

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.JAFERALINE Mines manager
Official with
Designation
- (iv) Date of Inspection : 05/01/2020
- (v) Prev.inspection date : 30/01/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARUPPURSENAPATHY(3.88HA)**
- (b) **Registration NO.** : **IBM/7616/2011**
- (c) Category : B Manual
- (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 : NO.2/4, LAWSONS ROAD, CANTONMENT
correspondance TRICHY-620001
3. (a) Lease Number : TMN0894
- (b) Lease area : 3.88
- (c) Period of lease : 20
- (d) Date of Expiry : 19/05/2023
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 :

Geologist

Name : SRIDHAR, Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/ :
 Termination date

Manager

Name : M.JAGADESAN
 Qualification : DIPLOMA IN MINING - II CLASS CERTIFICAT
 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	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NA
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) - 284400 (211) -720000	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	----	Geology, exploration is found satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1175 -N-1075 S-1175 -S-1250	N-1175 -N-1075 S-1175 -S-1250	As per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No Top soil bench
2c	Stripping ratio or ore to OB ratio	1:0.2	1:0.2	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	No topsoil generation
2e	Quantity of overburden generation in m3	NIL	NIL	No OB during the year

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	----	Pit development is found satisfactory
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	as per the proposal
3b	Quantity of ROM mineral production proposed	21560 (2018-19)	18050	
3c	Recovery of sailable/usable mineral from ROM production	19856	18050	NIL
3d	Quantity of mineral reject generation	NIL	NA	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade is generated
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade is generated
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 other beneficiation
3j	Provision of drilling and blasting in mineral benches	Jack hammer with compressor	Jack hammer with compressor	As per proposed in SOM

3k	Provision of mining machineries in mineral benches	YES	6 m width		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height - 6M	Bench Height - 6M		NIL
3m	Total area covered under excavation/pits	3.09 H.a	3.09 H.a		NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.12		NIL
3o	Total area put in use under different heads at the end of year	3.165 H.a	3.165 H.a	NIL	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 65550 2015-16 55650 2016-17 32120 2017-18 38250 2018-19 21560 2019-20 19856	2014-15 36871 2015-16 18976 2016-17 0 2017-18 0 2018-19 8050 2019-20 19200		nil
3q	General remarks of inspecting officers on method of mining etc.	----	----		Method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No separate dump for Top soil	As per the proposal	NIL
4b	Location of topsoil, OB and mineral reject dumps	E1050-E1150 N1300-1200	E1050-E1150 N1300-1200	NIL
4c	Number of dumps within lease area and outside of lease area	ONE	ONE	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E1050-E1150 N1300-1200	E1050-E1150 N1300-1200	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	0	0	0
4g	Number of dumps established.	0	0	0
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided	Provided	Provided all along the overburden dump
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	NIL
4j	Number of settling ponds	NIL	NA	NIL
4k	Specific comments of inspecting officer on waste dump management	----	----	Waste dump management is found 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.	NIL	na	Not fully mined out
5b	Area under backfilling of mined out area	NIL	NA	Not at this stage
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NA	NIL

5e General remarks ----- ----- No back filling
of inspecting
officers on
backfilling and
reclamation etc.

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	NA	NIL
6c	afforestation done (ha).	NIL	NA	NIL
6d	No. of saplings planted during the year	20	25 NOS	NIL
6e	Cumulative no .of plants	NIL	NA	NIL
6f	Any other method of rehabilitation	NIL	NA	NIL
6g	Cost incurred on watch and care during the year	NIL	NA	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	NIL	NA	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	---	PMCP measures found satisfactory

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	19856	19200	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	No other beneficiation
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	-----	Mineral conservation & beneficiation found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To soil used for afforestation	To soil used for afforestation	NIL
8b	Concurrent use or storage of topsoil	To soil used for afforestation	Na	The occurrence of top soli used for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	E1050-E1150 N1300-1200	E1050-E1150 N1300-1200	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NA	NIL
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling carried out with Mobile water tanker	Water sprinkling carried out with Mobile water tanker	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	Aesthetic beauty in and around mines area is found good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mines Manager - V.Velmurugan-Manager Marikannan- Geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	13.40 hect	Part-I Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	0.10 hect	Part-I Sl.No.12

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	0	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	Production - 13607MT.	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex.Mine Price - Rs.350 Cost of production - Rs.226.54	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs.5000/-	PART III, Sl.No. 2 (Royalty and Rents)
9k	Scrutiny of Annual return on mining machineries	Given in the format	Jackhammer	PART - V (General Geology & Mining)

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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines