Location of topsoil, OB and mineral reject dumps	Section Line - 1-1'	Section Line - 1-1'	As per plan
4c	Number of dumps within lease area and outside of lease area	Within the lease area - 2	Within the lease area - 2	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North East Side	North East Side	nil
4e	Number of active and alive dumps.	2 No	2 No	nil
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	nil	nil	nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Garland drain has been maintained all along the Mininig lease boundary	nil
4j	Number of settling ponds	No Proposal	nil	nil
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.	No Proposal	NIL	NIL

5b	Area under backfilling of mined out area	No Proposal	No Proposal	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	NIL
5d	Total area fully reclaimed and rehabilitated	NA	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	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).	Proposal as cited in the Mining plan	Submitted the PMCP report vide Rule 23 E(2) of MCDR 2017	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	0.10.0	1.50.0	nil
6d	No. of saplings planted during the year	200 No's	10050 No's	In backfilled area
6e	Cumulative no .of plants	nil	13500 No's	nil
6f	Any other method of rehabilitation	na	na	nil
6g	Cost incurred on watch and care during the year	nil	6.0 Lakhs	nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	There is no reclamation proposal, entire pit converted as water reservoir.	Not Applicable as no reclamation is started.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	There is no reclamation proposal, entire pit converted as water reservoir.	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	nil	na
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	There is no reclamation proposal, entire pit converted as water reservoir.	nil, no backfilling only water reservoir will form at the end of the life of the mine.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	na	na	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no waste land available	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL

6p	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.	Is being done on Quartrely basis AND ALL DATA ARE WITHIN LIMIT.
6q	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	NO GRADE WISE SORTING IN LEASE	NIL
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
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY.

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 Proposal	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SL-1-1' from RL-87.00m to 97.00m	SL-1-1' to 3-3' from RL-87.00m to 105.00m	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Dumped in SL-1-1' to 3-3' from RL-87.00m to 105.00m	Dumped in SL-1-1' to 3-3' from RL-87.00m to 105.00m	As per plan
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)	Within the lease area - 200No's	Within the lease area - 10500 No's	NIL
8g	Survival rate	90%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Propose to engage Water Tanker for control airborne dust	10000 Liters water tanker has been engaged for sprinkling to control airborne dust	NIL
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
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto September-2020	M.R. Submitted upto September- 2020	NIL
			A.R. Submitted for the year 2019-20	
		A.R. Submitted for the year 2019-20		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Provided in Part-I and para 7,8 & 9 Manager Shri I.LAKSHMI NARANAYA 8. Mining Engineer in charge Shri R.JAYAKER 9. Geologist in charge Shri V.C.SHUNMUGAM	Manager Shri I.LAKSHMI NARANAYA 8. Mining Engineer in charge Shri R.JAYAKER 9. Geologist in charge Shri V.C.SHUNMUGAM	PRESENT

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 5.450 5.450 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 3.235 3.235 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.700 0.700 (vi) Other Purpose (GREEN BELT & OTHERS) 0.000 15.720 15.720 (vii) Wo	AS PER A/R	NIL
9d	Scrutiny of Annual return on afforestation	(i) Number of trees planted during the year 10500	SATISFACTORY	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK AT MINES AND A.R	NO STOCK FOUND	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Grades Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 627554.600 627554.600 0.000 205.38	CEMENT GRADE LIMESTONE=RS 205.38	NIL
9h	Scrutiny of Annual return on fixed assets	RS 3665055	nil	nil

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 1.600 CUM 2 Non Electrical Opencast DOZER 90.000 HP 1 Non Electrical Opencast DOZER 636.000 HP 1 Non Electrical Opencast TIPPER 10.000 CUM 10 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 1.600 CUM 2 Non Electrical Opencast DOZER 90.000 HP 1 Non Electrical Opencast DOZER 636.000 HP 1 Non Electrical Opencast TIPPER 10.000 CUM 10 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast were used in mines.	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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines