

<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. TN/ALR/LST-40MDS</b>		<b>Mine code - 38TMN24034</b>
(i)	Name of the inspecting officer & Designation	<b>KUMERESH A</b> Senior Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri <b>S. Ravichandran (Mines Manager)</b> Shri <b>M. Viji Joseph ( Senior Manager – Operations)</b> Shri <b>V. Muthu perianayagam (Mining Geologist)</b> Shri <b>W. Jabarlin Thampi (Mines In Charge)</b>
(iii)	Date of inspection	<b>22.11.2024</b>
<b>PART-I: General Information</b>		
1.	Mine Name	Karuppur Senapathy Limestone Mine
(b)	Registration Number	<b>IBM/7616/2011</b>
(c)	Category	A
(d)	Type of Working	Opencast
(e)	Postal Address State District Village Taluka Post Office Pin Code FAX No. E-mail Phone	Vijay Cements, Vellakkalppatti, Puthenampatti PO, Thurayur Taluk, Tiruchirappalli Dist. 621007 E-mail : mines@vijaycements.in Phone : 04321-296555
(f)	Police Station	Keelapalur
(g)	First opening date	19-05-2003
(h)	Weekly day of rest	Sunday
2.	Address for correspondence	Mr. Velmurugan Vaikundarajan Vijay Cements, Vellakkalppatti, Puthenampatti PO Trichy - 621007. State : Tamilnadu Fax : E-mail : mines@vijaycements.in Phone : 04321-296555
3.	Lease Number	TMN0894
	Lease Area	3.88.0 Ha (No Forest Land)
	Period of lease	50 years

	Date of expiry	18.05.2053
4.	Mineral worked	Limestone
5.	Name and address of the Lessee:  Owner:  Agent:  Manager:  Engineer:	M/s Vijay Cements  Mr. Velmurugan Vaikundarajan Vijay Cements, Vellakkalppati, Puthenampatti PO Trichy - 621007. State : Tamilnadu E-mail : mines@vijaycements.in Phone : 04321-296555  Nil  Mr. S. Ravichandran B.E (Mining) FCC (R) Vijay Cements, Vellakkalppati, Puthenampatti PO Trichy - 621007. State: Tamilnadu E-mail : mines@vijaycements.in Phone : 04321-296555  S. Ravichandran B.E (Mining) FCC (R) Vijay Cements, Vellakkalppati, Puthenampatti PO Trichy - 621007. State : Tamilnadu E-mail : mines@vijaycements.in Phone : 04321-296555 Date of appointment: 28.01.2022
6	Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.	17.02.2003
	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.	Fresh under rule 22 MCR 1960-17.02.2003 Modification of approved Mining Plan-06.05.2005 Mining scheme rule 12 MCDR 1988-24.04.2009 Mining scheme rule 12 MCDR 1988-06.06.2013 MP review under 17(1)MCR 2016-02.03.2018 MP review under 17(1) MCR 2016-08.02.2023

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

S. No.	Item	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	Mine fully Explored in G1 Level.
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 01.04.2024 (111 Category)	229948 Te		
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Nil

**DEVELOPMENT**

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	Between local grids ML 74-70	Between local grids ML 74-70	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Nil	Nil	Nil
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0	No OB was generated
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	--

**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	32795	26500	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As per proposal
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	No Mineral reject generation
3f	Quantity of sub grade mineral generation.	Nil	Nil	No Sub grade Mineral generation
3g	Grade of sub grade mineral generation	Nil	Nil	No Sub grade Mineral generation
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	-

3j	Provision of drilling and blasting in mineral benches	Nil	Nil	-
3k	Provision of mining machineries in mineral benches	L&T Komatsu PC 200	L&T Komatsu PC 200	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in RoMP	Height -5m Width-more than height of the bench	Height -5m Width-more than height of the bench	-
3m	Total area covered under excavation/pits	3.09 Ha	3.09 Ha	As Per Proposal
3n	Ore to OB ratio for the pit/mine during the year.	1: 0	1: 0	
3o	Total area put in use under different heads at the end of year	Area Under Dump - 0.14 Area under utility – 0.04 Area undisturbed – 0.31 Virgin area under green belt – 0.30	Area Under Dump -0.14 Area under utility – 0.04 Area undisturbed – 0.31 Virgin area under green belt – 0.30	As per proposal
3p	Production of ROM mineral during the last five-year period as applicable	2019-20-49640Te 2020-21-52315 Te 2021-22-51675 Te 2022-23-51310 Te 2023-24- 32795 Te	2019-20-19200 Te 2020-21-36500 Te 2021-22-20500 Te 2022-23-1900 Te 2023-24- 26500 Te	
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)	Nil	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside of lease area	1	1	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within ultimate pit limit	Within ultimate pit limit	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	

4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	

**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.	Nil	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 and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc	Nil	Nil	Nil

**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)	Periodic Submission before due date	Being submitted before due date	-
6b	Area available for rehabilitation (ha).	Nil	Nil	-
6c	Afforestation done (ha).	0.024 Ha	0.024 Ha	-
6d	No. of saplings planted during the year	20	45	-
6e	Cumulative no. of plants	110	155	
6f	Any other method of rehabilitation	Nil	Nil	-
6g	Cost incurred on watch and care during the year	100000	100000	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	-	-	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation backfilled area	-	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	water reservoir	After mining is completed excavated area will be utilized as water reservoir	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic Monitoring	Quarterly Monitored	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	-

**MINERAL CONSERVATION**

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	Nil	Nil	-
7c	Different grade of mineral sorted out at mines.	Nil	Nil	-
7d	Any beneficiation process at mines	Nil	Nil	-
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	-	-	PMCP works satisfactory

**ENVIRONMENT**

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	-
8b	Concurrent use or storage of topsoil	No proposal	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock	As per proposal	-
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No proposal	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	25	45	-
8g	Survival rate	70%	90%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads.	Water sprinkling being done on haul roads.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	--

**COMPLIANCE UNDER RULE-45**

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted for the year 2023-2024		-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Proposed	Appointed	-
9c	Scrutiny of Annual return on land use	Proposed	Given in Part – i. Sl no.12	

	pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation	-	Part – V. item no.5	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Part – V. item 4	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	Part – VI. Item 2	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	Captive use	
9h	Scrutiny of Annual return on fixed assets	-	Part – IIA. item no.1	--
9i	Scrutiny of Annual return on mining machineries	Backhoe	Given in Part – V Item 6	

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
Nil					

Date:

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