

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PT/LST-40/MDS

Mine code : 38TMN24034

- (i) Name of the Inspecting : 043) T.PHALTHURAJHEN
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Mr.S.Ravichandran- (Mining Engineer)
Official with
Designation
- (iv) Date of Inspection : 03/12/2022
- (v) Prev.inspection date : 07/11/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KARUPPURSENAPATHY(3.88HA)
- (b) **Registration NO.** : IBM/7616/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village : KARUPPUR SENAPATHY
- Taluka : ARIYALUR
- Post office : KEELAPALUR
- Pin Code : 621707
- FAX No. : 91-431-2201410
- E-mail : mines@vijaycements.com
- Phone : 2202244, 2202245
- (f) **Police Station** : Keelapalur
- (g) **First opening date** : 30/05/2003
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Vellakalpatti village,Puthanampatti post,
Musiri taluk,Trichy District
Pin-621007
3. (a) **Lease Number** : TMN0894
- (b) **Lease area** : 3.88
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 08/05/2023
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S. VIJAY CEMENTS
 NO.2/4, LAWSONS ROAD
 CANTONMENT TRICHY
 PERAMBALUR TAMIL NADU
 Phone:0431-2202244, 2202245
 FAX :91-0431-2201410

Owner : J.MADANMOHAN (M/S.VIJAY CEMENTS)
 NO.2/4, LAWSONS ROAD
 CANTONMENT TRICHY
 PERAMBALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : S.Ravichandran, Full Time
 Qualification : B.E Mining
 Appointment/ :
 Termination date

Geologist

Name : V.Muthu Periyanyagam, Full Time
 Qualification : MSc Geology
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	17/02/2003
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	06/05/2005
	:	Mining Scheme rule 12 MCDR1988	24/04/2009
	:	Mining Scheme rule 12 MCDR1988	06/06/2013
	:	MP review under 17(1) MCR 2016	02/03/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Exploration completed for proved reserves.
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	NIL	NOT REQUIRED AS ALL AREA ARE EXPLORED G1 CATEGORY
1e	Balance reserve as on 01/04/20	-	260364 TS	Not applicable .
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 74-70	ML 74-70	As per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	-
2c	Stripping ratio or ore to OB ratio	1:1	2:1	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	No comments
2e	Quantity of overburden generation in m3	Nil	Nil	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	No comments.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 pit	1 pit	As per proposal.
3b	Quantity of ROM mineral production proposed	50642 Ts	26421.830 Ts	no comments.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100%	As per proposal.
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
3f	Quantity of sub grade mineral generation.	Nil	Nil	No comments.
3g	Grade of sub grade mineral generation	Nil	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	mechanized	mechanized	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	No comments.
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	no comments.

3k	Provision of mining machineries in mineral benches	proposed	L & T Komatsu PC 200	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-5 m, Width- more than height of the bench.	Height-5 m, Width- more than height of the bench.	as per proposal
3m	Total area covered under excavation/pits	3.0 ha	3.0 ha	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	NIL
3o	Total area put in use under different heads at the end of year	Mined out land =0.14 ha reclaimed =0.14 ha ,Road & infra=0.04 ha green belt=0.08 ha	Mined out land =0.14 ha reclaimed =0.14 ha ,Road & infra=0.04 ha green belt=0.08 ha	No comments.
3p	Production of ROM mineral during the last five year period as applicable	2017-18=38250 Ts, 2018-19=53900, 2019-20=49640 , 2020-21=52315, 2021-22=51675, 2022-23=51310 Ts	2017-18=0Ts, 2018-19=18050.00, 2019-20=19200, 2020-21=36500, 2021-22=20500, 2022-23=1200 ts .	upto october2022.
3q	General remarks of inspecting officers on method of mining etc.	-	-	nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	No comments.

4c	Number of dumps within lease area and outside of lease area	1 dump	1 dump	Dumped within the lease area as per proposal.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	AS PER PROPOSAL.
4e	Number of active and alive dumps.	NIL	NIL	OB DUMP
4f	Number of dead dumps.	0	0	NIL
4g	Number of dumps established.	0	0	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	No comments
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	No comments.

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.	NIL	NIL	NIL
5b	Area under backfilling of mined out area	NIL	NIL	As per proposal.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-	-	As per proposal.

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Area reclaimed
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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).	Periodically submitted	for the 2021-22 PMCP submitted	nil
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.024 HA	0.024 HA	No comments.
6d	No. of saplings planted during the year	25 saplings	30 Saplings	No comments.
6e	Cumulative no .of plants	90 nos.	90 nos.	nil
6f	Any other method of rehabilitation	NIL	NIL	-
6g	Cost incurred on watch and care during the year	Rs.100000/	Rs.100000/	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	-	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	After mining is completed will be making water re reservoir	After mining is completed will be making water re reservoir	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	not applicable	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	yes	All the monitorised valuas are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	no comments.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	No comments.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No comments.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	Top soil separately removed and utilized for plantation.
8b	Concurrent use or storage of topsoil	yes	yes	Both are practiced.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	nil	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	nil	nil	no comments.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	650 plantations.	nil
8g	Survival rate	90%	90%	-

8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads, proposed cpmplied.	water sprinkling on haul roads, proposed cpmplied.	No comments.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns submitted regularly.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Shri.S.Ravichandran and Shri . muthu perianayagam- mining geologist.	Mining Engineer Shri.S.Ravichandran and Shri . muthu perianayagam- mining geologist.	Appointed As per Rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	mineout area- 0.14 ha , reclaimed area-0.14 ha, road and infra stru- 0.04 ha, green belt-0.08 ha, afforestation- 0.024 ha.	mineout area-0.14 ha , reclaimed area-0.14 ha, road and infra stru- 0.04 ha, green belt-0.08 ha, afforestation-0.024 ha. given in part-i..Sino- belt-0.08 ha , 12.	As per rule.
9d	Scrutiny of Annual return on afforestation	Provided in annual returns	Given in part-V, Sl no.4.4	As per rules
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject.	Given in part-V, Sl No 4.2	As per rules.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	provided in annual return.	Given in PartVI.slno. 1	As per Rules.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	provided in annual return.	Given in part-VI, s1 No.5	As per rules.
9h	Scrutiny of Annual return on fixed assets	Provided in annual returen.	given in part- IIA, s1 no .1.	As per rules.
9k	Scrutiny of Annual return on mining machineries	given in part -V, sec-5	Back Hoe-0.900CUM, -1 , Non elctrical	no comments.

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 27(2)	08/12/2022			

Date :

(T.PHALTHURAJHEN)

Indian Bureau of Mines