

<b>MCDR INSPECTION REPORT</b>		
<b>KARUMAPUATHANUR LIME STONE MINE</b>		
	Name of the inspecting officer designation	<b>Mr. A.KUMERESH, Sr. Assistant Controller</b>
	Date of inspection:	<b>23.06.2024</b>
	Accompanied mine official and designation	<b>Mr. S.Natarajan, AGM (Mines)</b> <b>Mr. P.Thean Thilak (Geologist)</b>
	Mine file No.	
<b>S.No</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	KARUMAPURTHANUR LIMESTONE MINE
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	54.18 Ha (Non Forest)
3	Minecode	38TMN11115
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/613/2011
5	Name of the lessee, Address, phone, email and fax number	The India Cements Limited, Sankari West Post, Salem District. Tamil Nadu Pin-637303 Phone – 04283 254923 E-mail- <a href="mailto:skd_gmoffice@indiacementSCO.in">skd_gmoffice@indiacementSCO.in</a> Fax no: 04283 240051
6	Village	CHINNAGOUNDANUR
7	Taluka/Mandal	SANKARI
8	District	SALEM
9	Pin code	637303
10	State	TAMILNADU
11	Post office	SANKARI WEST
12	Nearest police station	SANKARI
13	Nearest Railway station	SANKARI
14	Date of Grant of Mining Lease	19.08.1963
15	Date of Execution	09.12.1963
16	Date of opening of Mine	09.12.1963
17	Date of first Renewal, if applicable and its period & expiry	The lease was first renewed vide G.O No 655dated 08.06.1984 for 3 years The lease is valid up to 08.12.1986.
18	Date of second Renewal, if applicable and its period & expiry	The second renewal vide G.O no 453 dt 26.08.1987 for 6 years(Expired on 08.12.1992).The Lease was renewed for the third time vide G.O No. 77 dt 21.03.1995 for 10years(Expired on 08.12.2002). and the lease was renewed for the fourth time vide G.O No. 88 Dt: 20.08.2018 & Valid upto 31.03.2030.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	---
20	Name of the Nominated Owner with Address, phone, email, fax number and Date of appointment	Mr.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
		Mr. A Veerabagu,Agent (Mines),

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	The India Cements Limited, Sankari west, Salem District, Pin-637303 Phone-9385239370 Veerabagu.a@indiacements.co.in Date of Appointment: 11.08.2021
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. S. Natarajan The India Cements Limited, Sankari west, Salem District, Pin-637303 Phone: 9790011299 Natarajan.s@indiacements.co.in Date of Appointment: 10.12.2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. M. PalaniKumaresan The India Cements Limited, Sankari west Salem District, Pin-637303 Palanikumaresan.m@indiacements.co.in Date of Appointment: 09.09.2020
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55&carrying out their duties as per rule 56&55.	Mr. P.Thean Thilak The India Cements Limited, Sankari west Salem District, Pin-637303 Phone: 8008715582 Skd_mines@indiacements.co.in Date of Appointment: 03.06.2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of mining plan TN/SLM/LST/MP-2002.MDS Dated 29.11.2016 .Validity period from 2017-18 to 2021-2022. Review of mining plan TN/SLM/LST/ROMP-1683.MDS Dated 07.12.2021 .Validity period from 2022-23 to 2026-2027.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining: TN/SLM/MP/Lst317/MDS, Dt:09.08.1990 TN/SLM/MP/Lst827/MDS, Dt:03.01.1996 TN/SLM/MP/Lst/1379A SZ, Dt:08.05.2002 TN/SLM/MP/Lst/MS,/405/SZ Dt:09.01.2007 TN/SLM/MP/Lst3/MS-702-SZ, Dt:17.12.2012 TN/SLM/LST/MP-2002.MDS, Dt:29.11.2016
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)	Fully Mechanized
30	Captive/Non Captive	Captive

## **II - OBSERVATION AND COMMOND OF INSPECTING OFFICER**

### **Exploration**

S.N.	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.	Nil	Nil	Mine is fully explored under G1 level
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	Nil

1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	Nil
1e	Balance reserves as on 01.04.2024 (111+121 Category)	-	41,56,350 Tonnes	
1f	General comments of inspecting officer on geology, exploration etc.	The Rocks occurring in this region are metamorphosed Crystalline limestone, associated with biotite gneiss of Archean. The limestone is coarse to medium grained.	41 numbers of core boreholes and 89 numbers of non core (RC/DTH) have been drilled so far.	Entire area has been explored up to G1 level.
	Total Exploration carried out so far	54.18.0	54.18.0	

### **Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area( <b>Ref With Grid</b> )	Northern direction of ML area E 806670- 807142 N 1269630- 1269950	Northern direction of ML area E806682-807043 N1269650- 1269900	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	No separate benches for topsoil and OB
2c	Stripping ratio or ore to OB ratio	1:2.09	1:1.12	
2d	Quantity of topsoil generation	Nil	Nil	-
2e	Quantity of overburden generation	421915 tons	95918 tons	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

### **Exploitation**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	Nil
3b	Quantity of ROM mineral production proposed in tonnes	2022-23=449800 2023-24=449783 2024-25=449200	2022-23=261883.540 2023-24=212211.780	

		2025-26=449300 2026-27 = 449275		
3c	Recovery of salable/usable mineral from ROM production	2023-24= 269870	2023-24= 212211.780	
3d	Quantity of mineral reject generation	2023-24= 179913	2023-24= 0	
3e	Grade of mineral reject generation and threshold value declared	CaO < 34 % and threshold value for Limestone CaO< 34 %	CaO < 34 % and threshold value for Limestone CaO< 34 %	
3f	Quantity of sub-grade mineral generation	NA	-	
3g	Grade of sub-grade mineral generation	NA	-	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & 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 holes and also 115 mm diameter holes.	Rock breakers in combination with conventional / controlled blasting are practiced in this mine. Drilling machine is deployed to drill 115 mm diameter holes.	
3k	Provision of mining machineries in mineral benches	Wagon drill -2nos  PC210 Excavator -2 No Ex210 with breaker-1no Tata JD315 loader-1 no Front end loader-1no Dozer-1no Tipper- 8 nos Water Tanker -1	Wagon drill -2 nos  Sany 225 Excavator -2 No Ex210 with breaker-1 no Front end loader-1 no Tipper-6 nos Water Tanker -1 Pump(non electric)-1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Height of the bench 10m	Yes Height of the bench 10m	No separate benches for OB
3m	Total area covered under excavation/pits	27.94 Ha	27.94 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:2.09	1:1.12	
3o	Total area put in use under different heads at the end of year	Mining- 27.94 Ha Dump- 9.52 Infrastructure& Road– 1.60 Non mining& Green Belt	Mining- 27.94 Ha Dump- 9.52 Infrastructure& Road–1.96 Non mining& Green Belt	

			-15.12	-14.76	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	449928	423959	
		2020-21	450400	449993	
		2021-22	448498	448489	
		2022-23	449800	436473	
		2023-24	449783	353686	
3q	General Remarks of inspecting officer on method of mining etc.				

### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	North Western side of the pit E 806618-806710 N1269910-1270110	E 806619-806709 N1269910-1270110	No separate dumps for topsoil, Ob & Mineral Reject. Only for reject Only for reject Available Only for reject
4b	Location of topsoil, OB & mineral reject dumps	North Western side of the pit E 806618-806710 N1269910-1270110	E 806619-806709 N1269910-1270110	
4c	Number of dumps within lease area and outside lease area	Within Lease Area - 2	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per mining plan E 806618-806710 N1269910-1270110	As per mining plan E 806619-806709 N1269910-1270110	
4e	Number of active & alive dumps	01	01	Within mining lease
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilized	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	100m	150m	Earthen Bund
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			

### **Solid Waste Management – Backfilling**

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	Mining operation under progress
5b	Area under backfilling of mined out area	NA	NA	-

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	-
5d	Total area fully reclaimed & rehabilitated	NA	NA	-
5e	General Remarks of inspecting officer on backfilling, reclamation etc	Nil	No backfilling was done	Nil

### Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly – Rule 23E(2)	Yes	Submitted	Nil
6b	i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	<b>Afforestation done (ha)</b>	0.12 Ha	0.20Ha	For 2023-24
6d	<b>No. of saplings planted during the year</b>	100	170	For 2023-24
6e	<b>Cumulative no. of plants</b>	4671	4761	upto 2023-24
6f	<b>Any other specific method of rehabilitation</b>	NA	Nil	
6g	<b>Cost incurred on watch &amp; care during the year</b>	50000	85000	-
6i	Compliance on reclamation and rehabilitation by backfilling <b>(ii) Void filled by waste/tailings</b>	NA	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling <b>(iii) Afforestation on the backfilled area</b>	NA	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling <b>(iv) Rehabilitation by making water reservoir</b>	NA	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling <b>(v) Any other specific means</b>	NA	Nil	-
6m	Compliance of Rehabilitation of waste land within lease <b>i) Afforestation</b>	NA	Nil	-
6n	Compliance of Rehabilitation of waste land within lease <b>ii) Area rehabilitated (ha)</b>	NA	Nil	-
6o	Compliance of Rehabilitation of waste land within lease <b>iii) Method of rehabilitation</b>	NA	Nil	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	YES	TNPCB, ENVIRO SOLUTIONS & LABS	-
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations			

**Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	269870 tns	212211 tns	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	Cement grade Limestone	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues			

**Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil	No topsoil	
8b	Concurrent use or storage of topsoil	No topsoil	No topsoil	There is no top soil. Present working at existing bench
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	All the waste rocks are dumped at single dump. There is No Mineral rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	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 & additional plantation done (Rule 41)	4671 Nos- Neem&Pungan	4761 Nos- Neem, Dubai and Poovarasan.	upto 2023-24
8g	Survival rate	90%	85%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	50 KL (dust suppression & Afforestation)
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area			

**Compliance of Rule 45**

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	

S.N	Item	-	-	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	-	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	54.18 Ha	-	
9d	Scrutiny of Annual return on afforestation	Nil	-	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	-	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	-	
9h	Scrutiny of Annual return on fixed assets	Nil	-	
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	Nil	-	

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

Violation has been pointed out on 08.07.2024 under Rule 11(1) for deviation of working

**Date:**

**KUMERESH A**  
**Sr. Assistant Controller of Mines**