

**Indian Bureau of Mines**  
**Minerals Development and Regulation Division**  
**MCDR Inspection Report**  
**Hyderabad Regional Office.**

**Mine File No: AP/KNL/Lst-212/HYD**

**Mine Code: 38APR11154**

1) Name of Inspecting officer:	<b>Shri. M.K. Kalmata</b>
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Mr.Ajmal Ahmed.N Sr.DGM. & Shri. MooliMadhu Mohan Reddy, Mines Manager.
4) Date of Inspection	19.01.2024.
5) Date of previous inspection	15-12-2022

**Part-I: General**

S.No.	Particulars	Details
1	Name of the Mine	Kanakadripalli Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	435.24Ha (Non-forest)
3	Mine code	38APR11154
4	IBM Registration Number under rule 45 of	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	The Ramco Cements Ltd., 5th Floor, Auras Corporate Centre 98A, Dr Radhakrishanan Salai , Mylapore Chennai Ph:-08510295444, E-mail:- vssm@ramcocements.co.in
6	Village	Petnikota & Itakala
7	Taluka/Mandal	Kolimigundla
8	District	Nandyal (Earlier Kurnool)
9	Pin code	5181223
10	State	Andhra Pradesh
11	Post office	Kolimigundla
12	Nearest police station	Kolimigundla
13	Nearest Railway station	Tadipatri
14	Date of Grant of Mining Lease	15-02-2000 ( vide G.O.Ms.No.136)
15	Date of Execution	09.08.2000
16	Period	50 years, Valid up to 08-08-2050.

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: P.R.Venketrama Raja, 98A, Auras Corporate Center, Dr.Radhakrishnan Road, Mylapore, Chennai-600004 Phone:044-28478676 Email : vssm@ramcocements.co.in
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Reddy Nagaraju, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. Ph: 8498096000 Email : reddyagaraju@ramcocements.co.in
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Shri.Mooli Madhu Mohan reddy, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. D.O.A:-15-02-2023. Ph: 9994247959 Email : ajmal@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	<b>Mining Engineer</b> : .Mr. Mooli Madhu Mohan reddy <b>Qualification:</b> B.E.Mining D.O.A.: 01.08.2023 <b>Geologist</b> : Mr.Vikas kumar <b>Qualification:-</b> Msc, Geology. <b>DOA</b> : 01.08.2023
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Latest approved document Modified Mining plan AP/KNL/MP/Lst-53/Hyd, dt:- 17-01-2023 for the period 2022-23 to 2024-25.
22	Name of the Mineral	Limestone
23	Method of Mining(Open cast, Underground)	Open cast
24	Category (Fully Mechanized, Others or Manual)	Category – A (Fully Mechanized)
25	Captive/Non Captive	Captive

**PART-II****Exploration :**

<b>Sl. No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
1a	Backlog of previous year	None in the year 2023-24	No exploration is carried out in the year 2023-24.	Total lease area is 435.24Ha and entire lease area is explored under G-1 level by drilling 122 core bore holes.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24	No exploration is carried out in the year 2023-24.	Total lease area is 435.24Ha and entire lease area is explored under G-1 level by drilling 122 core bore holes. However, out of 435.24 Ha, 388.74 Ha is proved as mineralized area and remaining 46.5%Ha is proved as non-mineralized area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None in the year 2023-24	No exploration is carried out in the year 2023-24.	Earlier (2018-19) exploration is carried out by M/s NRDCS, Hyderabad, under the supervision of companies Geologist (Ramco). Total expenditure mad on exploration is Rs

				3125631 for 122 core holes to a total meterage of 2360.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2023-24	No exploration is carried out in the year 2023-24.	Total lease area is 435.24Ha and entire lease area is explored under G-1 level by drilling 122 core bore holes. However, out of 435.24 Ha, 388.74 ha is proved as mineralized area and remaining 46.5%Ha is proved as non-mineralized area.
1e	Balance reserves as on 01/04/2023	In the approved document dated 17/01/2023, Status of reserves/resources is as follows. (as on 01/11/2022) (In million tonnes) Proved M reserves (111) - 85.639, Probable M Reserves (121) - 2.6415, Feasibility M resources (211) - 28.0576 Total:- 116.3381	Reserves/resources as on 01.04.2023 is as follows:- (In million tonnes) Proved M reserves (111) - 85.6281, Probable M Reserves (121) - 2.6415, Feasibility M resources (211) - 28.0576 Total:- 116.3272	Reserves/resources were updated by depleting 10889 tonnes of production carried out from 01/11/2022 to 31.03.2023.

1f	General remarks of inspecting officers on geology, exploration etc.	<p>The lease area hosts kurnool group of rocks of Cuddapah basin. The general geological succession in the area is given below: Soil with or without weathered limestone pebbles- Flaggy Limestone- Grey Massive Limestone- Conglomerate/Quartzite-Shale. The general strike of the formation is NNE to SSW and dip 5 to 7 degree due to SE. The grade range is about 41.97 to 52.09 of CaO% and 3.90 to 16.40 of SiO<sub>2</sub>%. Quartzite: It is the lowermost formation of Kurnool Group of rocks. It is mostly grey in color but brownish and purple colored varieties are also observed. It is fine to medium grained and massive in nature. The grade range is about 0.55 to 26.07 of Cao% and</p>	<p>Total lease area is 435.24Ha and entire lease area is explored under G-1 level by drilling 122 core bore holes. However, out of 435.24 Ha, 388.74 ha is proved as mineralized area and remaining 46.5%Ha is proved as non-mineralized area.</p>
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			41.24 to 93.47 of SiO <sub>2</sub> %.	
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**Development :**

Sl.N o.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work between the co-ordinates 1) N1666445 to 1666530 and E 185235 to 183525 2) N 1666345 to 1666425 and E 185165 to 185248.	Actual working was going on between the co-ordinates 1) N 1666496 to 1666526 & E 185230 to 185322 2) N 1666400 to 1666446 and E 185210 to 185294.	The working was going on within the proposed co-ordinates. (Up to dec-23 for the year 2023-24). Further, Three more slab quarry pits exist within the lease area in the South-western part of the Lease. The said three pits were made by local villagers and present status of the said three quarry slab pits is not available in this office.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in Mineral only.	Benches are existing in mineral only	Lessee is removing topsoil by scraping.

2c	Stripping ratio of ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m <sup>3</sup>	8125 in the year 2023-24.	8258.00	In the PMCP report 14865 CUM topsoil generation is reported for the year 2023-24 . However, it is observed that the said quantity is in tonnes and lessee has not changed the unit by oversight.
2e	Quantity of overburden generation in m <sup>3</sup>	None in the year 2023-24	None in the year 2023-24	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The mine is opening recently and only one small pit is developed by present lessee. Lessee has removed topsoil by scarping for advancement of pit. Further, three irregular slab quarry pits exist in the south western part of the lease area. The three pits were worked by local villagers for slabs and current status of the same is not	

available in this office.

**Exploitation :**

<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
3a	Number of pit proposed for production	One in the year 2023-24.	One in the year 2023-24.	Total four pits are existing within the lease area out of which three pits are mined out pits and are operated by local villagers. And one pit is recently developed by present lessee (M/s Ramco). The dimension of the pit made by M/s Ramco is as follows. 142m(L) x 77m(w) x 1.5m(H).
3b	Quantity of ROM mineral production proposed	100000 tonnes in the year 2023-24.	37968 tonnes in the year 2023-24.	Figures given at actual are up to December 2023. Further, in the approved document main production is inadvertently mentioned as 113000 tonnes.
3c	Recovery of saleable / usable mineral from ROM	100%	100%	

	production			
3d	Quantity of mineral reject generation	None.	None.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of subgrade mineral generation.	None.	None.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	None.	None.	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None.	
3j	Provision of drilling and blasting in mineral benches	yes, Proposed deep hole drilling and blasting.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and loose ammonium nitrate slurry explosive for

				blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed.	Lessee is using combination of excavators and tippers for production and development	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height of 8.00 mtr.	Existing bench height is 1.00 to 1.5 mtrs up to dec 23.	The mine is recently opened and pit is under development.
3m	Total area covered under excavation / pits	7.43 up to 2023-24.	7.066Ha in the year 2023-24.	Out of 7.066Ha, 5.98Ha is pits made for slab quarry for local villagers and only 1.086Ha is made by M/s Ramco cements.
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 Mining:- 7.43Ha, Topsoil stacking:-0.5Ha, Waste dump:- 5.77Ha, Mineral Reject:-0.5Ha, Infrastructure:-	Area under Mining:- 7.066Ha, Waste dump-5.77Ha, Infrastructure-1.532 and Green belt:- 3.99Ha	

		3.10Ha.		
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 100000T 2022-23 - 100000T 2021-22 - 100125T 2020-21 - 100000T 2019-20 - Nil(Lapse)	2023-24- 37968T (up to December 23) 2022-23-10889T 2021-22 - Nil 2020-21 - NiL 2019-20 - Nil	
3q	General remarks of inspecting officers on method of mining etc.		The mine is working by opencast mechanized method. Lessee doing deep hole drilling and blasting for loosening the strata and using combination of excavators and dumpers for production and development. The mine is recently opened and only one small pit of 1.5mt depth is formed so far.	
<b>Solid Waste Management - Dumping :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	Proposed separate dumps for waste rock and temporary dump for mineral.	None in the year 2023-24	However, 15 scattered mineral reject dumps are existing in the south western part

				of the lease area. The dumps were made by local villagers for slab quarry.
4b	Location of topsoil, OB and mineral reject dumps	Proposed OB dump-N 15o 02'55.63" to 15o02'52.37" and E 78o03'57.61" to 78o04'00.97. Mineral dump:- N 15o02'58.00 to 15o02'54.73" TO E 78o03'55.13" to 78o03'58.51" in the year 2023-24.	No dumping was made in the present block period.	Topsoil removed was utilized for making bund. No waste was generated in the present block period. However, 15 scattered mineral reject dumps are existing in the south western part of the lease area. The dumps were made by local villagers for slab quarry.
4c	Number of dumps within lease area and outside of lease area	02 in the year 2023-24 ( one for OB and One for Mineral stack)	None in the year 2023-24	However, 15 scattered mineral reject dumps are existing in the south western part of the lease area. The dumps were made by local villagers for slab quarry.
4d	Location of dumps w.r.t. ultimate pit	Outside the UPL	None in the year 2023-24	

	limit (Rule 16)			
4e	Number of active and alive dumps.	None in the year 2023-24	None in the year 2023-24	
4f	Number of dead dumps.	None in the year 2023-24	None in the year 2023-24	15 scattered mineral reject dumps are existing in the south western part of the lease area. The dumps were made by local villagers for slab quarry.
4g	Number of dumps established.	None in the year 2023-24	None in the year 2023-24	
4h	Whether retaining wall or garland drains all along dumps are there.	None in the year 2023-24	None in the year 2023-24	
4i	Length of retaining wall or garland drain all along dumps.	None in the year 2023-24	None in the year 2023-24	
4j	Number of settling ponds	None in the year 2023-24	None in the year 2023-24	

4k	Specific comments of inspecting officers on waste dump management .		M/s Ramco cements ltd has not made any dumping in the lease area. However 15 mineral reject dumps are existing within the lease area and these dumps are made by local villagers for slab quarry.	
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**Solid Waste Management - Backfilling :**

Sl.N o.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Not proposed.	Nil	No backfilling is proposed in the present plan period.
5b	Area under backfilling of mined out area	Not proposed.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.		Present working is not reached up to the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	
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**Progressive Mine Closure Plan :**

<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	PMCP report submitted on 28.06.2023 along with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	0.3Ha in the year 2023-24.	0.389Ha in the year 2023-24.	
6d	No. of saplings planted during the year	450 saplings in the year 2023-24.	1200 saplings in the year 2023-24.	
6e	Cumulative no. of plants	900 in the current block period up to 2023-24.	2200 in the present block period up to 2023-24.	Total plantation made so far is 8200 saplings covering an area of 3.99Ha.
6f	Any other method of rehabilitation	None in the year 2023-24	None in the year 2023-24	

	n			
6g	Cost incurred on watch and care during the year	1.36Lakhs in the year 2023-24.	2.5lakh in the year 2023-24	for watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation	Nil	Nil	

	and rehabilitation by backfilling (iv) Rehabilitation by making 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 (ii) Method of	Nil	Nil	

	rehabilitation			
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Environmental monitoring in the core and buffer zone is carried out as per the proposal and results are within permissible limits.	Environmental monitoring is carried out by B.S. Envi-Tech. Pvt. Ltd., Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Only plantation was proposed under PMCP in the year 2023-24 and accordingly 1200 saplings are planted in the year 2023-24. So far lessee has planted 8200saplings in the lease area and survival rate is 85 to 90%. Further, lessee is regularly doing environmental monitoring and results are within permissible limits.	
<b>Mineral Conservation:-</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed dispatch of Cement grade ROM to Captive Cement Plant.	Lessee is dispatching Cement grade ROM to Captive plant as proposed.	Lessee is not doing any processing at mine site.

7b	Method of grade wise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Crusher which is existing near the plant area. From crusher point feeding to Captive Cement plant.
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is not doing any mineral processing at the mine site at present and Dispatching ROM Crusher which is existing near the plant area. After crushing feeding to Captive Cement plant linked with the mine.	

**Environment:-**

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Removed about 8258CUM topsoil in the year 2023-24	Entire quantity utilized for plantation work by

8b	Concurrent use or storage of topsoil			
8c	Separate dumps for overburden , waste rock, rejects and fines (Rule 33)	None.	None.	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	None.	None.	
8f	Baseline information on existence of plantation and additional	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining	Additionally lessee has planted about 8200 sapling so far within the lease area.	

	plantation done (Rule 41)	Plan documents.		
8g	Survival rate	95%	85 to 90%	
8h	Water sprinkling on roads to control airborne dust	yes proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 12000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Two pits are existing within the lease area. The benches are made systematically. The topsoil removed so far is utilized for making bunds in the safety barrier and plantation was made on that. About 8200 saplings were planted so far and survival rate is 85 to 90%.	

**Compliance of Rule 45 :**

Sl.N o.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2022-23 on 28-06-2023.

		shall be submitted before the 1st day of July each year for the preceding financial year.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual returns submitted for the year 2022-23, details of Mining Engineer and Geologist are as follows. Mining Engineer:- . Mr.J.Satish Kumar Geologist:- Mr.J.S.S.Naidu Adabala. Mines Manager:-Mr. Mooli Madhu Mohan Reddy	The details furnished in the AR submitted for the year 2022-23 is found correct. However, On the day of inspection it was observed that Shri Mooli Madhu Mohan Reddy is appointed as both Mines Manager and Mining Engineer and Geologist:-Shri Vikas Kumar.	Lessee has sent notice of appoint of Mining Engineer and Geologist to this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining:- 6.047Ha, Ha, Infrastructure:0.965Ha, Green belt:-3.60Ha	The information furnished in the Annual returns submitted for the year 2022-23 is found correct.	
9d	Scrutiny of Annual return on afforestation	1000 saplings with survival rate of 100%		
9e	Scrutiny of Annual return on mineral	None in the year 2022-23.	The information furnished in the Annual Returns submitted for	

	reject generation (Grade and quantity)		the year 2022-23 is found correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM:- Opening and closing stock-Nil, Production:- 10889 tonnes. Grade wise: Cement Grade:- Opening and closing stock- Nil, Production and dispatch:- 10889tonnes.	The details furnished in the AR submitted for the year 2022-23 is found correct.	
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value: Nil, Ex-mine price and cost of production:-Rs 231.74/tonne.	The information furnished in the Annual Returns submitted for the year 2022-23 is found correct.	
9h	Scrutiny of Annual return on fixed assets	Rs- 266134917	is found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel of 1.5CUM capacity-01, tippers:- 19 cum capacity-01.	The information furnished in the returns is correct.	Since the mine is recently opened the machineries were less during 2022-23.

Date:-

(KALMATA.M.K)

Indian Bureau of Mines