

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PT/LST-9.MDS

Mine code : 38TMN14055

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri. Muthu karuppan , VP
Official with
Designation
- (iv) Date of Inspection : 25/12/2023
- (v) Prev.inspection date : 16/11/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VAYALAPADI (3.57.0)HECT.**
- (b) **Registration NO.** : **IBM/464/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : TIRUCHIRAPALLI
Village : VAYALAPADI
Taluka : KUNNAM
Post office : VAYALAPADI
Pin Code :
FAX No. : 0431-2670364
E-mail : dcpmaruthi@gmail.com
Phone : 0431-670364
- (f) Police Station : Kunnam
- (g) First opening date : 06/10/1999
- (h) Weekly day of rest : SUN
2. Address for : 69,GANAPATHY NAGAR
correspondance : T.V.KOVIL ST
TRICHY
3. (a) Lease Number : TMN1158
(b) Lease area : 3.57
(c) Period of lease : 20
(d) Date of Expiry : 16/09/2018
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : S.SUBRAMANIAN
 69,GANAPATHY NAGAR T.V.KOIL
 TRICHY TIRUCHIRAPALLI TAMIL
 NADU
 Phone:
 FAX :

Owner : S.SUBRAMANIAN
 69, GANAPATHY NAGAR
 T.V.KOIL ST TRICHY
 TIRUCHIRAPALLI TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : R.Dinesh,Full Time
 Qualification : BE(mining)
 Appointment/ : 31/05/2022
 Termination date

Geologist

Name : S.SUBRAMANIAM,Full Time
 Qualification : MSC(GEOLOGY)
 Appointment/ : 17/09/1998
 Termination date

Manager

Name : S.Subramanian
 Qualification : MSC(Geo0
 Appointment/ : 17/09/1998
 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
		Mining Scheme rule 12 MCDR1988	31/08/2009
		Modif.approved Mining Scheme	25/04/2013
		Mining Scheme rule 12 MCDR1988	20/05/2014
		MP modif under 17(3) MCR 2016	13/04/2018
		MP review under 17(1) MCR 2016	13/04/2018
		MP review under 17(1) MCR 2016	30/11/2022

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	No proposal during 2022-23.	NIL	Ml area explored to G1 level.
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	Ml area explored to G1 level.
1e	Balance reserve as on 01/04/20	—	As on 01/04/2023 the mineable reserves 711800 tonnes(111) category and Pre-Feasibility mineral resources (221) category-679000 tonnes.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	Total ML area already explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed in the centre of lease area in two levels RL 104-98 and RL 108-104.	Workings carried as per proposal .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	4 mineral benches proposed.	4 benches exist.	No topsoil & Overburden benches exist.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No Topsoil &OB.

2d	Quantity of topsoil generation in m3	No Topsoil generation proposed during 2022-23.	NIL	NIL
2e	Quantity of overburden generation in m3	No Overburden generation proposed during 2022-23	NIL	No Overburden generation.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	There is no proposal for development works.

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	45250 tonnes.	31370 tonnes.	Violation of Rule 11(1) pointed out.
3c	Recovery of sailable/usable mineral from ROM production	98%	100%	Entire ROM is consumed byblending with high grade mineral from other sources/mines.
3d	Quantity of mineral reject generation	2% of ROM.	Entire ROM consumed.	Entire ROM is consumed byblending with high grade mineral from other sources/mines.
3e	Grade of mineral rejects generation and threshold value declared.	> 34% CaCO ₃ .	Entire ROM consumed.	Entire ROM is consumed byblending with high grade mineral from other sources/mines.
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	NA	Entire ROM transporting to cement plant.	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	Non conventional method of mining proposed.	Rock breaker & shovel deployed for extraction of Mineral.	NIL
3k	Provision of mining machineries in mineral benches	Proposals given for deployment of Machinery.	Rock breaker & shovel deployed. Tippers used for transportation.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6m height of benches proposed.	benches maintained as per proposal.	NIL
3m	Total area covered under excavation/pits	3.22HC	3.22 Hc.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018 - 19 - 67276 tonnes. 2019 - 20 - 24000 tonnes. 2020 - 21 - 42550 tonnes. 2021 - 22 - 42000 tonnes. 2022 - 23 - 45250 tonnes.	2018 - 19 - 0 2019 - 20 - 0 2020 - 21 - 0 2021 - 22 - 3100 tonnes. 2022 - 23 - 31370 tonnes.	Violation pontedout.

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.	NIL	No Topsoil or OB generation during 2022-23.

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	No generation of Topsoil, waste and sub grade Material.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NIL	No generation of Topsoil, waste and sub grade Material.
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 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.	Mining operations continuiong, mineral not fully extracted.	NIL
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	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mining operations continuiong, mineral not fully extracted.

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).	50 saplings during 2022-23.	Afforestation done as per proposal along barrier & road.	NIL
6d	No. of saplings planted during the year	50	55	NIL
6e	Cumulative no .of plants	—	250 saplings.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NIL	Watchman appointed. Rs. 1.2 lakhs spent.	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 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	NIL
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)	Environment monitoring proposed.	quarterly monitoring done.	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mine workings continuing, mineral not fully extracted.satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	42250 tonnes.	31370 tonnes.	violation pointedout.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Entire ROM consumed.	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	—	—	No mineral conservation problem. entire ROM consumed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal to remove Topsoil during 2022-23.	NIL	NIL
8b	Concurrent use or storage of topsoil	NA	NIL	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	No dumps exist.	No topsoil,OB generation.
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)	—	250 No's plantation done.	NIL
8g	Survival rate	70%	70%	NIL
8h	Water sprinkling on roads to control airborne dust	proposed.	Water srinkling done .	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes, submitted.	Monthly and AR 2022-23 submitted .	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given. Manager - S,Subramanian Mining Engineer - R Dinesh. Geologist - S.Subramanian	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given. Under current workings - 3.22 Hc, office plant,buildings etc - 0,01 Hc. others 0.27 Hc.	NIL
9d	Scrutiny of Annual return on afforestation	Details given. 55 Nos	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given. NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given. 31370 tonnes cement grade.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given. Cost of production Rs.239.19	NIL
9h	Scrutiny of Annual return on fixed assets	Details given. Rs.400000	NIL
9k	Scrutiny of Annual return on mining machineries	Details given. Rock breaker -1 Shovel - 1 Tippers/Haulers - 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)	14/03/2024			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines