

MCDR INSPECTION REPORT

	Name of the inspecting officer designation	Shri. S.THIRUNAVUKKARASU Senior Mining Geologist, IBM, Chennai
	Date of inspection:	14-10-2020
	Accompanied mine official and designation	Mr. P. Jagadish Babu, (GM-Mines) & Mr. L.Venkatarama Subramanian (DGM-Geo)
	Mine file No.	
General		
S.N.	Particulars	Details
1	Name of the Mine	SIVALARPATTI LIMESTONE MINE- LEASE-II
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	129.72.0
3	Minecode	38TMN31012
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District, Tamilnadu Phone: 04562-256201, 202 and 203 Email: pjb@ramcocements.co.in
6	Village	Pudur, Kullakattankurichi, Sivalarpatti, Muthusamipuram & Vannipatti
7	Taluka/Mandal	Vilathikulam
8	District	Thoothukudi
9	Pin code	626113
10	State	Tamilnadu
11	Post office	Pudur
12	Nearest police station	Pudur
13	Nearest Railway station	Aruppukottai
14	Date of Grant of Mining Lease	06-01-2017
15	Date of Execution	11-01-2017
16	Date of opening of Mine	Mine to be Operated after obtaining of EC
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	P.R.VENKETRAMA RAJA, Chairman & Managing Director, The Ramco Cements Limited, Auras Corporate Centre, 98-A, Dr.Radhakrishnan Salai, Mylapore, Chennai-600004. Phone:044 28478666 Date of Appointment: 01.04.2004
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	S.RAMALINGAM, Senior Vice President (Mfg) The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202and 203 Email: srl@ramcocements.co.in Date of Appointment: 15.12.2017 Email: srl@ramcocements.co.in

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	K.SARAVANAN, DGM (Mines), The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: pjb@ramcocements.co.in Date of Appointment: 24.03.2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	K.SARAVANAN, DGM (Mines) The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: pjb@ramcocements.co.in Date of Appointment: 01.08.2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	L.VENKATARAMA SUBRAMANIAN, DGM (Geology) The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: lvrsmani@ramcocements.co.in Date of Appointment: 01.08.2013
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/TKD/MP/LST-1978-MDS, Dt. 23-05-2016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	TN/TKD/LST/ROMP-1608.MDS, Dt. 20-11-2020 (Review of Mining Plan for the period 2021-22 to 2025-26)
27	Mineral(s) granted in lease and proved for mining	LIMESTONE
28	Method of Mining(Open cast,Underground)	OPENCAST
29	Category (Fully Mechanised, Others or Manual)	FULLY MECHANISED
30	Captive/Non Captive	CAPTIVE

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	NA	The area was fully explored.
1b	Exploration over lease area for Geological axis 1 or 2.	6.00 Ha	6.00 Ha	The area is Fully Explored. Under G1 level. Drilled DDH total meterage of 636.50 mts..
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	NA	The area is Fully Explored. Under G1
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	NA	Total mineralized area already explored
1e	Balance reserves as on 01.04.2019 (111+121 Category)	2.481 Mil.Tons	2.481 Mil.Tons	Nil Production due to delaying in obtaining of EC
1f	General comments of inspecting officer on geology, exploration etc.			Mine is not under operation

Development (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	ML (- 0.20) to 1	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes		
2c	Stripping ratio or ore to OB ratio	1:0.71		
2d	Quantity of topsoil generation in m ³	Nil		
2e	Quantity of overburden generation in m ³	56751		
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	--	--	Mining not under Operation

Exploitation (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
3b	Quantity of ROM mineral production proposed	231750 Tonnes		
3c	Recovery of salable/usable mineral from ROM production	90 %		
3d	Quantity of mineral reject generation	Nil		
3e	Grade of mineral reject generation and threshold value declared	<35 CaO		
3f	Quantity of sub-grade mineral generation	Nil		

3g	Grade of sub-grade mineral generation	Nil		
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized methods proposed.		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal given.		
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting is proposed and blasting with delay detonators.	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
3k	Provision of mining machineries in mineral benches	Yes		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		
3m	Total area covered under excavation/pits	Nil		
3n	Ore to OB ratio for the pit/mine during the year	1:0.71		
3o	Total area put in use under different heads at the end of year	52.44 Ha		
3p	Production of ROM mineral during last five-year period, as applicable (2017-20)	2016-17=229500 2017-18=229050 2018-19=229500 2019-20=231750		
3q	General Remarks of inspecting officer on method of mining etc.			

Solid Waste Management-Dumping (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	New Dump Proposed	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
4b	Location of topsoil, OB & mineral reject dumps	NW side of ML-4		
4c	Number of dumps within lease area and outside lease area	4 Nos –Inside ML 5 Nos –Outside ML		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes		
4e	Number of active & alive dumps	3		
4f	Number of dead dumps	4		
4g	Number of dumps stabilised	2		
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal		
4i	Length of Retaining wall or garland drain all along dump	Nil		
4j	Number of settling ponds	Nil		
4k	Specific comments of inspecting officer on waste dump management			

Solid Waste Management – Backfilling (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
5b	Area under backfilling of mined out area	Nil		
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil		
5d	Total area fully reclaimed & rehabilitated	Nil		
5e	General Remarks of inspecting officer on backfilling, reclamation etc			

Progressive Mine Closure Plan (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
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.	Not Submitted		Mining Operation not Started due to delay in Obtaining of Environmental Clearance
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	Nil		
6c	Management of worked/mined out benches Afforestation done (ha)	Nil		
6d	Management of worked/mined out benches No. of saplings planted during the year	Nil		
6e	Management of worked/mined out benches Cumulative no. of plants	Nil		
6f	Management of worked/mined out benches Any other specific method of rehabilitation	Nil		
6g	Management of worked/mined out benches Cost incurred on watch & care during the year	Nil		
6i	Compliance on reclamation and rehabilitation by backfilling Void filled by waste/tailings	Nil		
6j	Compliance on reclamation and rehabilitation by backfilling Afforestation on the backfilled area	Nil		
6k	Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir	Nil		
6l	Compliance on reclamation and rehabilitation by backfilling v) Any other specific means	Nil		
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	800 Nos	2400	
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	1.65 Ha	2.0	

6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Plantation with 3200 Nos.	6600 Nos	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Periodically Monitored		
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-		

Mineral Conservation (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting of ROM grade wise at pit head.	Mining Operation not Started due to delay in Obtaining of Environmental Clearance	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No separation at mine head.		
7c	Different grade of mineral sorted out at mines	Nil		
7d	Any beneficiation process at mines	Nil		
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues			

Environment (2019 to 2020)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Mining Operation not Started due to delay in Obtaining of Environmental Clearance	
8b	Concurrent use or storage of topsoil	Nil		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump Proposed		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.65 Ha	2.0 Ha	Old dumps being terraced for stabilization
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	800 Nos	2400 Nos	So far 6600 No. of Saplings in 5.50 Ha (as on Sep-2020) Planted in the ML area
8g	Survival rate	-	80 %	-
8h	Water sprinkling on roads to control airborne dust	10 KL Water Tanker	Mining Operation not Started due to n Obtaining of Environmental Clearance	
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45 (2019 to 2020)

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Not Submitted	Mining Operation not Started due to delay in Obtaining of Environmental Clearance
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		
9d	Scrutiny of Annual return on afforestation		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		
9h	Scrutiny of Annual return on fixed assets		
9i	Scrutiny of Annual return on mining machineries		
(S.THIRUNAVUKKARASU) SENIOR MINING GEOLOGIST (Name of inspecting officer with designation and date)			