

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PT/LST-27.MDS

Mine code : 38TMN24031

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : P.Ramasamy, Mines manager and Muthu karuppan owners r
Official with
Designation
- (iv) Date of Inspection : 14/07/2023
- (v) Prev.inspection date : 08/10/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VAYALAPADI (4.75HA)**
- (b) **Registration NO.** : **IBM/563/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : PERAMBALUR
Village : VAYALAPADI
Taluka : KUNNAM
Post office : VAYALAPADI
Pin Code :
FAX No. : 0431-2670364
E-mail : dcpmaruthi@gmail.com
Phone :
- (f) Police Station : Kunnam
- (g) First opening date : 27/01/2000
- (h) Weekly day of rest : SUN
2. Address for : 23,T.V.KOIL, TRICHY -620005
correspondance
3. (a) Lease Number : TMN1159
(b) Lease area : 4.75
(c) Period of lease : 20
(d) Date of Expiry : 11/03/2019
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : S.SARAVANAN
 23,AKILA NAGAR
 TIRUVINAIKOIL, TRICHY
 TIRUCHIRAPALLI TAMIL NADU
 Phone:433006
 FAX :

Owner : S.SARAVANAN
 24,AKILA NAGAR, T.V.KOIL,
 TRICHY-5 TIRUCHIRAPALLI
 TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : R.PALANI BHARATHI,Full Time
 Qualification : BE (MINING)
 Appointment/ : 26/06/2023
 Termination date

Manager

Name : P.RAMASAMY
 Qualification : MSC (GEO)
 Appointment/ : 18/02/2023
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27/05/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31/08/2009
		Modif.approved Mining Scheme	25/04/2013
		Mining Scheme rule 12 MCDR1988	09/05/2014
		MP review under 17(1) MCR 2016	05/11/2018

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	No proposal.	NIL	Area already explored during 2014 by drilling 12 DTH bore holes.
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	mineral bearing area covered under current workings.
1e	Balance reserve as on 01/04/20	—	373244 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	E1140 to E1280 and N1080 to N1170 local grid. RL 69m to 65 m	As per proposal.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil ,mineral benches proposed.	As per proposal .	Mining is carried out in mineral benches. No topsoil generation.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	NIL
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	—	—	working in mineral benches. 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	40000 tonnes	38810	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM consumed.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
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	NIL	NIL	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 proposal for drilling and blasting.	Sovel fitted with Rock Breaker deployed.	NIL

3k	Provision of mining machineries in mineral benches	Not mentioned.	4-5 m bench width and 5-6m bench height maintained.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Yes.	NIL
3m	Total area covered under excavation/pits	3.49.2 Hc.	3.49.2 Hc.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No topsoil/OB production.
3o	Total area put in use under different heads at the end of year	Mining-3.49.2, Afforestation - 0.19.5 Hc. Others -1.06.3 Hc.	Mining-3.49.2, Afforestation - 0.19.5 Hc. Others -1.06.3 Hc.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19-88800 tonnes 2019-20-88856 tonnes 2020-21-43040 tonnes 2021-22-40560 tonnes 2022-23-40000 tonnes	2018-19 - 0 tonnes 2019-20 - 0 tonnes 2020-21 - 0 tonnes 2021-22 - 2810 tonnes 2022-23 - 38180 tonnes	NIL
3q	General remarks of inspecting officers on method of mining etc.	—	—	Mine started production after getting EC from 2021-22.

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 for separate dumps.	No dumps exist in ML area.	NIL
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	NIL

4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	No dumps exist.	NIL
4e	Number of active and alive dumps.	NIL	NIL	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	—	—	No topsoil & OB generation and no dumps exist.

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 for back filling.	The mineral not fully extracted.	Mine workings not matured for back filling.
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)	NIL	NIL	No topsoil generated.

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	No backfilling and reclamation ,mine workings are in active state.

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) .	No proposal.	NIL	NIL
6c	afforestation done (ha).	0.015 Hc.	0.2 HC	NIL
6d	No. of saplings planted during the year	17 no of neem saplings.	40 nos planted.	NIL
6e	Cumulative no .of plants	—	150 plants.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	Not mentioned.	one lakh rupees.	NIL
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	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	Pit will be converted into water reservoir at the end of the life of mine.
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 in 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)	No proposal	quarterly monitoring done.	with in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mining operations in advance state,hence no reclamation and rehabilitation done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise separation.	Entire ROM is transported to cement plant.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	Entire ROM consumed.
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	—	—	Entire ROM consumed, satisfactory.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	No topsoil generation.
8b	Concurrent use or storage of topsoil	NIL	NIL	No topsoil produced.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL

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)	17 saplings during 2022-23.	150 no of saplings planted.	NIL
8g	Survival rate	70%	70%	NIL
8h	Water sprinkling on roads to control airborne dust	No proposal.	NIL	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	sufficient plantation carried out , satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly and AR 2022-23 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Manager - P.Ramasamy. Mining engineer incharge - J.Anish. Geologist - P.Ramasamy	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Area under mining-3.49.2 Hc. Plant ,building, etc. - 0.75 Hc. Plantation - 0.195 Hc. Others - 0.988 Hc	Part-1,item-12.
9d	Scrutiny of Annual return on afforestation	Details given.	150 no 's plantation done.	Part-IV, item-5.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail given.	NIL	Part-IV,item 3.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	38180 tonnes of ROM produced against target of 40000 tonnes.	Part-VI,item-2.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Detail given.	Ex.mine price and cost of production Rs .233.20	Part-VII table.
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.500000	Part-IIA,Item-1.
9k	Scrutiny of Annual return on mining machineries	Details given.	OHM (Rockbreaker)-1 Tippers- 5	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 27(2)	27/07/2023			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines