

<b>INDIAN BUREAU OF MINES</b> <b>MINERAL DEVELOPMENT AND REGULATION DIVISION</b> <b>MCDR INSPECTION REPORT</b> <b>Chennai Regional Office</b>		
<b>Mine file No.ALR/LST-35.MDS</b>		<b>Mine code - 38TMN38053</b>
(i)	Name of the inspecting officer & Designation	<b>KUMERESH A</b> Senior Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri. K. Elansurian (AGM) Shri J. Ravi (DGM) & Shri Durai Murugan (Sr. DGM)
(iii)	Date of inspection	13/12/2024
(iv)	Date of previous inspection	07/10/2023
<b>PART-I: General Information</b>		
1.	Mine Name	Pudupalayam (Adanakurichi-Manakudaiyan) Limestone Mine
(b)	Registration Number	IBM/638/2011
(c)	Category	A
(d)	Type of Working	Opencast
(e)	Postal Address State District Village Taluka Post Office Pin Code FAX No. E-mail Phone	Pudupalayam Limestone Mines, The Ramco Cements Limited, Alathiyur Works, Ariyalur District. Pin : 621730 E-mail : ravij@ramcocements.co.in Phone : 04329 - 248305, 248306
(f)	Police Station	Dalavoi
(g)	First opening date	14.02.2022
(h)	Weekly day of rest	Sunday
2.	Address for correspondence	Mr. R. Meenashisundaram, Senior Vice President, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 E-mail : mclalr@ramcocements.co.in Date : 05/10/2023
3.	Lease Number	--
	Lease Area	49.28.5 Ha
	Period of lease	50 years

	Date of expiry	10.01.2067
4.	Mineral worked	Limestone
5.	Name and address of the	
	Lessee:	The Ramco Cements Limited
	Owner:	P.R.Venkatramarajah, Chairman, Auras Corporate Centre, 98-A, Dr.Radhakrishnan Salai, Mylapore, Chennai-600004. State : Tamilnadu Phone : 04329 - 248305, 248306 E-mail : mclalr@ramcocements.co.in
	Agent:	Mr. R. Meenashisundaram, Senior Vice President, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 E-mail : mclalr@ramcocements.co.in Date : 05/10/2023
	Manager:	Srikanth B.P, Pudupalayam Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Date : 14/02/2022
	Engineer:	Srikanth B.P, Pudupalayam Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Date : 17/04/2024
	Geologist:	K. Elansurian Pudupalayam Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur

		State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a>  Date : 14/02/2022
6	Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.  Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.	No.TN/ALR/LST/ROMP-1621.MDS Dated-16.12.2020

**PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER  
EXPLORATION**

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Mine fully explored G-1 Level	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Mine fully explored G-1 Level	Nil
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	NA	Mine fully explored G-1 Level
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	NA	Mine fully explored G-1 Level
1e	Balance reserves as on 01.04.2024 (111 Category)	54,10,399 Limestone 3,98,640 Marl	56,56,777.22 Limestone 4,00,559.92 Marl	As per proposal
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Total of 19 borehole drilled with total meterage of 1605.50 m.

**DEVELOPMENT**

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	1254100 N 308600 E to 1254600 N 309200 E	1254100 N 308600 E to 1254600 N 309200 E	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Topsoil – 1, OB – 3, Mineral – 4	Topsoil – 1, OB – 3, Mineral – 4	As per proposal
2c	Stripping ratio or ore to OB ratio	1 : 1.92	1 : 0.81	As per proposal
2d	Quantity of topsoil generation in m3	84,906 M3	66,180 M3	Violation letter issued
2e	Quantity of overburden generation in m3	19,24,528 M3	6,08,813 M3	Violation letter issued

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	Violation letter issued
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**EXPLOITATION**

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	1	1	As per proposal
3b	Quantity of ROM mineral production proposed	9,58,000 Limestone & 42000 Marl	7,11,622 Limestone & 40080 Marl	Violation letter issued
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As per proposal
3d	Quantity of mineral reject generation	Nil	NA	No Mineral Reject Generation
3e	Grade of mineral rejects generation and threshold value declared.	Nil	NA	
3f	Quantity of sub grade mineral generation.	Nil	NA	No Subgrade Mineral Generation
3g	Grade of sub grade mineral generation	Nil	NA	No Subgrade Mineral Generation
3h	Manual / Mechanized method adopted for segregating from ROM	Nil	NA	Total ROM is used
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	NA	Beneficiation Study is Not Required
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Surface Minor is Deployed.
3k	Provision of mining machineries in mineral benches	Shovel-4, Backhoe-3, Other HEMM-2, Water Tanker-2, Tipper-12	Shovel-4, Backhoe-3, Other HEMM-2, Water Tanker-2, Tipper-12	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in RoMP	Height – 6m, Width – 6m	Height – 6m, Width – 6m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits	16.60 Ha	14.163 Ha	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.92	1 : 0.81	As per proposal
3o	Total area put in use under different heads at the end of year	Covered under current (O/C) Workings – 16.60 OB & Topsoil Dump-	Covered under current (O/C) Workings – 14.163 OB & Topsoil Dump- 6.651 Occupied by plant,	As per proposal

		9.08 Occupied by plant, buildings, & roads – 1.06 Others – 22.55	buildings, & roads – 1.06 Others – 27.411	
3p	Production of ROM mineral during the last five-year period as applicable	2019-20=0 Ts 2020-21=0 Ts 2021-22=0 Ts 2022-23=2,73,614 Ts 2023-24=9,58,000Ts	2019-20=0 Ts 2020-21=0 Ts 2021-22=0 Ts 2022-23=2,73,441Ts 2023-24=7,11,622Ts	Violation letter issued for the plan period 2023-24
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.

**SOLID WASTE MANAGEMENT-DUMPING**

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Topsoil & OB are dumped separately	Topsoil & OB are dumped separately	Separately stacked
4b	Location of topsoil, OB and mineral reject dumps	Top Soil- 1254200 N 309100 E to 1254400 N 309300 E OB - 1254000 N 308300 E to 1254600 N 308600 E	Top Soil- 1254200 N 309100 E to 1254400 N 309300 E OB - 1254000 N 308300 E to 1254600 N 308600 E	As per proposal
4c	Number of dumps within lease area and outside of lease area	Top soil – 1 OB – 1	Top soil – 1 OB – 1	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit limit	Outside Ultimate Pit limit	As per proposal
4e	Number of active and alive dumps.	2	2	1 – Top Soil 1 – OB
4f	Number of dead dumps.	-	-	
4g	Number of dumps established.	Nil	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	770mts x 0.8 mts x 0.7 mts	2400mts X 0.8 mts X 0.7 mts	Garland drain all along dump
4j	Number of settling ponds	1	1	Existing settling pond is Desilted
4k	Specific comments of inspecting officer on waste dump management	--	--	Waste dump management was found satisfactory.

**SOLID WASTE MANAGEMENT-BACKFILLING**

S. No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	All minerals are mined & taken before starting of Backfilling	All minerals are mined & taken before starting of Backfilling	

5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	Top soil stocked for future use in afforestation and reclamation.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc	--	--	The mine has not reached the proved depth and no backfilling was proposed

### **PROGRESSIVE MINE CLOSURE PLAN**

S. No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26 (2)	Yes	Yes	Submitted in time
6b	Area available for rehabilitation (ha).	No Proposal	Nil	Nil
6c	Afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no. of plants	2,000	10,200	-
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	No Proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.1 Ha	2.318 Ha	Planted in safety zone
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	100	5,100	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green belt development along the safety barrier	Green belt development along the safety barrier	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring	Periodic monitoring by both private and government agencies	All the monitored values are with in limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	Green belt development has been done as per the proposal along the safety barrier

### **MINERAL CONSERVATION**

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Grade wise sorting carried out	As proposed
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Using Surface Miner
7c	Different grade of mineral sorted out at mines.	High Grade, Low grade, Very low grade, Very very low grade	High Grade, Low grade, Very low grade, Very very low grade	As proposed
7d	Any beneficiation process at mines	ROM is transported to beneficiation plant outside lease area located at south block in a distance of 4 km .	ROM is transported to beneficiation plant outside lease area located at south block in a distance of 4 km .	ROM is transported to beneficiation plant outside lease area located at south block in a distance of 4 km .
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	-	-	ROM is transported to beneficiation plant outside lease area located at south block in a distance of 4 km .

### **ENVIRONMENT**

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	As per proposal
8b	Concurrent use or storage of topsoil	Top soil stored for future use	Top soil stored for future use	Top soil stored for future use.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Top Soil- 1254200 N 309100 E to	Top Soil- 1254200 N 309100 E to 1254400 N	As per proposal

		1254400 N 309300 E OB - 1254000 N 308300 E to 1254600 N 308600 E	309300 E OB - 1254000 N 308300 E to 1254600 N 308600 E	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	The OB & IB are dumped in separate dump yard	The OB & IB are dumped in separate dump yard	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100	5,100	
8g	Survival rate	Not specified	85 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling is being done with high pressurized water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	The aesthetic beauty in and around mines area was found satisfactory.

**COMPLIANCE UNDER RULE-45**

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Returns submitted for the year 2023-24		Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Proposed	Appointed and were present during the inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining-9.45 Ha Dump-6.65 Ha Road 0.66 Ha	Given in Part – I. Sl no.12	



9d	Scrutiny of Annual return on afforestation	Provided in Annual Return	Given in Part – V. Sl no.4.4	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject	Given in Part – V. Sl no.4.2	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mentioned	Given in Part – VI. Sl no.1	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Provided in Annual Return	Given in Part – VI. Sl no.5	
9h	Scrutiny of Annual return on fixed assets	Provided in Annual Return	Given in Part – IIA. Sl no.1	
9i	Scrutiny of Annual return on mining machineries	Given in completed statement	Given in Part – V Sec – 5	

<b>Details of violations observed during current inspection and compliance position of violations pointed out</b>					
Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	06.01.2025	28.01.2025			

Date:

**KUMERESH A**  
**SrAsst Controller of Mines**  
Indian Bureau of Mines