

INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-18.MDS		Mine Code: 38TMN38002
	Name of the inspecting officer designation	Mr.MATIUL ISLAM Assistant Controller of Mines
	Date of inspection:	10.12.2024
	Accompanied mine official and designation	Mr. T. Santhakumar, Dy. Manager (Mines)
	Mine file No.	7446
PART-I: General Information		
S.N.	Particulars	Details
1	Name of the Mine	Anandavadi Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	110.68.5 Ha
3	Mine code	38TMN38002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/7446/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Tamilnadu Cements Corpn. Ltd., Corporate Office: 5th Floor, Aavin Illam, No.3A, Pasumpon Muthuramalingam Salai,Nandanam, Chennai-600035 e-mail: ps2mdoffice@gmail.com
6	Village	Anandavadi
7	Taluka/Mandal	Sendurai
8	District	Ariyalur
9	Pin code	621718
10	State	Tamilnadu
11	Post office	Anandavadi
12	Nearest police station	Irumbulikulrichi
13	Nearest Railway station	Ariyalur
14	Date of Grant of Mining Lease	23.09.1998
15	Date of Execution	16.03.2000
16	Date of opening of Mine	31.01.2018
17	Date of first Renewal, if applicable and its period & expiry	Under Lease Period
18	Date of second Renewal, if applicable and its period & expiry	Under Lease Period
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Under Lease Period
20	Name of the Nominated Owner with Address, phone, email, fax number and Date of appointment	Thiru. Ajay Yadav, I. A.S, Managing Director, 5th Floor, Aavin Illam, No.3A, Pasumpon Muthuramalingam Salai,Nandanam, Chennai-600035 Phone: 044-28535461 Email: ps2mdoffice@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Thiru. T. Ravichandran, Deputy General Manager (Tech), Ariyalur Cement Works, Ariyalur Cement Factory (Post), Ariyalur – 621 729 Phone: 9123547311 Date of Appointment: 25-04-2018
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	T. Santhakumar, Manager (Mines), Ariyalur Cement Works, Ariyalur – 621 729 Phone: 9047872442 Email: acwgeology@gmail.com

		Date of Appointment:28-11-2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	B.Vinoth, Asst. Manager (Mines), Ariyalur Cement Works, Ariyalur – 621 729 Phone:Mobile: 9629607166 Email: acwgeology@gmail.com Date of Appointment: 13-02-2013
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	C. Mageshkumar, Geologist, Ariyalur Cement Works, Ariyalur – 621 729 Mobile:8940792671 Email: acwgeology@gmail.com Date of Appointment: 03-09-2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	13-02-2024
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

II - OBSERVATION AND COMMENTS OF INSPECTING OFFICER

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	Nil
1c	Exploration Agency & 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 reserves as on 31.03.2024	10.23 Million Tonnes (Reserves as per last approved ROMP – proposed depletion for 2023-24)	14.02 Million Tonnes (Reported in Annual Return)	Show-cause letter issued for violation of Rule 45(7) of MCDR.
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Show-cause letter issued for violation of Rule 45(7) of MCDR.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Ref With Grid)	North Pits -1 & 2	North Pits -1 & 2	As proposed
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	0.5 m(TS) 2.5m(OB) 6m(LS)	0.5 m(TS) 2.5m(OB) 6m(LS)	As proposed
2c	Stripping ratio or ore to OB ratio	1:1.18	1:0.55	Violation pointed for deviation from development & exploitation proposals.
2d	Quantity of topsoil generation in cu.m.	73,240	25,455	Violation pointed for deviation from development proposals.
2e	Quantity of overburden generation in cu.m.	1,40,742.67	1,87,839	Violation pointed for deviation from development proposals.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Violation pointed for deviation from development proposals.

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	As proposed
3b	Quantity of ROM mineral production proposed	11,51,412 T	3,42,386.10 T	Violation pointed for deviation from exploitation proposal
3c	Recovery of salable/usable mineral from ROM production	805988.40 T	3,42,386.10 T	Violation pointed for deviation from exploitation proposal
3d	Quantity of mineral reject generation	345423.6 MTs	2,58,842.200 Mts	Violation pointed for deviation from exploitation proposal
3e	Grade of mineral reject 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 / Mechanized method adopted for segregating from ROM	Nil	Nil	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	Non-Conventional Mining by Rock breaker
3k	Provision of mining machineries in mineral benches	Rock breaker, Sieve Bucket Excavator, Taurus	Rock breaker, Sieve Bucket Excavator, Taurus	Rock breaker, Sieve Bucket Excavator, Taurus
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 6 m bench Width 8m	Bench height 6 m bench Width 8m	Suitable
3m	Total area covered under excavation/pits	23 Ha	18.32 Ha`	Within limits
3n	Ore to OB ratio for the pit/mine during the year	1:1.18	1:0.55	Violation pointed for deviation from development & exploitation proposals.
3o	Total area put in use under different heads at the end of year	73.06 Hec	27.34 Hec	Within limits
3p	Production of ROM mineral during last five-year period, as applicable	2019-20-1503250 2020-21-1501360 2021-22-1498486 2022-23-482727.160 2023-24-1151412.00	2019-20-640830 2020-21-259810.97 2021-22- 400774 2022-23-482727.160 2023-24-342386.100	Within limits
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Violation pointed for deviation from exploitation proposals.

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of TS & OB proposed	Separate dumping of TS & OB carried out	As proposed
4b	Location of topsoil, OB & mineral reject dumps (Ref to Grids)	OB Dump- 11°11'18.07"N 79°11'15.36"E Mineral Reject Dump- 11°11'12.32"N 79°11'11.54"E	OB Dump- 11°11'18.07"N 79°11'15.36"E Mineral Reject Dump- 11°11'12.32"N 79°11'11.54"E	As proposed
4c	Number of dumps within lease area and outside lease area	03 dumps within lease area	03 dumps within lease area	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Partially inside Ultimate Pit Limit	Partially inside Ultimate Pit Limit	Temporary dumps proposed to be re-handled in future
4e	Number of active & alive dumps	3	3	As proposed
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilized	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Garland drainage proposed along the dump	Garland drainage built all along the dump	As proposed
4i	Length of Retaining wall or garland drain all along dump	663m	453 m	Formation of Garland drain under process
4j	Number of settling ponds	Not Specified	2	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

Solid Waste Management – Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No backfilling proposed	No backfilling carried out	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Nil
5e	General Remarks of inspecting officer on backfilling, reclamation etc	-	-	No backfilling or reclamation was proposed or carried out

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly –Rule 23E(2)	Not specified	Not submitted	Show-cause letter issued for violation of Rule 45(7) of MCDR.
6b	i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	Afforestation done (ha)	2	Nil	Violation pointed for deviation from PCMP proposal
6d	No. of saplings planted during the year	1000	Nil	Violation pointed for deviation from PCMP proposal
6e	Cumulative no. of plants	1000	9179	Planted till the year 2022-2023
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (ii)Void available	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii)Void filled by waste/tailings	Not Proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on the backfilled area	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Proposed	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 rehabilitated (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 & buffer zone)	Not specified	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	Violation pointed for deviation from PCMP proposal

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	Nil
7c	Different grade of mineral sorted out at mines	NA	NA	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	Mineral dispatched directly to the factory

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil storage proposed	Top soil stored	As proposed
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed	Separate dumps maintained	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Eucalyptus planted under MoU with TNPL	9179 Nos planted till 2022-2023	Nil
8g	Survival rate	80%	80%	As proposed
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling done regularly	As proposed
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation pointed for deviation from PCMP proposal

Compliance of Rule 45 (2021 - 22)

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9a	Status of submission of Monthly and Annual returns	Multiple errors observed in AR	Multiple errors observed in AR	Show-cause letter issued for violation of Rule 45(7) of MCDR.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	T.SanthaKumar - (Manager) B.Vinoth - (Mining Engineer) C. Mageshkumar - (Geologist)	Given in Part I, Sl 7-9.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited and abandoned by opencast (O-C) mining - 10.54 Covered under current (O-C) Workings - 0.00 Used for waste disposal - 5.00 Occupied by plant, buildings, residential, welfare buildings and roads - 4.02 Used for any other purpose (specify) - 91.13	Area Covered under current (O-C) Workings was found mis-reported	Show-cause letter issued

9d	Scrutiny of Annual return on Afforestation	Number of trees planted during the year 1000 Survival rate in percentage 80 Total no. of trees at the end of the year 1000	False information furnished	Show-cause letter issued
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	23,60,699	False information furnished	Show-cause letter issued
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stock-56,118.85 MTs	Given in Part VI, Sl 2 & 3(ii).	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price= Rs.344.06/- Production cost=Rs.441.80/-	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets* (₹ 10004119)	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	SHOVEL (HYDRAULIC) 0.900 CUM 5 Non Electrical Opencast TIPPER 2.000 CUM 43 Non Electrical Opencast WATER TANKER 4000.000 LITRE 2 Non Electrical Opencast JEEP/TRACTOR 0.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 1.200 6 Non Electrical Opencast	Given in Part V, Sl 6	Nil

Details of violations observed during current inspection and compliance position of violations pointed out					
Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	07/01/2025		45(7)	07/01/2025	

Date:

(Matiul Islam)

Indian Bureau of Mines