

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

**Mine File No: AP/KNL/LST-175/HYD**

**Mine Code: 38APR11120**

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.
4) Date of Inspection	14.12.2023.

**Part-I: General**

S.No.	Particulars	Details
1	Name of the Mine	Kotapadu Limestone mine (Ramco)( Earlier Prism
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	663.46Ha (Non-Forest Land)
3	Mine code	38APR11120
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	Kotapadu
7	Taluka/Mandal	Kolimigundla
8	District	Nandyal (Earlier Kurnool)
9	Pin code	518166
10	State	Andhra Pradesh
11	Post office	Perusomula
12	Nearest police station	Kolimigundla
13	Nearest Railway station	Tadipatri
14	Date of Grant of Mining Lease	NA
15	Date of Execution	11.03.2003
16	Period	50 years, Valid up to 10-03-2053.

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. D.O.A:-25-08-2023. 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 Ajmal Ahmed.N, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. D.O.A:-26-08-2023. Ph: 9390100238 Email : ajmal@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	<b>Mining Engineer</b> : .Mr.R.Jayaker <b>Qualification</b> : B.E.Mining D.O.A.: 26.08.2023 <b>Geologist</b> : Mr.Vijaykumar <b>Qualification</b> :- Msc, Geology. <b>DOA</b> : 26.08.2023
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 Review of Mining plan AP/KNL/MP/LST-73/HYD, dt:- 02-12-2022 for the period 2023-24 to 2027-28.
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.	None in the year 2023-24 up to November 2023.	Entire mineralized area is already explored under G-1 level. Total 142 exploratory boreholes were drilling with a total meterage of 3454.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24.	None in the year 2023-24 up to November 2023.	Entire mineralized area is already explored under G-1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific agency was proposed for exploration.	None in the year 2023-24 up to November 2023.	Earlier, exploration was carried out by Natural Resources Development Co-operative Society Limited & VVN management services Ltd, Hyderabad and expenditure incurred on exploration is Rs 4109847.

1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific agency was proposed for exploration.	None in the year 2023-24 up to November 2023.	Entire mineralized area is already explored under G-1 level. Total 142 exploratory boreholes were drilling with a total meterage of 3454.
1e	Balance reserves as on 01/04/2017	Reserves/resource s as per the approved document dated:02-12-2022 are as follows, (as on 01.09.2022)(In million tonnes) Mineable M Reserves (111) - 115.179, Probable m Reserves(122) - 1.143, Feasibility M Resources (211) - 44.232, Pre-feasibility M resources (222) - 0.456 Total:- 161.01	Reserves/resources as on 01.10.2023, (In million tonnes) Proved M Reserves (111) - 169.437 Feasibility M Resources (211) - 60.414, Total:- 229.851	Reserves/resources are re-estimated based on 16 exploratory bore holes drilled in the year 2022-23.

1f	General remarks of inspecting officers on geology, exploration etc.		This area forms a part of Narji Limestone formations, Kurnool Group of rocks. The general strike direction of the formations are NE - SW to ENE-WSW. In the region, the formations do not exhibit any dip. The limestone bed occurs as near horizontal.	Total lease area is 663.46Ha, out of which 409.60ha is proved as mineralized zone and 253.86Ha as non-mineralized zone by drilling total 142 exploratory boreholes to a total depth of 3454mtrs.
<b>Development :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work between the coordinates N 1666740 to N1666900 & E 196380 to E 196530	Actual working has been carried out between the coordinates N 1666860 to 1666920 and E 196450 to 196500	Working has been not carried out as per the proposal, however, within the proposed coordinates. Further, lessee has submitted MMP for review the proposals so no violation is pointed out for deviation in workings.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	None in the year 2023-24.	None in the year 2023-24 up to November 2023.	

2c	Stripping ratio of ore to OB ratio	1:0	1:0	No waste was removed in the year 2023-24 up to Nov 2023.
2d	Quantity of topsoil generation in m <sup>3</sup>	None in the year 2023-24.	None in the year 2023-24.	
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 was not working properly due to transfer of the lease from Prism cements to M/s. Ramco Cements Ltd. One small single pit was developed. The bench height was 1.5 to 2.00 meters. The mine is under developmental stage and proper working is yet to be done. Lessee has submitted MMP with revised proposals, so no violation is pointed out for deviation in working proposals.	
<b>Exploitation :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>

3a	Number of pit proposed for production	One.	One	Dimension of the pit is 242m (L) x 200m (w) x 1.5 to 2.00m (H)
3b	Quantity of ROM mineral production proposed	75000 tonnes in the year 2023-24.(as per the approved document dated 02-12-2022)	5510 tonnes up to Nov 2023.	Production was achieved only 7% up to Nov 2023 and Lease was transferred from Prism cements to M/s Ramco cements Ltd. M/s Ramco Cements has submitted MMP with revised proposals, so no violation is pointed out for the less production.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
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	None.	None.	

	mineral generation.			
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.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and slurry explosive for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed combination of Excavators and tippers.	Using Excavator of 1.5 CUM capacity and tippers of 19 CUM capacity in the mineral benches.	
3l	Whether height of benches in overburden and mineral suitable for method of	6.00 mtr bench height was proposed.	The mine is not working properly due to lease transfer and one small pit with single bench of 1.5 to 2.00 mtr height is	The proposed bench height is suitable for the method of mining adopted. However, present bench height



	mining proposed in MP/SOM		made.	maintained is only 1.5 to 2.00 mtr.
3m	Total area covered under excavation / pits	3.73ha up to 2023-24.(as per the approved document dated 02-12-2022)	4.83Ha.	Actual are covered under pit is 3.48ha only, however, including topsoil removed area for advancement of the benches, the total area covered under current working is 4.83Ha. Lessee has submitted MMP with revised proposals, so no violation is pointed out for deviation in workings,
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB is handled in the year 2023-24
3o	Total area put in use under different heads at the end of year	Area under workings:- 3.73Ha, Topsoil stack:-2.05 Ha, Infrastructure:- 6.32Ha, Green belt 9.95Ha (as per the approved document dated 02-12-2022)	workings(Pit):- 4.83Ha, Topsoil stack:-2.26Ha, Infrastructure:- 6.32Ha, Green belt:- 9.95	In the MMP proposal was given to remove

3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 75000 tonnes 2022-23 - 50000 tonnes 2021-22 - 25004 tonnes 2020-21 - Nil 2019-20 - NIL	2023-24- 5510 tonnes up to Nov 2023. 2022-23 - 50346 tonnes, 2021-22- 25000T. No production is reported for the year 2020-21 and 2019-20.	Proposal of 2023-24 is as per the approved document dated 02-12-2022. No approved document was available for the period 2020-21 and 2019-20 so proposal and actual figures are nil.
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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.	
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**Solid Waste Management - Dumping :**

<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)	Yes proposed separate dump for topsoil.	None in the year 2023-24 up to November 2023.	Two old topsoil dumps are existing within the lease area.
4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.(as per the approved document	None in the year 2023-24 up to November 2023.	Two topsoil dumps existing within the lease area. Dump

		dated 02-12-2022)		No.1:- N1667440 to 1667550 and E 197000 to 197190 and Dump 2:- N1666975 to 1667010 & E 196650 to 196680.
4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None in the year 2023-24 up to November 2023.	Two topsoil dumps are existing within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None in the year 2023-24 up to November 2023.	One topsoil dump is existing within the UPL. The said dump is temporary and will be shifted and utilized for plantation work in future.
4e	Number of active and alive dumps.	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None in the year 2023-24 up to November 2023.	Two old topsoil dumps are existing within the lease area.
4f	Number of dead dumps.	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None.	None.
4g	Number of dumps established.	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None.	None.

4h	Whether retaining wall or garland drains all along dumps are there.	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None	None.
4i	Length of retaining wall or garland drain all along dumps.	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None	None.
4j	Number of settling ponds	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None	None.
4k	Specific comments of inspecting officers on waste dump management .		No new dump was made in the present plan period up to November 2023. However, two old topsoil dumps are existing within the lease area. the height of the dump is 1.00 to 1.5 mtrs	
<b>Solid Waste Management - Backfilling :</b>				
<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
5a	Status of part or full extraction of mineral from mined out area before	Not proposed.	Nil	No backfilling is proposed in the present plan period.

	starting backfilling			
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.	

**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 29.06.2023 along with the Annual returns submitted for the year 2022-23.

6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	0.10Ha in the year 2023-24.	None up to Nov 2023.	
6d	No. of saplings planted during the year	100 in the year 2023-24.	None up to Nov 2023.	
6e	Cumulative no. of plants	5100	Planted 18000 up to 2022-23.	Approximately 10800 plants are existing with survival rate of 60%. Proper care was not taken during the period of lease transfer.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	None.	Approximately 1.5 lakh.	
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 and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any	Nil	Nil	

	other specific means.			
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 rehabilitation	Nil	Nil	
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.	
6q	General remarks of inspecting officers on PMCP		Only plantation was proposed under PMCP. So far lessee has planted 18000 saplings	



	compliance and progressive closure operations etc.		against the proposal of 5100. Due to transfer of the lease from prism cements to Ramco cements proper care has been not taken in the year 2023-24, so survival rate is only 60%. Advised lessee to taking care of the plantation by engaging manpower.	
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**Mineral Conservation:-**

<b>Sl.N o.</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.	Plant was not set up by the previous Lessee (Prism cements), so ROM generated during the year 2022-23 was dispatched by paying royalty and stacked the dispatched material outside the lease area. Present lessee (M/s Ramco

				cements Ltd) is sending ROM to Captive plant for captive consumption.
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 (Cement grade) 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)	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None in the year 2023-24 up to November 2023.	Topsoil removed earlier was utilized for plantation within the lease area and about 44070 tonnes stacked separately and will be utilized for plantation work and R&R work in

				future.
8b	Concurrent use or storage of topsoil	None in the year 2023-24.(as per the approved document dated 02-12-2022)	None in the year 2023-24 up to November 2023.	Topsoil removed earlier was utilized for plantation within the lease area and about 44070 tonnes stacked separately and will be utilized for plantation work and R&R work in future.
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	None.	None.	

	affected by mining operations (pits, dumps etc.)			
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 18000 sapling so far within the lease area.	Approximately 10800 plants are existing with survival rate of 60%. Proper care was not taken during the period of lease transfer.
8g	Survival rate	None	55 to 60%	(60%) survival rate. Proper care was not taken during the period of lease transfer. Lessee has advised to take care of the plantation by engaging manpower.
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 6000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in		The mine is not working properly due to lease transfer and one small pit with single bench of	

	and around mine areas.		1.5 to 2.00 mtr height is made. Plantation is made in the safety zone.	
<b>Compliance of Rule 45 :</b>				
<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
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 shall be submitted before the 1st day of July each year for the preceding financial year.	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2022-23 on 29-06-2023.
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:- shashank srivastav. Geologist:- Madan Jagirdar. Mines Manager:- shashank srivastav.	The details of Mining Engineer and Geologist Furnished in the AR submitted for the year 2022-23 is found correct. However, after lease transfer M/s Ramco Cements is appointed Mining Engineer, Geologist and Mines manager as follows. Mining Engineer: Mr.R.Jayaker, Geologist:-Mr. C. Vijayakumar,	Lessee has sent notice of appointments to this office.

			Manager:-Mr.Ajmal Ahmad.N	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current workings:- 3.48Ha, topsoil dump:- 2.05Ha, Infrastructure:- 6.2Ha.	workings(Pit):- 4.83Ha, Topsoil stack:-2.26Ha, Infrastructure:- 6.32Ha, Green belt:- 9.95 9( as on Nov 2023)	The details furnished in the AR submitted for the year 2022-23 is appears correct.
9d	Scrutiny of Annual return on afforestation	17000 saplings with survival rate of 80%	Survival rate is 60% only.	(60%) survival rate. Proper care was not taken during the period of lease transfer. Lessee has advised to take care of the plantation by engaging manpower.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock:-0 tonnes, production- 50346 tonnes. Gradewise details:- Cement Grade:-	The information furnished in the AR submitted for the year 2022-23 is correct.	There is a difference of 7 tonnes in the opening and closing stock, lessee has

		Opening stock 14 tonnes, Production 50346 T and dispatch:-49999 tonnes and closing stock- 347 tonnes		mentioned that the difference is due to ground loss. Lessee has advised recheck the same.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Ex-mine price:- Rs 334/T cost of production:-Rs 436.10/ton and sale value is Rs-475.99.	The details furnished in the AR appears mismatching. Since no plant is erected lessee has dispatched the ROM by paying royalty to the State Government and stack the same outside the lease area.	Since the lease is tranfered no details were available with the new lessee, so advise M/s Ramco cements (New lessee) to collect the correct data and revise the Annual returns submitted for the year 2022-23.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed asset is shown as Rs- 855301814	The information furnished in the AR submitted for the year 2022-23 is correct.	
9k	Scrutiny of Annual return on mining machineries	shovel of 0.9 -CUM-02nos. Tippers of 8 cum-02 no. drill machine-01, .	The information furnished in the AR submitted for the year 2022-23 is correct.	

Date:-

(KALMATA.M.K)

Indian Bureau of Mines