

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

**FMCP INSPECTION REPORT**

**Chennai Regional Office**

<b>Mine file No. TN/ALR/LST-43.MDS</b>		<b>Mine code 38TMN24043</b>
(i)	Name of the inspecting officer, designation	Shri Matiul Islam, Asst. Controller of Mines, Indian bureau of Mines, Chennai & Shri K.Ramajayem, Asst. Director (Geology & Mining), Government of Tamilnadu.
(ii)	Date of inspection:	13.11.2024
(iii)	Accompanied mine official and designation	N.JAYA BHARATA REDDY, GENERAL MANAGER (MINES)
<b>Part I - General Information</b>		
1	Name of the Mine	Pudupalayam Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	29.29.5 Ha (Non forest Land)
3	Mine code	38TMN24043
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	Pudupalayam
7	Taluka/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621704
10	State	TamilNadu
11	Post office	Reddipalayam
12	Nearest police station	Reddiapalayam
13	Nearest Railway station	Ariyalur
14	Date of opening of Mine	02-08-2004
15	Weekly day of rest	Scattered
16	Period of Lease	50 Years (as per MMDR Amendment)
17	Lease Expiry	08-02-2039
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

19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	T.Balasubramanian The India Cements Limited 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	N.Jaya Bharata Reddy The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-04329-248206/9942994775 Email id: jayabharatareddy.n@indiacements.co.in Fax:04329-248248 Date of appointment:11.08.2023
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	N.Jaya Bharata Reddy B.E(Mining) ,FCC& Experience-29 Years The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-04329-248206/9942994775 Email id: jayabharatareddy.n@indiacements.co.in Fax:04329-248248 Date of appointment:11.08.2023
22	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	S. Nirmal Kalam M.Sc. (Geology) - 6 years The India Cements Limited Dalavoi Works Cement Nagar-Post,Ariyalur -District, PIN- 621730 Phone-04329-248206/9942994775 Date of appointment:10.05.2023
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/MMP-2096.MDS ,Dated:27/07/2023 & FMCP-TN/ALR/LST/MMP-2096.MDS(FMCP) ,Dated:05.10.2023
24	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	The yearly report in the prescribed format indicating the extent of protective and rehabilitative works carried out as envisaged in the approved Final Mine closure plans as required under Rule 26(2) of Mineral Conservation and Development Rules,2017 shall be submitted before 1st July of every year upto the final closure.
25	Mineral(s) granted in lease and proved for mining	Limestone
26	Method of Mining(Opencast,Underground)	Opencast
27	Category (Fully Mechanised, Others or Manual)	"A" category Fully Mechanised
28	Captive/Non Captive	Captive Purpose

**II - OBSERVATION AND COMMENTS OF INSPECTING OFFICER**

**EXPLORATION**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	38 Exploration borehole drilled with total meterage of 481.06 m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	Exploration carried out by India cements team.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Not required
1e	Balance reserve as on 01/04/2024	0.00 Million tonnes	0.00 Million tonnes	Limestone Exhausted
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Mineral is fully exhausted in the lease. FMCP has been implemented.

**DEVELOPMENT**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
2a	Location of development w.r.t.lease area	No proposal	No proposal	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes , one topsoil bench, one overburden bench, two ore benches.	Yes , one topsoil bench, one overburden bench, two ore benches.	Separate bench for topsoil and overburden maintained.
2c	Stripping ratio or ore to OB ratio	NA	NA	During FY 2024-25
2d	Quantity of topsoil generation in m3	Nil	Nil	During FY 2024-25
2e	Quantity of overburden generation in m3	Nil	Nil	During FY 2024-25
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development & exploitation of the pit was found satisfactory. FMCP has been implemented.

**EXPLOITATION**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
3a	Number of pit proposed for production	One , 450m*480m* 16m	One , 450m*480m* 16m	Only one pit, as proposed.
3b	Quantity of ROM mineral production proposed	Nil	Nil	During FY 2024-25
3c	Recovery ofailable/usable mineral from ROM production	Nil	Nil	During FY 2024-25
3d	Quantity of mineral reject generation	Nil	Nil	During FY 2024-25
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.	No	No	Nil
3j	Provision of drilling and blasting in mineral benches	No	No	Nil
3k	Provision of mining machineries in mineral benches	Nil	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil-5m, Overburden-5m, Limestone-5m	Top soil-5m, Overburden-5m, Limestone-5m	Sustained
3m	Total area covered under excavation/pits	18.10.0 ha	18.10.0 ha	As proposed
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	Nil
3o	Production of ROM mineral during the last five year period as applicable	2019-20=187020 Ts 2020-21=104448 Ts 2021-22=122588 Ts 2022-23=98204 Ts 2023-24=146388 Ts	2019-20= 64216.46 Ts 2020-21= 0.00 Ts 2021-22=17250.84 Ts 2022-23=66860.14 Ts 2023-24=131066.84 Ts	Within limits
3p	Area used in diiferent porpose	Area under mining-18.10.0 Overburden dump- 4.11.5, Mineral storage - 0.00.0 Roads - 0.15.0, Protective - 1.72.0 Greenbelt - 1.25.0	Area under mining-18.10.0, Overburden dump- 4.11.5, Mineral storage - 0.00.0 Roads - 0.15.0, Protective - 1.85.0 Greenbelt - 1.25.0	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory. FMCP has been impemented.

**SOLID WASTE MANAGEMENT-DUMPING**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	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	One Dump within ML	One Dump within ML	Stablised with plantations.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of UPL	Out side of UPL	Stablised with plantations.
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	One	One	Plantation completed.
4g	Number of dumps established.	One	One	Stablised with plantations.
4h	Whether Retaining wall or garland drain all along dumps are there.	FY 2023-24 - Garland Drain & Earthern Bund Proposed FY 2024-25 - Nil	FY 2023-24 - Garland Drain & Earthern Bund Made FY 2024-25 - Nil	As Proposed
4i	Length of Retaining wall or garland drain all along dumps	FY 2023-24 - 450m Earthern Bund & 434m Garland Drain Proposed FY 2024-25 - Nil	FY 2023-24 - 450m Earthern Bund & 434m Garland Drain Made FY 2024-25 - Nil	Total 450m Earthern Bund & 1569m garland drains made
4j	Number of settling ponds	No proposal	Nil	2 settling ponds already existing
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

SOLID WASTE MANAGEMENT-BACKFILLING				
SL.NO	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	Nil	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	Reclamation FY 2023-24 - 0.38.0 Ha & FY 2024-25 - Nil Rehabilitation FY 2023-24 - 0.20.0 Ha & FY 2024-25 - 2.00.0 Ha	Reclamation FY 2023-24 - 0.20.0 Ha & FY 2024-25 - Nil Rehabilitation FY 2023-24 - 0.20.0 Ha & FY 2024-25 - 2.00.0 Ha	Total 2.20.0 Ha Rehabilitated in FMCP period
5e	General remarks of inspecting officers on backfilling and reclamation etc	-	-	Backfilling & Rehabilitation was found satisfactory.

**PROGRESSIVE MINE CLOSURE PLAN**

SL.NO	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	Submitted along with AR
6b	Area available for rehabilitation (ha) .	Rehabilitation area FY 2023-24 - 0.20.0 Ha & FY 2024-25 - 2.00.0 Ha	Rehabilitation area FY 2023-24 - 0.20.0 Ha & FY 2024-25 - 2.00.0 Ha	Total 2.20.0 Ha Reclaimed and rehabilitated in FMCP period
6c	Afforestation done (ha).	Afforestation FY 2023-24 - 0.20.0 Ha FY 2024-25 - 2.00.0 Ha	Afforestation FY 2023-24 - 0.20.0 Ha FY 2024-25 - 2.00.0 Ha	Total 2.20.0 Ha Reclaimed and rehabilitated in FMCP period
6d	No. of saplings planted during the year	FY 2023-24 -150 Nos & FY 2024-25 - 1100 Nos	FY 2023-24 -150 Nos & FY 2024-25 - 1175 Nos	As proposed & 75 Nos of additional saplings Planted
6e	Cumulative no .of plants	8800 Nos.	8875 Nos	As proposed & 75 Nos of additional saplings Planted
6f	Any other method of rehabilitation	Proposed Fencing FY 2023-24- 630 m & FY 2024-25 - 1100 m	Fencing made FY 2023-24-630 m & FY 2024-25 - 1100 m	Totally 1730m of Fencing erected all along the Mining lease boundary/mining pit
6g	Cost incurred on watch and care during the year	FY 2023-24 - 2.0 Lakhs FY 2024-25 - 3.0 Lakhs	FY 2023-24 - 2.0 Lakhs FY 2024-25 - 3.0 Lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D)	FY 2023-24 - 0.38.0 Ha (195m x 19m x 7m) FY 2024-25 - Nil	FY 2023-24 - 0.20.0 Ha (165m x 20m x 7m) FY 2024-25 - Nil	Less backfilling than proposed due to less generation of waste than proposed due to lithological variations. Balance area added to proposed water reservoir.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	FY 2023-24 - 46893 Ts FY 2024-25 - Nil	FY 2023-24 - 32015.73 Ts FY 2024-25 - Nil	Less backfilling than proposed due to less generation of waste than proposed due to lithological variations. Balance area added to proposed water reservoir.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	FY 2023-24 -0.20.0 Ha FY 2024-25 - 0.94.0 Ha	FY 2023-24 -0.20.0 Ha FY 2024-25 - 0.94.0 Ha	Planted during FMCP Period

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	13.96.0 Ha Water reservoir formation proposed	14.14.0 Ha Water reservoir formed	Balance non-backfilled area also converted to water reservoir during FMCP Period
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	NA	NA	No waste land available within lease
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	No waste land available within lease
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	No waste land available within lease
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	FMCP has been implemented.

**MINERAL CONSERVATION**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Nil
7b	Method of gradewise mineral sorting i.e. manual or mechanical.	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines	Not applicable	Not applicable	Not applicable
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	-	-	Mineral has been fully exhausted. FMCP has been implemented.

**ENVIRONMENT**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
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	Backfilling proposed in FY 2023-24	Backfilling completed in FY 2023-24	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling and afforestation proposed	Backfilling & afforestation completed	As proposed

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	8800 nos cumulative afforestation proposed	8875 nos cumulative afforestation achieved	As proposed
8g	Survival rate	>90%	>90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkler deployed	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area was found satisfactory.

**COMPLIANCE UNDER RULE-45**

SL.N O	ITEMS	PROPOSALS	ACTUAL WORK	REMARKS
9a	Status of submission of Monthly and Annual returns	Returns submitted	Returns submitted	Details furnished as per annual return for the year 2023-24.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager:N.Jaya Bharata Reddy, Mining Engineer:N.Jaya Bharata Reddy & Geologist:S.Nirmal Kallam	Provided in part-I	Nil
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 = 14.140 (ii) Covered under (O-C) workings = 0.000 (iii) Reclaimed-rehabilitated = 3.960 (iv) Used for waste disposal = 4.115 (v) Occupied by plant ,buildings, residential, welfare building and roads = 0.200 (vi) Used for any other purpose (Specify) Green belt & Peripheral bund = 3.100 (vii) work done under progressive mine closure plan during the year = 0.000	Provided in part-I, Sl.No-12 (i) Already Exploited and abandoned by Opencast mining = 14.140 (ii) Covered under (O-C) workings = 0.000 (iii) Reclaimed-rehabilitated = 3.960 (iv) Used for waste disposal = 4.115 (v) Occupied by plant ,buildings, residential, welfare building and roads = 0.200 (vi) Used for any other purpose (Specify) Green belt & Peripheral bund = 3.100 (vii) work done under progressive mine closure plan during the year = 0.000	Nil
9d	Scrutiny of Annual return on afforestation	Area=0.020.0 Ha, Nos-150	Area=0.020.0 Ha, Nos-150, Provided in part-V, Para-5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	29249 Ts	Actual=13936.80 Ts ,Provided in part-V, of 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM=146388 Ts	Actual ROM=131066.84 Provided in part-VI, Para-2	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price=Rs.212.00, Production cost=Rs=212.00	Provided in part VI-3(ii) and Part-VII. Ex.Mine Price=Rs.212.00 Production Cost=Rs.212.00	Nil
9h	Scrutiny of Annual return on fixed assets	Gross Fixed Assets: Rs 1,29,21,73,040/-	Given in Part II A Capital Structure jointly for 7 leases	Nil
9i	Scrutiny of Annual return on mining machineries	Shovel /Rock breaker-1, Tipper-2,	Mentioned in part -V, Sec-6	Nil

Date:13.11.2024

*K.Ramajayem*  
13/11/2024

**K.Ramajayem**  
Asst. Director (Geology & Mining)  
Ariyalur District, Govt. of TamilNadu

*Matiul Islam*  
13/11/24

**Matiul Islam**  
Asst. Controller of Mines  
Indian Bureau of Mines, Chennai

**Assistant Director  
Geology and Mining,  
Ariyalur.**