

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

Mine File No: AP/ANP/Lst-34/HYD

Mine Code: 38APR11155

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. & Shri.Bheemraj Ponnebonia, Mines Manager.
4) Date of Inspection	14.12.2023(A/N).

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Kolimigundla Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	255.00Ha (Non-forest)
3	Mine code	38APR11155
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	Kolimigundla, Itikyala & Kalvatla
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 (vide G.O.Ms.No.139)
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.Bheemraj Ponnebonia,, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. D.O.A:-10-06-2021. Ph: 9441344224 Email : bheemraj@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Mining Engineer : .Mr.Vignesh G Qualification : B.E.Mining D.O.A.: 01.08.2023 Geologist : Mr.Vinod Kumar.B Qualification :- Msc, Geology. DOA : 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-52/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	Proposed 17 number of exploratory boreholes in the year 2023-24.	The exploration was completed in the year 2022-23 only.	Lessee has drilled 17 exploratory boreholes in the year 2022-23.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed to convert 120Ha of G-2 level explored area to G-1.	17 boreholes were drilled in the year 2022-23.	Converted 120 ha to G-1level. Entire area is explored under G-1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed Exploration agency and expenditure were not mentioned in the approved document dated 19-12-2019.	Expenditure incurred on exploration is Rs, 798750 during the year 2022-23.	Total expenditure incurred on exploration so far is Rs 2498695 and exploration is carried out by lessee only.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed to convert 120Ha of G-2 level explored area to G-1.	Converted balance area of 120 Ha into G-1 level, earlier which was under G-2 level.	As on date entire lease area is explored under G-1 level, by drilling 90 exploratory boreholes to a total meterage of 1603.

1e	Balance reserves as on 01/04/2017	As per the approved document dated 19-12-2019, reserves/resources are as follows, (Unit:-In million tonnes) Proved M Reserves(111) - 32.950, Probable M Reserves(122) - 6.170, Feasibility M Resources(211) - 16.048, Pre-feasibility M Resources(222) - 9.658, Total:- 64.826	Based on the exploration carried out during the year 2022-23, reserves/resources were re-estimated as follows. (Unit in million tonnes) Proved Mineral Reserves (111) - 33.966 Feasibility M resources (211):- 40.087, Total:- 74.053	Lessee has submitted Geological report after completion of the exploration and in the GR Reserves/resources was updated. Review of Mining plan is due for the block period 2025-26 to 2029-30 and advised lessee to update the reserves/resources in the RMP due for the said period.
1f	General remarks of inspecting officers on geology, exploration etc.		The lease area hosts kurnool group of rocks of Cuddapah basin. Lithlogy of the lease area is 0.5 to1.5 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 entire lease area is explored under G-1 level by drilling 90 exploratory boreholes and reserves/resources were re-estimated based on the exploration carried out in the year 2022-23 and submitted GR.
Development :				
Sl.N o.	Item	Proposals	Actual Work	Remarks

2a	Location of development w.r.t. lease area	<p>In the year 2022-23, there was a proposal to work between the coordinates Pit 1(Block-1) :N1666962 to 1667168 & E 189581 to 189787 & N 1666999 to 1667131 to E 189822 to 189964. In pit 2(Block-4) N1668033 to 1668224 7 E 191129 to 191320. In the year 2023-24, there was a proposal to work between the coordinates Pit No-1 (Block 1): N1666795 to1667095 & E 189618 to 189930. Pit No-2 (Block-4):- N 1668040 to 1668195 & E 191135 to 191295.</p>	Working was carried out only in Pit no-1 (Block-1) and working was extended beyond the proposed limits.	Violation is pointed out for deviation in working proposals under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in Mineral only	Benches were made in the Mineral only.	Topsoil is removed by scraping and thickness of the soil cover is 0.5 to 1.00 mtr.

2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB/ waste rock is removed.
2d	Quantity of topsoil generation in m ³	34900 in the year 2022-23	34325 in the year 2022-23.	Most of the topsoil generated is utilized for making bunds in the safety zones /barriers and plantation was made on it.
2e	Quantity of overburden generation in m ³	None.	None.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The deposit is Regular bedded deposit and the formation is hard. Proposed benches of 8.00 mtr height of 6.00 to 7.00 mtrs. There was a proposal to work in two pits in the year 2022-23 and 2023-24, however, working has been carried out in only one pit and violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	Two pits	One.	Dimension of the pits is as follows:-

				<p>Pit1:-380m (L) x 295m (w) x 12m(h), Pit no.2:- 110m(L) x 84m (W) x 7m(h). In the year 2022-23 & 2023-24 working has been carried out in pit no 1 only. Violation is pointed out for the same under Rule 11(1) of MCDR 2017.</p>
3b	Quantity of ROM mineral production proposed	6, 00,000 tonnes in the year 2022-23.	5, 99,997 tonnes in the year 2022-23.	Production achieved is 99.99% in the year 2022-23.
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 mineral generation.	None.	None.	
3g	Grade of subgrade mineral	Not applicable.	Not applicable.	

	generation.			
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 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	Proposed 8.00 mtr bench height.	Maintained bench height 6.00 to 7.00 mtr.	The bench height proposed and maintained is suitable for the type of the deposit and method of mining adopted.

	MP/SOM			
3m	Total area covered under excavation / pits	14.51Ha in the present block period i.e up to 31.03.2025.	Area under Mining:- 12.127Ha	up to September 2023.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/ waste rock is removed in the present five year block period..
3o	Total area put in use under different heads at the end of year	Area under Mining:- 14.51Ha, Topsoil dump:-0.5Ha, Mineral storage:- 0.5Ha, Infrastructure:- 4.10Ha, Green belt:- 7.00Ha.	Area under Mining:- 12.127Ha, Topsoil dump:-0.5Ha, Infrastructure:- 10.352Ha, Green belt:-10.12Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 600000T 2022-23 - 600000T 2021-22 - 600000T 2020-21 - 600000T 2019-20 - 600563T	2023-24 - 473890T (up to Nov 2023) 2022-23- 5,99,997T 2021-22 - 2,22,195T 2020-21 - Nil 2019-20 - Nil	Due to want of EC and other Statutory clearances no production was reported during the year 2019-20 & 2020-21. & in 2021-22 production achieved is only 37%. Violation is pointed out under Rule 11(1) of MCDR 2017 for deviation in proposals to

				actual figures.
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. In the year 2022-23 and 2023-24 up to Nov 2023, Proposal was given to work in two pits, however, working was carried out in one only and violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Solid Waste Management - Dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	yes proposed separate dumping of topsoil	Topsoil removed is stacked separately.	Most of the topsoil generated is utilized for making bunds in the safety

				zones /barriers and plantation was made on it.
4b	Location of topsoil, OB and mineral reject dumps	N1667415 to1667355 & E 191110 to 191190	A small dump is made between the co-ordinates N1667343 to 1667398 and E191240 to 191255.	Further, topsoil is spread in the safety barriers and plantation was made on that.
4c	Number of dumps within lease area and outside of lease area	One	One small dump existing within the lease area.	Further, topsoil is spread in the safety barriers and plantation was made on that.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
4e	Number of active and alive dumps.	One	One	
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	None.	None.	

	retaining wall or garland drain all along dumps.			
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officers on waste dump management .		One small dump existing within the lease area. And height of the dump is 1.0 to 1.5 mts only. Most of the topsoil generated is utilized for making bunds along the safety barrier and plantation was made on that. No waste/OB dump is proposed and made.	
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	Not proposed.	Nil	

	topsoil for restoration or rehabilitation of mined out area (Rule 32)			
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 :

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 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)	1.0Ha in the year 2022-23.	8.00Ha in the year 2022-23.	10.12 ha up to end of 2022-23.
6d	No. of saplings	2000 in the year	21165 saplings in the	Plantation was made more than

	planted during the year	2022-23.	year 2022-23.	the proposal.
6e	Cumulative no. of plants	10000 saplings in the present plan period up to 2024-24.	34200 saplings	Plantation was made more than the proposal.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	None	Approximately 10 laks.	Plantation and watch and care charges.
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	Nil	Nil	

	rehabilitation by backfilling (iii) Afforestation on backfilled area			
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 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	Nil	Nil	

	lease (ii) Area rehabilitatio n (ha)			
6o	Compliance of rehabilitatio n of waste land within lease (ii) Method of rehabilitatio n	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 compliance and progressive closure operations etc.		Only plantation was proposed under PMCP. So far lessee has planted 34200 saplings against the proposal of 10000. And survival rate is 90 to 95%.	

Mineral Conservation:-

Sl.N o.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease	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.

	area			
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	Most of the topsoil generated is utilized for making bunds in the safety zones /barriers and plantation was	Most of the topsoil generated is utilized for making bunds in the safety zones

			made on it.	/barriers and plantation was made on it.
8b	Concurrent use or storage of topsoil	Concurrent use	Most of the topsoil generated is utilized for making bunds in the safety zones /barriers and plantation was made on it.	A small quantity of topsoil is stored in the block no-3 of the lease area.
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	None.	None.	

	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 34200 saplings so far within the lease area.	
8g	Survival rate	None.	90 to 95%	
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 34200 saplings were planted so far and survival rate is 90 to 95%.	

Compliance of Rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
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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 26-06-2023.
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:- Mr.k. Venkatarami reddy. Geologist:-Vallepu Prasad. Mines Manager:-Bheemraj.	Mining Engineer:- Vignesh, Geologist:- Vinod Kumar and Mines manager:- Bheemaraj	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.	In the annual returns submitted for the year 2022-23 the land use details furnished are as follows:-area under current working- 5.180Ha, Infrastructure- 10.352Ha, Green	Area under Mining:- 12.127Ha, Topsoil dump:-0.5Ha, Infrastructure:- 10.352Ha, Green belt:- 10.12Ha.	The actual land use pattern is given as on November 2023, based on latest survey. However, the details furnished in the AR submitted for the year 2022-

		belt:-10.12Ha.		23 is found correct.
9d	Scrutiny of Annual return on afforestation	21165 saplings with survival rate 100%	The information furnished on plantation is found correct. However, survival rate is 90 to 95%.	
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, production- 599997 tonnes. The entire ROM produced is dispatched to Captive plant under Cement Grade.	The details furnished in the Annual returns 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-0, cost of production and Ex-mine price:- Rs 185.86/tonne	The details furnished in the Annual returns submitted for the year 2022-23 is found correct.	
9h	Scrutiny of Annual return on fixed assets	Rs 233937010	The details furnished in the Annual returns submitted for the year 2022-23 is found	

			correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel 1.5Cum-01, tippers of 19 CUM-02	The details furnished in the Annual returns submitted for the year 2022-23 is found correct.	Additionally lessee is using drilling machine of 115mm capacity and advised given the details of the same in the AR.

Date:-

(KALMATA.M.K)

Indian Bureau of Mines