

<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/SLM/LST-11.MDS</b>		<b>Mine code - 38TMN11111</b>
(i)	Name of the inspecting officer & Designation	<b>KUMERESH A</b> Senior Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri. N.Vemburaj (Sr.Manager - Mines) Shri. K.Prakash (Geologist)
(iii)	Date of inspection	24.06.2024
(iv)	Date of previous inspection	25.11.2023
<b>PART-I: General Information</b>		
1.	Mine Name	Veerachipalayam Limestone Mine
(b)	Registration Number	IBM/613/2011
(c)	Category	A
(d)	Type of Working	Opencast
(e)	Postal Address State District Village Taluka Post Office Pin Code FAX No. E-mail Phone	The India Cements Limited, Sankari West Post, Salem District. Tamil Nadu Pin-637303 Phone -04283 254923 E-mail- skd_gmoffice@indiacementsco.in Fax no: 04283 240051
(f)	Police Station	Sankari
(g)	First opening date	18.02.1991
(h)	Weekly day of rest	Sunday
2.	Address for correspondence	Shri. V. M. Mohan, Nominated Mine Owner, The India cements Limited, Corporate Office, Coromandel towers,93,Santhom high road, Karpagamavenue,R.APuram,Chennai-600026: Date of Appointment: 01.11.2023
3.	Lease Number	TMN0058
	Lease Area	61.885 Ha
	Period of lease	50 years
	Date of expiry	31.03.2030
4.	Mineral worked	Limestone

5.	<p>Name and address of the</p> <p>Lessee:</p> <p>Owner:</p> <p>Agent:</p> <p>Manager:</p> <p>Engineer:</p> <p>Geologist:</p>	<p>M/s. The India Cements limited</p> <p>V.M.Mohan 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: <a href="mailto:palanikumaresan.m@indiacements.co.in">palanikumaresan.m@indiacements.co.in</a> Date of Appointment: 01.11.2023</p> <p>Shri. Mr. A Veerabagu, Agent (Mines), The India Cements Limited, Sankari west, Salem District, Pin-637303 Phone-9385239370 <a href="mailto:Veerabagu.a@indiacements.co.in">Veerabagu.a@indiacements.co.in</a> Date of Appointment: 11.08.2021</p> <p>Shri. N.Vemburaj, Manager(Mines) The India Cements Limited, Sankari west, Salem District, Pin-637303 Phone: 9842137766 <a href="mailto:Vemburaj.n@indiacements.co.in">Vemburaj.n@indiacements.co.in</a> Date of Appointment:12.04.2023</p> <p>Shri. A. Infant Jerome The India Cements Limited, Sankari west Salem District, Pin-637303 Phone- 7010831062 <a href="mailto:skd_mines@indiacements.co.in">skd_mines@indiacements.co.in</a> Date of Appointment:01.04.2018</p> <p>Shri. K.Prakash, The India Cements Limited, Sankari west Salem District, Pin-637303 Phone – 7893370064 <a href="mailto:skd_mines@indiacements.co.in">skd_mines@indiacements.co.in</a> Date of Appointment:06.05.2024</p>
6	<p>Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.</p> <p>Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.</p>	<p>Fresh under Rule 22 MCR 1960: 22.03.1999 Mining Scheme rule 12 MCDR 1988: 18.10.2012 MP modification under MCR 1960: 22.03.2016 MP modification under 17(3) MCR 2016: 08.01.2021 Mp review under 17(1) MCR 2016: 26.03.2021</p>

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

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	Mine is fully explored under G1 level
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2024 (111 Category)	-	1.71 Million Tonnes	
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the mine were found satisfactory.

**DEVELOPMENT**

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	Northern direction of ML area E/W 804089-804196 N/S 1270930-1270981	Northern direction of ML area E/W 804089-804196 N/S 1270930-1270981	-
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Nil	Nil	-
2c	Stripping ratio or ore to OB ratio	1:1.87	1:2.706	Violation letter issued
2d	Quantity of topsoil generation in m3	20738	Nil	Violation letter issued
2e	Quantity of overburden generation in m3	2,35,375	1,91,914	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	Violation letter issued

**EXPLOITATION**

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	01	01	Nil
3b	Quantity of ROM mineral production proposed	2023-24=539276	2023-24=474561	Nil
3c	Recovery of salable/usable mineral from ROM production	2023-24 = 269638 tns	2023-24= 259684 tns	Nil
3d	Quantity of mineral reject generation	2023-24 = 269638 tns	2023-24= 214877 tns	Nil
3e	Grade of mineral rejects generation and threshold value declared.	CaO < 34 % and threshold value for Limestone CaO < 34 %	CaO < 34 % and threshold value for Limestone CaO < 34 %	Nil

3f	Quantity of sub grade mineral generation.	NA	NA	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Rock breakers in combination with conventional / controlled blasting are practiced in this mine. Drilling machine is deployed to drill 32-45 mm diameter and 115 mm diameter holes.	Rock breakers in combination with conventional / controlled blasting are practiced in this mine. Drilling machine was deployed to drill 115 mm diameter.	Nil
3k	Provision of mining machineries in mineral benches	Wagon Drill – 2 No Ex210 with breaker-1no Tata JD315 loader-1 no Front end loader-1no Ex210 -1 no Dozer-1no Tipper-4 no Water Tanker-1no	Wagon Drill – 2 No Ex210 with breaker-1no Front end loader-1no Ex210 -1 no Dozer-1no Tipper-4 no Pump=1no Water Tanker-1no	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in RoMP	Yes.	Height of the bench in Ore was about 10 m and in OB/Waste was about 10 m	Nil
3m	Total area covered under excavation/pits	19.19Ha	18.83 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.87	1:0.92	Nil
3o	Total area put in use under different heads at the end of year	Mining-19.19 Ha Dump- 7.01 Road&Infrastructure - 0.49 Plantation – 3.30Ha Non mining- 31.895	Mining-18.83 Ha Dump- 6.68 Road & Infrastructure - 0.49 Plantation – 8.48 Ha Non mining- 27.205	Nil
3p	Production of ROM mineral during the last five-year period as applicable	2019-20=448875 Ts 2020-21=450000 Ts 2021-22=539026 Ts 2022-23=539050 Ts 2023-24=539276 Ts	2019-20=377507 Ts 2020-21=345494Ts 2021-22=389679 Ts 2022-23=424110 Ts 2023-24=474561Ts	Less limestone production due to less plant requirement

3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.
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**SOLID WASTE MANAGEMENT-DUMPING**

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Near Alathur Block-	Near Alathur Block	Nil
4b	Location of topsoil, OB and mineral reject dumps	Near Alathur Block E/W 804076-804449 N/S 1270760-1271460 (R.L 296)	Near Alathur Block E/W 804080-804440 N/S 1270760-1271450(R.L 292)	Nil
4c	Number of dumps within lease area and outside of lease area	01	01	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per mining plan	As per mining plan	Nil
4e	Number of active and alive dumps.	01	01	Nil
4f	Number of dead dumps.	-	-	
4g	Number of dumps established.	1	1	Stablised with plantations.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Nil
4i	Length of Retaining wall or garland drain all along dumps	100 M	110 m	Nil
4j	Number of settling ponds	Nil	Nil	Nil
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.	NA	NA	Nil
5b	Area under backfilling of mined out area	NA	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	Nil
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc	--	--	--

**PROGRESSIVE MINE CLOSURE PLAN**

S. No.	Item	Proposals	Actual Work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26 (2)	YES	YES, on time.	Nil
6b	Area available for rehabilitation (ha).	Nil	Nil	Nil
6c	Afforestation done (ha).	0.1 Ha	0.28 Ha	Nil
6d	No. of saplings planted during the year	50	140	Nil
6e	Cumulative no. of plants	12413	12613	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	30000	70000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	NA	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation backfilled area	NA	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	YES	TNPCB, ENVIRO SOLUTIONS & LABS	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	YES, Annual report submitted.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	Nil

**MINERAL CONSERVATION**

S. No.	Item	Proposals	Actual Work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	269638 tns	259684 tns	Nil
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	Not applicable
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	-	-	-

**ENVIRONMENT**

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	20738	Nil	Violation letter issued
8b	Concurrent use or storage of topsoil	No topsoil	No topsoil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No	No	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Neem & Pungan	Neem, Dubai and Poovarasan.	Nil
8g	Survival rate		80%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes. 40 KLD(dust suppression & Afforestation)	Nil
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	Submitted		

	Annual returns			
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer and Geologist	Full time Mining Engineer and Geologist	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Working:18.5 Ha Dump:6.410 Ha		Nil
9d	Scrutiny of Annual return on afforestation	100	140	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	316.77 Ex Mine price: 316.77 & Production cost:442.81		
9h	Scrutiny of Annual return on fixed assets	2,12,13,937/-		Provided in part -II (A)
9i	Scrutiny of Annual return on mining machineries	Proposed	Mentioned in part -V, Sec-5/6/8/9.	

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
11(1)	08.07.2024	19.08.2024			

Date:

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