

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TKD/LST-19.Mds

Mine code : 38TMN31011

- (i) Name of the Inspecting : **G039**) **G.C.Sethi**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr P.Jagadish Babu,SGM(Mines)&Mr Senthlkumaran
Official with
Designation
- (iv) Date of Inspection : 23/08/2022
- (v) Prev.inspection date : 14/10/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SIVALARPATTI129.72 HA**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : THOOTHUKUDI (TUTICORIN)
- Village : SIVALARPATTI
- Taluka : VILATHIKULAM
- Post office : SIVALARPATTI
- Pin Code : 628905
- FAX No. : 04562-256268
- E-mail : vssm@ramcocements.co.in
- Phone : 04562-256268
- (f) Police Station : Pudur
- (g) First opening date : 18/02/2022
- (h) Weekly day of rest : SUN
2. Address for : Sivalarpatti,
correspondance Pudur post,
Virudhunagar district
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 :

Owner : P.R.Venketrama Raja
 Ramasamiraja
 Nagar,Virudhnagar, Chennai-
 626204 VIRUDHUNAGAR TAMIL
 NADU
 Phone: 04562 256201 -
 FAX : 04562 256268

Agent : S.Ramalingam
 Ramasamiraja Nagar,
 Virudhnagar Pin:626204
 VIRUDHUNAGAR TAMIL NADU
 Phone: 04562 256201 - 203
 FAX : 04562 256268

Mining Engineer
 Name : V.MAHESHA,Full Time
 Qualification : Dip in MINING
 Appointment/ : 13/05/2022
 Termination date

Geologist
 Name : R.SENTHILKUMARAN,Full Time
 Qualification : MSc GEOLOGY
 Appointment/ : 18/02/2022
 Termination date

Manager
 Name : K.SARAVANAN
 Qualification : BE MINING
 Appointment/ : 18/02/2022
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 23/05/2016
 Plan/Scheme of Mining : MP review under 17(1) MCR 2016 19/11/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil.	Nil.	Nil.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Explored to G-1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	Nil.	No exploration is proposed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	Nil.	Nil.
1e	Balance reserve as on 01/04/20	(111)-2.27MT	(111)-2.44MT	CaO-44.54%,SiO2-12.38%,Fe2O3-1.53%,Al2O3-2.98%.
1f	General remarks of inspecting officers on geology, exploration etc		No exploration proposal envisaged in the ROMPand no exploration has been done during the year.	Nil.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML-4 to 1.50.	As proposed ML-4 to 1.50.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil, 1 bench each in over burden and limestone.	No top soil, 1 bench each in over burden and limestone.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.32	1:0.88	Nil.
2d	Quantity of topsoil generation in m3	12560.	6839.	Due to varied thickness of topsoil.
2e	Quantity of overburden generation in m3	21240	8344	Due to less developmental activities of production.The mining operations started only on 18.02.2022.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The mining operations started on 18-02-2022 ,so the production and development for the year 2021-22 could not achieved.	Nil.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ML - 4 to 1.50	ML - 4 to 1.50	Nil.
3b	Quantity of ROM mineral production proposed	229500Ts	39861.36Ts	Mining operations commenced on 18-02-2022 after obtaining EC.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	As per the Proposal.
3d	Quantity of mineral reject generation	22,950Ts	Nil.	Mining operations commenced recently on 18-02-2022 ,mining carriedout less than 45days only during the year.
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	No generation of mineral reject during the year.
3f	Quantity of sub grade mineral generation.	Nil.	Nil.	Nil.
3g	Grade of sub grade mineral generation	Nil.	Nil.	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method.	Mechanized method.	Nil.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil.	Nil.	No beneficiation activites with in lease area.

3j	Provision of drilling and blasting in mineral benches	Yes.	As proposed,deep hole drilling and blasting,blasting with delay detonators and explosives.	Deep hole drilling and blasting, blasting with delay detonators and explosives.
3k	Provision of mining machineries in mineral benches	9m bench height.	9m bench height.	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9m.	9m.	Suitable for mining.
3m	Total area covered under excavation/pits	1.40 ha	1.40 ha	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:0.88	Due to less developemnt and production.
3o	Total area put in use under different heads at the end of year	46.84 ha	46.84 ha	Nil.
3p	Production of ROM mineral during the last five year period as applicable	2017-18=2,29,050Ts 2018-19=2,29,500Ts 2019-20=2,31,750Ts 2020-21=2,36,250Ts 2021-22=2,29,500Ts 2022-23=2,29,050	2017-18= Nil 2018-19= Nil 2019-20= Nil 2020-21= Nil 2021-22= 39,861.36Ts	Mining operations commenced on 18-02-2022 after obtaining EC.
3q	General remarks of inspecting officers on method of mining etc.			Though mining lease executed on 10.01.2017, Mining operations commenced on 18-02-2022 after obtaining EC.

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)	Yes.	Dumping carried out separately .	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Topsoil Dump on the South Side of ML 3.0 and Reject Dump on the South West Side from ML(-)0.50	Topsoil Dump on the South Side of ML 3.0 and Reject Dump on the South West Side from ML(-)0.50	As per plan.
4c	Number of dumps within lease area and outside of lease area	Inside ML-2 Nos .	Inside ML-2 Nos .	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of Ultimate Pit limit.	Outside of Ultimate Pit limit.	Nil.
4e	Number of active and alive dumps.	2Nos.	2Nos.	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.	No Proposal.	Nil.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal.	Nil.	Nil.
4j	Number of settling ponds	One.	One.	Nil.
4k	Specific comments of inspecting officer on waste dump management			Production & Development started on 18-02-2022 after obtaining of Consent.

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.	No.	Nil.	Nil.
5b	Area under backfilling of mined out area	No proposal.	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.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mining operation commenced on 18.2.2022.

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).	Yes.	Submitted.	Report for the year 2021-22 has been submitted.
6b	Area available for rehabilitation (ha) .	Nil.	Nil.	Nil.
6c	afforestation done (ha).	1.65 ha.	1.65 ha.	Nil.
6d	No. of saplings planted during the year	3800nos.	6000nos.	Nil.
6e	Cumulative no .of plants		6000nos.	Nil.
6f	Any other method of rehabilitation	Nil.	Nil.	Nil.
6g	Cost incurred on watch and care during the year	Not indicated.	Nil.	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)Afforestation 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.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil.	Nil.
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.	Nil.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	Nil.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Submitted.	Periodical Monitoring.	Environmental parameters are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			There was no proposal for reclamation and rehabilitation for 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.	As per plan.
7d	Any beneficiation process at mines .	Nil.	No beneficiation inside ML area.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Beneficiation plant located outside ML area at Pandalgudi.	3% to 4% of clay contaminants and weathered gneissic material 20mm-40mm removed by reject belt.

Environment:

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

8b	Concurrent use or storage of topsoil	No proposal.	Nil.	Top Soil stacked separately.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes.	As proposed overburden, waste rock, rejects being dumped separately.	Reject dump on South West Side from ML and Topsoil dump on South Side of ML .
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	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)	800no of plantation.	2400no of plantation.	Nil.
8g	Survival rate		80%	Nil.
8h	Water sprinkling on roads to control airborne dust	10 KL Water Tanker.	Water tanker is being used for dust suppression.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			A good number of plantation has been done though, mining operations commenced recently.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly returns are being submitted within due time. AR for 2021-22 has also been submitted.	Nil.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	MAHESHA V-Mining Engineer in charge;R SENTHILKUMARAN -Geologist in charge;K.SARAV ANAN-Manager;	Accompanied during inspection.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings- 1.4ha;Used for waste disposal- 43.98ha;Occupied by plant, buildings, residential, welfare buildings & roads-.46ha.	Furnished under Part-I of sl.no.12.	Nil.
9d	Scrutiny of Annual return on afforestation	6000nos.	Under Part-V of para 4.4.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	No	Under Part-V of section 4.2.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	39861.360Ts	Furnished in Part-VI at sl no.1	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.588.45	Furnished inn Part-VI at sl no.2 and Part-VII .	Nil.
9h	Scrutiny of Annual return on fixed assets	Rs.89902000/-	Furnished in Part-IIA.	Nil.
9k	Scrutiny of Annual return on mining machineries	BACK HOE-0.900 CUM-1Nos. and TIPPER- 12.00CUM-2Nos.	Furnished in Part-V of section 5.	Nil.

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
MCDR17	Rule 11(1)	05/09/2022			

Date :

(G.C.Sethi)

Indian Bureau of Mines