

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

Mine File No: AP/KNL/Lst-162/HYD

Mine Code: 38APR11153

1) Name of Inspecting officer:	Shri. M.K. Kalmata
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Mr.Ajmal Ahmed.N Sr.DGM. & Satishkumar J, Mines Manager.
4) Date of Inspection	15.12.2023.

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Chintalayapalle Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	491.55Ha (Non-forest)
3	Mine code	38APR11153
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	Chintalayapalle & Itikyala.
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	15-02-2000
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. D.O.A:-26-09-2020. 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. Satishkumar.J, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. D.O.A:-10-06-2021. Ph: 7993820888 Email : satish@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Mining Engineer : .Mr.VasPhani Rajeev. Qualification: B.E.Mining D.O.A.: 01.08.2023 Geologist : Mr. Naresh Kumar D Qualification: - Msc, Geology. DOA : 23.06.2018
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-51/Hyd, dt:- 19-12-2019 for the period 2020-21 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 :**

Sl. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	There was a proposal to drill 04 exploratory boreholes in the year 2023-24.	The said exploration was completed in the year 2022-23 only.	Total lease area is 491.55 ha and entire area is explored under G-1 level.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed to convert G-2 level to G-1 level.	Drilled 04 exploratory boreholes in the year 2022-23.	Explored entire area under G-1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	In the year 2022-23 exploration was carried out by Natural Resources Development Co-operative Society Limited (NRDCS), Hyderabad during, under the supervision of Geologist of the lessee and expenditure incurred on exploration is Rs 62500 for 04 boreholes.	Before the previous plan period, exploration was carried out by different agencies like MECL and RCL and expenditure incurred on exploration was Rs 3977975, for drilling 149 exploratory boreholes.

1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal was given to explore 17 Ha G-2 explored area into G-1	Covered 17 Ha of G-2 level area into G-1 level by drilling 04 exploratory boreholes in the year 2022-23.	Total lease area is 491.55 ha and entire area is explored under G-1 level.
1e	Balance reserves as on 01/04/2017	Reserves/resource s as per the approved document dated 19-12-2019 are as follows. (In million tonnes) Proved M Reserves(111) - 164.109 Probable M Reserves (122) - 1.874 Feasibility M Resources (211) - 30.694 Total:- 196.677	Reserves/resources as on 01.04.2023.(In million tonnes) Proved Mineral Reserves - 179.535 Feasibility M Resources - 21.417 Total:- 200.952.	Based exploration carried out during the present plan period Reserves/resources were up dated as on 01.10.2022 and updated reserves are as follows (In million tonnes) . Proved M Reserves (111) -180.261 and Feasibility M resources (211) - 21.417 Total 201.678(Submitted Geological report after completion of exploration). Further, the reserves/resources given at column two are updated by depleting

				production carried out from the period 01.10.2022 to 31.03.20230
1f	General remarks of inspecting officers on geology, exploration etc.		The lease area hosts Kurnool group of rocks of Cuddapah basin. Lithology of the lease area is 0.5 to 1.5 mtrs of soil cover followed by Massive limestone and Quartzite. The general strike of the formation is NNW to SSE and dip 3 to 5 degree due to SE.	The total lease area is 491.55Ha and entire area is explored under G-1 level by drilling 153 exploratory boreholes to a total meterage of 3028,

Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	In pit No-1 Proposal was given between the co-ordinates N1664282 to 1664546 and E 188842 to 189173. In pit No-2 proposal is given between the co-ordinates N 1663925 to 1664217 and E 187176 to 187583	Working is carried out between the co-ordinates N 1664175 to 1663980 and E 189070 to 189500 in pit no-1 and Between the co-ordinates:- N1663870 to 1664110 & E 187370 to 187550.	The working has been carried out within the proposed limits but not as per the proposal. The production is not made as per the proposal from Pit-2 and most of the production is achieved from pit -1 only. Lessee has mentioned that

		& N 1663733 to 1663964 and E 187272 to 187687 during the year 2022-23.		working is carried out within the proposed limits and Modification will be submitted with revised proposals for the year 2024-24, so violation is pointed out for deviation in working location.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in Mineral only	Existing benches are in ore only.	The topsoil is removed by scarping and no waste rock is removed in the year 2022-23.
2c	Stripping ratio of ore to OB ratio	1:0.08 in the year 2022-23	1:0	No waste rock was removed in the year 2022-23.
2d	Quantity of topsoil generation in m ³	28300 in the year 2022-23.	68307 in the year 2022-23.	
2e	Quantity of overburden generation in m ³	135400 in the year 2022-23.	None in the year 2022-23.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The deposit is a regular bedded deposit. Two pits are developed to maintained quality of the ore. Bench parameters are	

			maintained as per the proposal.	
Exploitation :				
Sl.N	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	In 2022-23, production was proposed from two pits.	Two pits. However, in 2022-23 working has been not carried out as per the proposal in pit-2. and Most of the production was achieved from pit No-1 only.	The dimension of the pit is as follows:- Pit No.1:-460m (L) x 425m (W) x 6.5M (H) , Pit No.2:- 228m (L) x 156m(W) x 2.5m (H)
3b	Quantity of ROM mineral production proposed	4000000 tonnes in the year 2022-23.	821659 tonnes in the year 2022-23.	Only 20.5% production is achieved in the year 2022-23.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2023-24.	None in the year 2023-24.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of subgrade mineral generation.	None in the year 2023-24.	None in the year 2023-24.	

3g	Grade of subgrade mineral generation.	Not applicable	Not applicable	
3h	Manual / Mechanized method adopted for segregating from ROM	None	None.	Lessee is not doing any processing at mine site. Sending ROM (Cement grade) to Crusher existing outside the lease area by paying Royalty for sizing. From crusher sending to Captive cement plant Linked to the mine.
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None.	Lessee is not doing any processing at mine site. Sending ROM (Cement grade) to Crusher existing outside the lease area by paying Royalty for sizing. From crusher sending to Captive cement plant Linked to the mine.
3j	Provision of drilling and blasting in mineral benches	yes ,proposed deepho;e 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 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 mining proposed in MP/SOM	Proposed 8.00 mtr bench height.	Maintained bench height of 6.00 to 8.00 mtr.(Average 6.5Mtr)	The bench height maintained is suitable for the nature of the deposit and method of mining adopted.
3m	Total area covered under excavation / pits	Area under pits:- 53.33Ha up to 31.03.2025 (as per the approved document dated 19-12-2019)	Area under current working-23.09Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08 in the year 2022-23	1:0	
3o	Total area put in use under different heads at the end of year	Area under mining- 53.33Ha, Infrastructure:- 3.80Ha, Green belt:- 8.90Ha	Area under current working-23.09Ha, Infrastructure:-4.29, Green belt - 17.20Ha	

3p	Production of ROM mineral during the last five year period as applicable	(in Million tonnes) 2022-23 - 4.0 2021-22 - 4.0 2020-21 - 4.0 2019-20 - 4.0 2018-19 - 1.5	(in Million tonnes) 2022-23 - 0.821 2021-22 - 0.021 2020-21 - Nil 2019-20 - Nil 2018-19 - Nil	No production was carried out up to 2020-21. due to want of Statutory clearances.
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. Proposal was given to work in two pits, however, it is observed that most of the production is achieved from pit-1 only. Lessee has mentioned that working is carried out within the proposed limits and Modification will be submitted with revised proposals for the year 2024-24, so violation is pointed	

out for deviation in working location.

Solid Waste Management - Dumping :

Sl.N o.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	No dumping was proposed in the year 2022-23.	None.	No OB was generated in the year 2022-23, the topsoil generated is utilized for making bunds along the safety zone as per the proposal and plantation will be made on that. Further, the waste rock generated as intercalated waste is utilized for haul road work
4b	Location of topsoil, OB and mineral reject dumps	None.	None. The topsoil removed is utilized for making bunds along the 7.5 mtr safety barrier.	
4c	Number of dumps within lease area and outside of lease area	None.	None.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None	None	
4e	Number of active and alive dumps.	None	None	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	None	None	
4h	Whether retaining wall or garland drains all along dumps are there.	None	None	
4i	Length of retaining wall or garland drain all along dumps.	None	None	
4j	Number of settling ponds	None	None	
4k	Specific comments of inspecting officers on waste dump management .		No dumping was made in the present plan period. The waste generated earlier, was utilized for making haul roads as per the proposal and topsoil generated is utilized	

			for making bunds in the 7.5 mtr safety zone.	
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		Present working is not reached up to the proved depth and no proposals were made for reclamation and	

	etc.		rehabilitation in the present plan period.	
Progressive Mine Closure Plan :				
Sl.No.	Item	Proposals	Actual Work	Remarks
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 26.06.2023 along with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	1.0Ha in the year 2022-23	5.7Ha in the year 2022-23.	Total area covered under plantation is 13.07Ha
6d	No. of saplings planted during the year	2000 saplings in the year 2022-23.	Planted 18600 saplings in the year 2022-23.	
6e	Cumulative no. of plants	10000 saplings in the present five year block period of 2020-21 to 2024-25.	Total 32570 saplings were planted in the present block period up to 2022-23	Total plantation made so far is 37570
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during	5.0lakh	Approximately 12 lakhs.	Plantation and watch and care charges.

	the year			
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)Rehabilit	Nil	Nil	

	ation 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 rehabilitation	Nil	Nil	
6p	Compliance of environment	Yes, Air, Water and Noise monitoring was	Environmental monitoring in the core	Environmental monitoring is

	al monitoring (core zone and buffer zone)	proposed in Core and Buffer zone.	and buffer zone is carried out as per the proposal and results are within permissible limits.	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 Total 32570 saplings were planted in the present block period up to 2022-23.Total plantation made so far lessee has planted 37570 saplings against the proposal of 10000 and survival rate is 85 to 90%.	

Mineral Conservation:-

Sl.N o.	Item	Proposals	Actual Work	Remarks
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.	Topsoil removed separately.	Topsoil removed is utilized for making bunds in the safety barrier and plantation will be made on the same.
8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrent use.	Topsoil removed is utilized for making bunds in the safety barrier and plantation will be made on

				the same.
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 plantation done (Rule	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 37570 saplings so far within the lease area.	

	41)			
8g	Survival rate	None.	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 ltrs 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 3757000 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 shall	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2022-23 on 26-06-2023.

		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:- Ajmal Ahmed.N. Geologist:- Naresh Kumar D. Mines Manager:- Satishkumar.J	The details of Mines Manager & Geologist furnished in the AR submitted for the year 2022-23 is found correct.	Lessee has sent notice of appointments to this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current workings:- 11.659,Infrastructure -2.912Ha, Green belt-13.07Ha	The details furnished in the AR submitted for the year 2022-23 is found correct.	However, as on Nov 2023, the land use details are as follows:- Area under current workings-23.09Ha, Infrastructure:- 4.29, Green belt - 17.20Ha
9d	Scrutiny of Annual return on afforestation	18600 saplings with survival rate 100%.	The information furnished in the AR submitted for the year 2022-23 is found correct.	Actual survival rate is 85 to 90%.
9e	Scrutiny of Annual	NIL	NIL	

	return on mineral reject generation (Grade and quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock-0, production:-821659 tonnes. Entire ROM removed is shown as dispatched as Cement Grade and stock are nil.	The information 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	Ex-mine price and cost of production is Rs- 216.62/tonne.	The information furnished in the AR submitted for the year 2022-23 is found correct.	The mine is captive mine and Entire production is consumed by captive cement plant and sale is nil only. So sale value is shown as zero.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets is mentioned as Rs- 482940291	The information furnished in the AR submitted for the year 2022-23 is found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) - 1.5cum, Tippers 19cum-02	The information furnished in the AR submitted for the year 2022-23 is found correct.	

Date:-

(KALMATA.M.K)

Indian Bureau of Mines