

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PT/LST-19.MDS

Mine code : 38TMN24038

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : K.Baskar, Chief Geologist.
Official with
Designation
- (iv) Date of Inspection : 28/11/2023
- (v) Prev.inspection date : 09/09/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALATHIYUR(17.58)**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TAMIL NADU**
- District : **PERAMBALUR**
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **04329-248248**
- E-mail : **icldal@eth.net**
- Phone : **04329-248201**
- (f) **Police Station** : **ALATHIYUR**
- (g) **First opening date** : **21/06/2000**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **ADANAKURICHI LST MINES**
correspondance : **P.O-DOLVOI,INDIA CEMENTS LIMITED**
: **TAMILNADU-621730**
3. (a) **Lease Number** : **TMN0654**
- (b) **Lease area** : **17.58**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **28/10/2029**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : THE INDIA CEMENTS LIMITED
 DHUN BUILDING 827, ANNA
 SALAI CHENNAI CITY TAMIL
 NADU
 Phone:044-28521526, 28521527,28572100,28572400
 FAX :044-28526311

Owner : lakshmi Aparna Sreekumar.
 m/S.India cements ,827.
 Dhun , Building ,Anna Salai
 , Chennai-2 ARIYALUR TAMIL
 NADU
 Phone: 04283-240387
 FAX : 04283-240387

Agent : Shri.T.balasubramanian
 Coromanel Tower 93,Santhome
 High road, Karpagam Ave
 R.A.Puram, Chennai 28
 CHENNAI CITY TAMIL NADU
 Phone: 044-28572100
 FAX :

Mining Engineer

Name : T.Aravind kumar,Full Time
 Qualification : BE(MINING)
 Appointment/ : 13/07/2016
 Termination date

Geologist

Name : G.BALU,Full Time
 Qualification : MSC(GEO), FCC
 Appointment/ : 07/10/2020
 Termination date

Geologist

Name : S.Nirmalkalam,Full Time
 Qualification : MSC (Geo)
 Appointment/ : 20/02/2023
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/02/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05/07/2011
	:	Mining Scheme rule 12 MCDR1988	17/04/2015
	:	MP review under 17(1) MCR 2016	11/11/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	The total mining lease area has already been explored to G1 level .
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Total 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	NIL
1e	Balance reserve as on 01/04/20	—	0.920 Million 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	Mine working Planned in between section line ML-0N to 400N, and 100E to 500E.	Mine working Planned in between section line 200N, and 100E to 500E .	Pit water logged .
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seoarate benches in Topsoil,OB and mineral proposed.	One Top Soil bench, One Overburden Bench, Three benches in Limestone.	NIL
2c	Stripping ratio or ore to OB ratio	'1:0.00	'1:0.008	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL

2e	Quantity of overburden generation in m3	NIL	412 Cu.m.	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	Pit is water logged. workings affected.

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	237451 tonnes.	107049.42 tonnes.	Lower production reported, due to low intake. Violation of rule 11(1) pointed out.
3c	Recovery of sailable/usable mineral from ROM production	225579 tonnes	104799.42 tonnes.	NIL
3d	Quantity of mineral reject generation	11872 tonnes.	2250.00 tonnes.	NIL
3e	Grade of mineral rejects generation and threshold value declared.	SiO ₂ >18.0%	SiO ₂ >18.0%	As proposed.
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	Mechanised.	Mechanised.	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	NIL	NIL	Non-conventional mining adopted.
3k	Provision of mining machineries in mineral benches	Provisions made.	HEM including surface miner deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Overburden-5m, Limestone-5m	As per proposal.	NIL
3m	Total area covered under excavation/pits	12.16.0 Ha.	12.16.0 Ha.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	'1:0.05	'1:0.008	NIL
3o	Total area put in use under different heads at the end of year	Current workings - 6.715 Hc. Already exploited and abandoned by OC workings - 1.40 Hc, reclaimed & rehabilitated - 4.405 Hc., Waste disposal - 1.66 Hc., Roads 7 buildings - 0.80 hc., Others (greenbelt) - 1.89 Hc.	Current workings - 6.715 Hc. Already exploited and abandoned by OC workings - 1.40 Hc, reclaimed & rehabilitated - 4.405 Hc., Waste disposal - 1.66 Hc., Roads 7 buildings - 0.80 hc., Others (greenbelt) - 1.89 Hc.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19=519915 tonnes. 2019-20=502332 tonnes. 2020-21=236992 tonnes. 2021-22=237406 tonnes. 2022-23=237451 tonnes.	2018-19=397194.24 tonnes. 2019-20=178567.24 tonnes 2020-21=165212.60 tonnes. 2021-22=56868.58 tonnes. 2022-23=107049.42 tonnes.	Production & development on Lowerside, Violation pointed out.

3q	General remarks of inspecting officers on method of mining etc.	—	—	Non-Conventional method of mining practiced. satisfactory.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes.	As per proposal.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Western side of ML(100-200E & ML-1-3)	As per proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	One Dump within ML & back filled.	One Dump within ML & back filled.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL.	NIL
4e	Number of active and alive dumps.	No active dump.	NIL	NIL
4f	Number of dead dumps.	One dead dump.	One dead dump.	NIL
4g	Number of dumps established.	One	One	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	Existing garland drains maintained.
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.	Backfilling proposal given.	Backfilling carriedout.	Pit is water logged.
5b	Area under backfilling of mined out area	0.80 Hc.	0.20 Hc.	Pit is water logged ,production and devlopment affected.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes.	Top soil used for plantation purpose.	NIL
5d	Total area fully reclaimed and rehabilitated	—	0.17.0	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Backfilling is carriedout, pit is waterlogged.

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) .	1.40 Hc	1.40 Hc	NIL
6c	afforestation done (ha).	0.17 Hc.	0.17 Hc.	NIL
6d	No. of saplings planted during the year	300 nos	300 nos	NIL
6e	Cumulative no .of plants	—	11493	NIL
6f	Any other method of rehabilitation	Backfilling & Afforestation	Backfilling & Afforestation	NIL
6g	Cost incurred on watch and care during the year	Rs 0.75 Lakhs	Rs 0.75 Lakhs	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	80m*10m*13m	20m*10m*2m	Less waste generation.Violation pointed out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11872 Ts	3075 Ts	Less waste generation due to less production.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.17.0 Ha/300 Saplings	0.17.0 Ha/300 Saplings	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 available with in lease 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.	environment monitoring done regularly. Quaterly report submitted.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM limestone mineral after segregation of mineral rejects sent to cement plant.	Segregation based on size and grade.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	mechanical.	NIL
7c	Different grade of mineral sorted out at mines.	Cement grade.	Cement grade.	Lumps & fines.
7d	Any beneficiation process at mines .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Entire limestone consumed in captive cement plant, No mineral conservation problem .

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	No topsoil removal.	NIL
8b	Concurrent use or storage of topsoil	No proposal.	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Separate dump maintained.	Backfilling is being done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed.	back filling done.	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed.	Simultaneous back filling practiced.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	—	11493 saplings planted sofor.	NIL
8g	Survival rate	>90%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water srinkling is being 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
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9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly and Annual return for the year 2022-23 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Mine Manager- G.Balu . Mining Engineer- T.Aravind Kumar and Geologist -S.Nirmalkalam (21.02.2022).	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given under part-1.	Covered under current workings - 6.715 Hc.,Already exploited &abandoned-1.4 Hc.,Reclaimed&rehabilitated- 4.405 Hc.,waste disposal - 1.66 Hc.,Building&roads - 0.8 Hc.,others - 1.89 Hc.	NIL
9d	Scrutiny of Annual return on afforestation	Details given under part-V,para-5.	300 no's saplings planted.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given part-V,para-3.	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided in part-VI, Para-2	107049 tonnes.	lower production &development. Violation pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given in part VI (2) and Part-VII.	Ex.Mine Price=Rs339.70 Production Cost=Rs 339.70	NIL
9h	Scrutiny of Annual return on fixed assets	Provided in part -II (A)	Rs.1300342456	Combinedly given for group mines.
9k	Scrutiny of Annual return on mining machineries	Mentioned in part -V, Sec-6	Surface Miner-1, Tipper-5	NIL

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	18/12/2023	25/01/2024				
MCDR17	Rule 33	18/12/2023	25/01/2024				

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines