

**PUDUPALAYAM NORTH - MCDR INSPECTION REPORT**

	Name of the inspecting officer, designation	Sri.G.Sornadurai Kannan, Sr.Mining Geologist, Indian Bureau of Mines,
	Date of inspection:	12/04/2024
	Accompanied mine official and designation	Mr.A.Rambabu, Mine Manager & Mr.P.Senthamilselvan, Geologist
Mine file No. TN/ALR/LST-7.MDS		
<b>S.N.</b>	<b>Particulars</b>	
1	Name of the Mine	Pudupalayam North Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	26.07.5 Ha (Non forest Land)
3	Mine code	38TMN38010
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Pudupalayam North Limestone Mine,
		M/s. The Ramco Cements Limited,
		Govindapuram Works,
		Sendurai Road, Ariyalur District.
		Phone No: 044-28477504
		Fax No: 28478676
		Email id: magesh@ramcocements.co.in
6	Village	Pudupalayam & Periyagalur
7	Taluka/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621713
10	State	TamilNadu
11	Post office	V.Kaikatti
12	Nearest police station	Kairulabad
13	Nearest Railway station	Ariyalur
14	Date of Grant of Mining Lease	1/2/2007
15	Date of Execution	12/17/2008
16	Date of opening of Mine	8/1/2009
17	Date of first Renewal, if applicable and its period & expiry	Nil
18	Date of second Renewal, if applicable and its period & expiry	Nil
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
20	Name of the Nominated Owner with Address, phone, email, fax number and Date of appointment	Shri.P.R. Venketrana Raja,
		The Ramco Cements Limited,
		Auras Corporate Centre, No:98A,
		5 <sup>th</sup> Floor, Mylapore, Chennai.
		Telephone No: 044-28478666
		Fax No: 28478676
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Madhusudan Kulkarni, Sr.Vice President (Mfg.)
		M/s. The Ramco Cements Limited,
		Govindapuram Works,

		Sendurai Road, Ariyalur.
		Phone No: 044-28477504
		Fax No: 28478676
		<a href="mailto:madhusudan.k@ramcocements.co.in">madhusudan.k@ramcocements.co.in</a>
		Date of Appointment: 16/09/2019
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri.A.Rambabu, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 Fax No: 28478676 <a href="mailto:minesary@ramcocements.co.in">minesary@ramcocements.co.in</a> Date of Appointment: 01/07/2019
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri.E.Thangakumar, Diploma in Mining, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 <a href="mailto:minesary@ramcocements.co.in">minesary@ramcocements.co.in</a> Date of Appointment: 20/01/2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	S.Arun (Geologist) M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Mobile No: 9788859706 <a href="mailto:sarun@ramcocements.co.in">sarun@ramcocements.co.in</a> Date of Appointment: 01/04/2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Approval date: 07/08/2006 Modification of Mining Plan : 11/08/2011 Scheme of Mining : 10/04/2015 Modification to the Approved Mining Plan: 24/10/2016 Review of Mining Plan: 30/10/2018 Modification to the Approved Mining Plan: 18/08/2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modification to the Approved Mining Plan: 09/11/2023
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	"A" category Fully Mechanised
30	Captive/Non Captive	Captive Purpose

**SCIENTIFIC MINING**

Sl. No	Item	Proposals	Actual Work	Remarks
<b>A. EXPLORATION:-</b>				
1a	Backlog of Previous Year	No Boreholes has been proposed during 2022-2023.	No Boreholes has drilled during 2022-2023.	No Boreholes has drilled during 2022-2023.
1b	Exploration Over Lease area for Geological Axis 1 or 2	2 Nos of Boreholes has proposed during 2023-2024 in the lease area.	2 Boreholes has been drilled during 2023-2024	Entire lease area 26.075 hectares are under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	0.20 Lakhs has been proposed.	0.25 Lakhs has been spend towards the exploration	So far 12 boreholes have been drilled in the lease.
1d	Balance area to be explored to bring Geological axis 1 or 2	Entire area has been explored under G-1	Entire area has been explored under G-1	Entire area has been explored under G-1 category with 200m X 200m grid interval.
1e	Balance reserves as on 01/04/2023	Limestone as on 01.04.2024 Proved Mineral Reserves (111) = Nil Pre-Feasibility Mineral Resources (221) = 5870760 tons.	Limestone as on 01.04.2024 Proved Mineral Reserves (111) = 109 tons Pre-Feasibility Mineral Resources (221) = 5870760 tons.	Mineral exhausted as per the MMP. Now FMCP has been submitted.
1f	General remarks of inspecting officer on geology, exploration etc.	It is part of Cretaceous formations	The formation is belongs to Niniyur stage. The deposit is un-conformably overlain by Cuddalore sandstone.	Limestone beds carry inclusions of marl, clay & sand stone.

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<b>B. DEVELOPMENT:-</b>				
2a	Location of development w.r.t. lease area	During 2023-2024, working proposal was in between section AA to BB.	Working was carried out as per proposal.	Nil
2b	Separate benches in topsoil, overburden and mineral	Topsoil – 1 Bench Overburden – 3 Benches Minerals – 4 Benches	Topsoil – 1 Bench Overburden – 3 Benches Minerals – 4 Benches	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.07	1 : 0.07	Nil

2d	Quantity of topsoil generation in m3	No Topsoil proposal	Nil	Nil
2e	Quantity of overburden generation in m3	During 2023-2024 it is proposed to remove 30820 m3.	29750 m3 of waste generation in 2023-2024	OB is used for Backfilling.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No Topsoil proposal	29750 m3 of waste has generated against 30820 m3 of proposal during 2023-2024.	Mineral exhausted as per the MMP. Now FMCP has been submitted.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>C. EXPLOITATION:-</b>				
3a	Number of Pit Proposed for Production	Production was proposed in Pit-1	Productions are carried out as per proposal in Pit-1	Mineral has been exhausted
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 432800 tons during 2023-2024.	Achieved ROM Production is 432691 tons during 2023-2024.	Nil
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100% Recovery	100% Recovery	Entire ROM is useable and sent to crusher.
3d	Quantity of mineral reject generation	There is no Mineral Reject generation	There is no Mineral Reject generation	Nil
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Nil	Nil
3f	Quantity of sub-grade mineral generation	No Sub Grade Generation	No Sub Grade Generation	Nil
3g	Grade of sub-grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Entire ROM is useable and sent to crusher.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Beneficiation Study is Proposed	Nil	Outside the lease area beneficiation plant is present.
3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting are proposal.	Drilling & Blasting are done as per proposal	Surface miner & Rock breakers are used for

				production. Adopted Non-conventional method by engaging Xcentric Ripper
3k	Provision of mining machineries in mineral benches	Surface Miner Excavators Rock Breakers Tippers Shovel Dozer	As per proposal the machineries are there during inspection.	As per plan.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2023-2024, Bench height of 8m was proposed in Mineral.	As per proposal benches are formed.	Nil
3m	Total area covered under excavation/pits	7.10 hect area is proposed for Pit during 2023-2024	7.10 hect areas are under Pit only.	Nil
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.07	1 : 0.07	Nil
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2024. Mines = 7.10 hect Road = 0.60 hect	Land use Pattern as on 01.04.2024. Mines = 7.10 hect Road = 0.60 hect	Nil
3p	Production of ROM mineral during last five-year period, as applicable	2023-2024 = 432800 tons 2022-2023 = 101500 tons 2021-2022 = 99980 tons 2020-2021 = 600900 tons 2019-2020 = 1000200 tons	2023-2024 = 432691 tons 2022-2023 = 101400 tons 2021-2022 = 99959 tons 2020-2021 = 372176 tons 2019-2020 = 744618 tons	Nil
3q	General remarks of inspecting officer on method of mining etc.	Production was proposed in Pit-1	Achieved ROM Production is 432691 tons during 2023-2024 against proposal of 432800 tons.	Mineral exhausted as per the MMP. Now FMCP has been submitted.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b>				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	There is no proposal for dumping of OB during 2023-2024	As per proposal the dumping are not carried out.	Nil
4b	Location of Topsoil, OB and Mineral Rejects Dumps	There is no proposal for dumping of OB during 2023-2024	As per proposal the dumping are not carried out.	Nil
4c	Number of Dumps within Lease & Outside Lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	Nil
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	No Proposal	Nil	Nil
4e	Number of Active & Alive Dumps	No Proposal	Nil	Nil

4f	No of Dead Dumps	No Proposal	Nil	Nil
4g	No of Dumps Established	No Dumps have been established.	No Dumps have been established.	Nil
4h	Whether Retaining Wall or Garland drain along Dumps are there	Garland drainage is proposed.	As per proposal Garland drain are constructed.	Garland drainage has made along the safety barrier.
4i	Length of Retaining Wall or Garland drain along Dumps	700m of Garland drainage is proposed.	700m of Garland drainage has been constructed.	Garland drainage has made along the safety barrier.
4j	No of Settling tanks	Two proposal	2 No of settling tanks has made.	Existing settling ponds are desilted.
4k	Specific comments of inspecting officer on waste dump management	700m of Garland drainage has made along the safety barrier.	Existing settling ponds are desilted.	Mineral exhausted as per the MMP. Now FMCP has been submitted.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b>				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Backfilling has proposed in the mineral extracted area in section BB-CC during 2023-2024	As per proposal backfilling has done during 2023-2024	Nil
5b	Area under backfilling of mined out area	0.75 hect during 2023-2024	Achieved 0.58 hect	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling has proposed in the mineral extracted area in section CC during 2023-2024	As per proposal backfilling has done during 2023-2024	Mineral exhausted as per the MMP. Now FMCP has been submitted.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b>				

6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	It should be on or before 1 <sup>st</sup> July every year.	Submitted for the year 2022-2023.	Submitted within time limit. Yet to submit for the year 2023-2024.
6b	Management of worked/ mined out benches i) Area available for rehabilitation (ha)  ii) Afforestation done (ha)  iii) No. of saplings planted during the year  iv) Cumulative no. of plants  v) Any other specific method of rehabilitation  vi) Cost incurred on watch & care during the year	i) 0.75 hectares  ii) 0.50 hectares  iii) 1000 saplings  iv) 19000 saplings  v) No Proposal  vi) No Proposal	i) 0.58 hectares  ii) 0.58 hectares  iii) 1000 saplings  iv) 45000 saplings  v) Nil  vi) 7.00 Lakhs	Nil
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)  ii) Void filled by waste/ tailings  iii) Afforestation on the backfilled area  iv) Rehabilitation by making water reservoir  v) Any other specific means	i) 0.75 hectares  ii) 30820 m <sup>3</sup>  iii) 0.50 hectares  iv) No Proposal  v) No Proposal	i) 0.58 hectares  ii) 29750 m <sup>3</sup>  iii) 0.58 hectares  iv) Nil  v) Nil	Nil
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation  ii) Area rehabilitated (ha)  iii) Method of rehabilitation	i) No Proposal  ii) No Proposal  iii) No Proposal	i) Nil  ii) Nil  iii) Nil	Nil
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through Government as well as private agency.	Lessee is conducting Environmental monitoring and all are within permissible limit
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	1000 saplings have proposed during 2023-2024 along backfilled area.	Total 1000 saplings has achieved during 2023-2024 along backfilled area.	Plantation has been done as per proposal along the safety barrier and backfilled area.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>G. MINERAL CONSERVATION:-</b>				
7a	ROM mineral dispatch or grade wise sorting within lease area	The total target of ROM Production proposed was 432800 tons during 2023-2024.	Achieved ROM Production is 432691 tons during 2023-2024.	Nil
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	There is no proposal for grade wise mineral sorting in the lease area.	Entire ROM is useable and sent to outside lease area crusher.	The available grade of Limestone in this lease area is 40% CaO.
7c	Different grade of mineral sorted out at mines	The Limestone of the lease area varies from 40% CaO.	The Limestone of the lease area is 40% CaO	Entire ROM is sent to outside lease area crusher to get the desired plant feed materials.
7d	Any beneficiation process at mines	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	Entire ROM is transported to crusher installed outside lease area.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is transported to crusher installed outside lease area.	Achieved ROM Production is 432691 tons during 2023-2024 against proposal of 432800 tons.	Mineral exhausted as per the MMP. Now FMCP has been submitted.

Sl. No	Item	Proposals	Actual Work	Remarks
<b>H. ENVIRONMENT:-</b>				
8a	Separate removal and utilization of topsoil	No Topsoil proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No Topsoil proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines	There is no proposal for dumping of OB during 2023-2024	As per proposal the dumping are not carried out.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling has proposed in the mineral extracted area in section BB-CC during 2023-2024	As per proposal backfilling has done during 2023-2024	Nil
8f	Baseline information on existence of plantation & additional plantation done	1000 saplings have proposed during 2023-2024 along backfilled area.	Total 1000 saplings has achieved during 2023-2024 along backfilled area.	Plantation has been done as per proposal along the safety barrier



				and backfilled area.
8g	Survival rate	No Proposal in the document.	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	During Inspection, water sprinkling on mines roads has been noticed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	There is no prominent river or stream running in this area.	Outside lease area, agriculture is done with rainfed.

Sl. No	Item	Comments	Remarks	
<b>I. COMPLIANCE OF RULE-45:-</b>				
9a	Status of Submission of Monthly & Annual Returns	MR Submitted up to = March 2024 AR Submitted up to = 2022-2023	Returns are submitted within time limit. Returns for the year 2023-2024 yet to submit. Both Annual & Monthly returns are submitted in online	
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9d	Scrutiny of Annual return on afforestation	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been

				submitted.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9h	Scrutiny of Annual return on fixed assets	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.
9k	Scrutiny of Annual return on mining machineries	Not Submitted for the year 2023-2024	Till time limit is there for submission of Annual Return for the year 2023 2024 in online	Mineral exhausted as per the MMP. Now FMCP has been submitted.

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-**

There is no Violation pointed out.

**G.S.Kannan**  
**Senior Mining Geologist**