

**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 : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : W.JABARLIN, OWNER REP. AND V.MUTHURERIYANAYAGAN, GEOL
Official with
Designation
- (iv) Date of Inspection : 13/07/2023
- (v) Prev.inspection date : 03/12/2022

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 Periyayagam,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
		MP review under 17(1) MCR 2016	08/02/2023

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the year 2022-23.	NIL	Exploration already carried out.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Exploration already done.
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	NIL
1e	Balance reserve as on 01/04/20	—	231150 tonnes as on 01/04/2023	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposed between local grid E1150 to E1300 N1150 to N1250.	As per proposal .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Topsoil or OB benches maintained.	NIL
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0	Only mineral production done.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
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	—	—	Satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	NIL
3b	Quantity of ROM mineral production proposed	51310 tonnes.	1900 tonnes.	Violation issued.
3c	Recovery of sailable/usable mineral from ROM production	98%	98%	NIL
3d	Quantity of mineral reject generation	1026	NIL	Violation issued.
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	High silica SiO ₂ above 20%.	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	No subgrade mineral rejection.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	mechanised method.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting proposed.	.Excavator with rock breaker used for extraction of mineral.	NIL

3k	Provision of mining machineries in mineral benches	6m bench width proposed.	L&T komastu PC200 deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes.	Overburden 4m and mineral bench 6m.	NIL
3m	Total area covered under excavation/pits	3.09 HC.	3.09HC.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0	NIL
3o	Total area put in use under different heads at the end of year	Area under mining-3.09 HC. waste dump - 0.138 HC. Infra - 0.01 HC. Roads - 0.03 HC, Greenbelt - 0.08 HC.	As per proposal only.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - ,53900 tonnes. 2019-20 - 49640 tonnes. 2020-21 - 52315 tonnes. 2021-22 - 51675 tonnes. 2022-23 - 51310 tonnes.	2018-19 -,18050 tonnes. 2019-20 - 19200 tonnes. 2020-21 - 36500 tonnes. 2021-22 - 20500 tonnes. 2022-23 - 1900 tonnes.	NIL
3q	General remarks of inspecting officers on method of mining etc.	—	—	Production on lower side. Violation issued.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal given.	NIL	NIL

4b	Location of topsoil, OB and mineral reject dumps	Local grid E1050 to E1150 N1300 to N1200	As per proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	One dump	One dump.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL	NIL
4e	Number of active and alive dumps.	One	One	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	NIL	NIL	NIL
4j	Number of settling ponds	NIL	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	Mine is in advancing stage.
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)	NIL	NIL	Topsoil already used for plantation purpose.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mine not matured for backfilling. 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).	Yes.	Submitted	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.024 HC	As per proposal.	NIL
6d	No. of saplings planted during the year	20 saplings.	25 saplings.	NIL.
6e	Cumulative no .of plants	—	around 500 plants with in outside ML area.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	Not mentioned.	100000/-	Watch and ward and watering.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	Mine workings not matured for backfilling.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	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	NIL	NIL	No waste land within ML area.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Quarterly basis.	All are within permissible limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	PMCP proposals carried out.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	Entire ROM consumed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	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 during the year 2022-23.	NIL	Topsoil already removed used for plantation purpose.
8b	Concurrent use or storage of topsoil	NIL	NIL	Topsoil already removed used for plantation purpose.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed for OB/waste.	As per proposal.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	Workings not matured for reclamation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	About 500 No's.	NIL
8g	Survival rate	Not given.	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes	Air borne dust controlled.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Green belt developed on lease boundary.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted.	AR for the year 2022-23 submitted.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	V.Annamalai - manager. S.Ravichandran - Mining engineer Muthu periyamayagam - Geologist.	Furnished under part-1
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	mine workings - 3.09 HC. waste disposal - 0.140 HC infrastructure - 0.24 HC.	Part-1, item -12
9d	Scrutiny of Annual return on afforestation	Details given	25 saplings with 90 % survival .	Part-V,item-5.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	part-V item-4.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished.	1900 tonnes	Part-VI ,item-2.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Sale value,Ex.mine price,cost of production Rs.450.	Captive use.
9h	Scrutiny of Annual return on fixed assets	Furnished.	Rs.36000/-	Part-II A,item-1.
9k	Scrutiny of Annual return on mining machineries	Details given.	Back-hoe	Part-V,item-6.

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)	27/07/2023			
MCDR17	Rule 35(2)	27/07/2023			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines