

**INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-66.MDS		Mine code 38TMN38029
(i)	Name of the inspecting officer, designation	Shri Matiul Islam, Asst. Controller of Mines
(ii)	Date of inspection:	15.11.2024
(iii)	Accompanied mine official and designation	N.JAYA BHARATA REDDY, GENERAL MANAGER(MINES)/K.RATHINAVEL,SR.MANAGER(MINES)
Part I - General Information		
1	Name of the Mine	Adanakurichi Limestone Mine
2	Total Lease Area (ha) with breakup of Non-forest and forest land	80.26.0 Ha (Non forest Land)
3	Mine code	38TMN 38029
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/613/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. The India Cements Limited, Coromandal Towers, 93, Santhome High Road, Karapagam Avenue, Raja Annamalai Puram, Chennai - 600 028 Phone No: 044-28572100 Fax No: 04329 248248 Email id: palanikumaresan.m@indiacements.co.in
6	Village	Adanakurichi
7	Taluka/Mandal	Sendurai
8	District	Ariyalur
9	Pin code	621730
10	State	TamilNadu
11	Post office	Cement Nagar
12	Nearest police station	Thalavoi
13	Nearest Railway station	Echangadu
14	Date of opening of Mine	06.01.1996
15	Weekly day of rest	Scattered
16	Period of Lease	50 Years (as per MMDR Amendment)
17	Lease Expiry	16.06.2025/16.06.2045 (as per MMDR Amendment)
18	Name of the Nominated Owner with Address, phone, email, fax number and Date of appointment	V.M.Mohan The India Cements Limited Coromandal Towers, 93,Santhome High Road, Karpagam Avenue,Chennai-600 028 044-28572100 Fax-044-28526311 mines@indiacements.co.in Date of appointment:01.11.2023
		T.Balasubramanian The India Cements Limited

19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-04329-248221 Email id: balasubramanian.t@indiacements.co.in Fax:04329-248248 Date of appointment:21.02.2013
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	K.Rathinavel The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-9942994637 Email id: rathinavel.k@indiacements.co.in Fax:04329-248248 Date of appointment: 01.07.2024
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	M.Satish babu DME(Mining) ,SCC& Experience-20 Years The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-9952201468 Email id: sateeshbabu.m@indiacements.co.in Fax:04329-248248 Date of appointment: 20.12.2021
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Appointed Geologist: S.Nirmalkalam M.Sc(Geology) ,& Experience-7 Years The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-7904024416 Date of appointment:01.11.2024
23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/ALR/LST/ROMP-1666.MDS ,Dated:03.11.2021
24	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	This approval is subjected to the extension of the validity of the mining lease by the State government as per Section 8A(5) of MMDR Act,2015(Amended).
25	Mineral(s) granted in lease and proved for mining	Limestone & Kankar
26	Method of Mining(Open cast,Underground)	Opencast
27	Category (Fully Mechanised, Others or Manual)	"A" category Fully Mechanised
28	Captive/Non Captive	Captive Purpose

EXPLORATION

SL.NO	ITEMS	PROPOSED	ACTUAL	REMARKS
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	35nos expository boreholes drilled with total meterage of 1130 m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Nil
1e	Balance reserve as on 01/04/2024	4.369 Million tonnes	4.483 Million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Geology & Exploration of the lease were found satisfactory

DEVELOPMENT				
2a	Location of development w.r.t.lease area	Between section line 700E-1100E and 200N -1000N. RL 28 to25 and 27 to24 m .	Between section line 700E-1100E and 200N -1000N. RL 31 m .	Within proposed area
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, One bench for Top Soil/Overburden Bench, three benches for limestone.	Yes, One bench for Top Soil/Overburden Bench, three benches for limestone.	Separate bench for topsoil /overburden and mineral are being maintained.
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.03	Violation pointed out for deviation from development proposal
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	8458.7	Violation pointed out for deviation from development proposal
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Violation pointed out for deviation from development proposal
EXPLOITATION				
3a	Number of pit proposed for production	One , 690m*420m* 32m	One , 690m*420m* 28m	Only one pit, as proposed.
3b	Quantity of ROM mineral production proposed	384192 Ts	251281.18 Ts	Violation pointed out for deviation from exploitation proposal
3c	Recovery of sailable/usable mineral from ROM production	345773 Ts (90%)	231826.18Ts (92%)	Violation pointed out for deviation from exploitation proposal
3d	Quantity of mineral reject generation	38419 Ts/16704 m3 (10%)	19455 Ts/8458.70 m3 (8%)	Violation pointed out for deviation from exploitation proposal
3e	Grade of mineral rejects generation and threshold value	SiO2 >18.0%	SiO2 >18.0%	As proposed
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical Method	Mechanical Method	As per plan
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	Beneficiation study was done in Initial period.
3j	Provision of drilling and blasting in mineral benches	No	No	Drilling and blasting not carried out.
3k	Provision of mining machineries in mineral benches	Back hoe-1, Rock breaker-1, Tipper-1, Dumper-2,Water Tanker-1	Back hoe-1, Rock breaker-1, Tipper-1, Dumper-2,Water Tanker-1	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil/Overburden-5m, Limestone-5m	Top soil/Overburden-5m, Limestone-5m	As proposed
3m	Total area covered under excavation/pits	48.51.5 ha	48.51.5 ha	Covered under current workings along with area already exploited and abandoned as well as reclaimed and rehabilitated
3n	Ore to OB ratio for the pit/mine during the year.	1:0.0	1:0.03	Violation pointed out for deviation from development proposal
3o	Production of ROM mineral during the last five year period as applicable	2019-20=591726 Ts 2020-21=729993 Ts 2021-22=596213 Ts 2022-23=388700 Ts 2023-24=384192 Ts	2019-20=293279.44 Ts 2020-21=305663.88 Ts 2021-22=231568.02 Ts 2022-23=352377.60 Ts 2023-24=251281.18 Ts	Within limits

3p	Area used in different purpose	Area under mining=48.31.3, Overburden dump- 1.55.5, Mineral storage - 0.51.0, Infrastructure - 2.22.0 Roads - 3.86.0, Protective - 1.84.5, Greenbelt - 1.88.0	Area under mining=48.31.3, Overburden dump- 1.55.5, Mineral storage - 0.51.0, Infrastructure - 2.22.0 Roads - 3.86.0, Protective - 1.84.5, Greenbelt - 1.88.0	As proposed
3q	General remarks of inspecting officers on method of mining etc.			
SOLID WASTE MANAGEMENT-DUMPING				
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Mineral Rejects proposed to be backfilled	Mineral Rejects used for Backfilling	As proposed
4b	Location of topsoil, OB and mineral reject dumps	Waste dump-Western side	Waste dump-Western side	As proposed
4c	Number of dumps within lease area and outside of lease area	One Dump,Within ML	One Dump,Within ML	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of UPL	Out side of UPL	As proposed
4e	Number of active and alive dumps.	Nil	Nil	As proposed
4f	Number of dead dumps.	One	One	As proposed
4g	Number of dumps established.	One	One	Stabilised with plantations.
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Garland drain and earthen bund are already made for a length of 1500 m.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Garland drain and earthen bund are already made for a length of 1500 m.
4j	Number of settling ponds	No proposal	Nil	Exists 2 nos in Western side.
4k	Special comments of inspecting officer on waste dump	-	-	Waste dump management was found satisfactory.
SOLID WASTE MANAGEMENT-BACKFILLING				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after full extraction of mineral from mined out area.	Backfilling carried out after full extraction of mineral from mined out area.	As proposed
5b	Area under backfilling of mined out area	0.12.0 Ha	0.06.0 Ha	Violation pointed out for deviation from backfilling proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	Nil
5d	Total area fully reclaimed and rehabilitated	0.20.0 Ha	0.20.0 Ha	Afforested
5e	General remarks of inspecting officers on backfilling and reclamation etc	-	-	Violation pointed out for deviation from backfilling proposal
PROGRESSIVE MINE CLOSURE PLAN				
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes, submitted to IBM	Nil
6b	Area available for rehabilitation (ha) .	0.20.0 Ha	0.20.0 Ha	As proposed
6c	Afforestation done (ha).	0.20.0 Ha	0.20.0 Ha	As proposed
6d	No. of saplings planted during the year	200 nos	200Nos	As proposed
6e	Cumulative no .of plants	17830 Nos.	17830 Nos	As proposed
6f	Any other method of rehabilitation	Backfilling & Afforestation	Backfilling & Afforestation	As proposed
6g	Cost incurred on watch and care during the year	Rs 3.80 Lakhs	Rs 3.80 Lakhs	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx Bx D)	0.12.0 Ha	0.06.0 Ha	Violation pointed out for deviation from backfilling proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.12.0 Ha	0.06.0 Ha	Deviation due to lithological variation of the formation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	200 nos	200 nos	As proposed
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.	Not applicable	Not applicable	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	Periodic monitoring carried out
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation pointed out for deviation from PMCP proposals
MINERAL CONSERVATION				
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	As proposed
7b	Method of gradewise mineral sorting i.e. manual or mechanical.	Mechanical Method	Mechanical Method	As proposed
7c	Different grade of mineral sorted out at mines.	Lumps and fines	Lumps and fines	As proposed
7d	Any beneficiation process at mines	Not applicable	Not applicable	Not applicable
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	No issues were observed with mineral conservation. No beneficiation was proposed or carried out.
ENVIRONMENT				
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Mineral Rejects proposed to be backfilled	Mineral Rejects backfilled into mined out benches	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original	Mineral Rejects proposed to be backfilled	Mineral Rejects backfilled into mined out benches	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mineral Rejects proposed to be backfilled	Mineral Rejects backfilled into mined out benches	As proposed
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	17630+200	17830	Cumulative afforestation

8g	Survival rate	>90%	>90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area found satisfactory.
COMPLIANCE UNDER RULE-45				
9a	Status of submission of Monthly and Annual returns	Details given in AR	Comments of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager: R.Balamurugan (01.08.2023), Mining Engineer:M.Sateeshbabu (20.12.2021) & Geologist:K.Mani (15.07.2020)	Presently, Mine Manager: K.Rathinavel (01.07.2024), Mining Engineer: M.Sateeshbabu (20.12.2021) & Geologist:S.Nirmalkalam (01.11.2021)	Notice of appointment duly received
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already Exploited and abandoned by Opencast mining = 6.00.0 (ii) Covered under (O-C) workings = 34.52.5 (iii) Reclaimed-rehabilitated = 7.99.0 (iv) Used for waste disposal = 1.55.5 (v) Occupied by plant ,buildings, residential, welfare building and roads = 6.08.0 (vi) Used for any other purpose (Specify) Green belt & Peripheral bund =9.15.5 (vii) work done under progressive mine closure plan during the year - 0.00.0	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year -700	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	19455 Ts	Given in Part VI, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock - 8574.66 tonnes	Given in Part VI, Sl 2 & 3(ii)	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price=Rs.352.75, Production cost=Rs=352.75	Given in Part VI, Sl 3 (ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	GFA - Rs 1,29,21,73,040/-	Given in Part II A	Jointly for 7 Leases
9i	Scrutiny of Annual return on mining machineries	Back hoe-1, Rock breaker-1, Tipper-1, Dumper-2,Water Tanker-1. pump-1	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	Issued on	Compliance on	Issued on	Compliance on
11(1)	17-12-2024			
Date:				(Matiul Islam)

