

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

Mine File No: AP/KNL/Lst-213/HYD

Mine Code: 38APR11156

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.Aleti Mahipal Reddy, Mines Manager.
4) Date of Inspection	14.03.2024.
5) Date of previous Inspection	16-12-2022

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Nayanapalli (block) Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	735.72Ha (Non-forest)
3	Mine code	38APR11156
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
7	Taluka/Mandal	Kolimigundla
8	District	Nandyal (Earlier Kurnool)
9	Pin code	518123
10	State	Andhra Pradesh
11	Post office	Petnikota
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.137)
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.Aleti Mahipal Reddy,, The Ramco Cements Ltd, Kalvatala Project, Kolimigundla, Nadyala Dist, A.P.-518123. D.O.A:-03-07-2023. Ph: 9701024322 Email : mahipalreddy.aleti@gmail.com
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Mining Engineer : .Mr. Aleti Mahipal Reddy Qualification: B.E.Mining & F.C.C D.O.A.: 01.08.2023 Geologist : Mr.G S S Naidu Adabala 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-51/HYD, dt:- 18-01-2023 for the period 2022-23 to 2024-25(MMP period) (Block 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	None in the year 2023-24.	No exploration is carried out in the year 2023-24.	Entire Mineralized area is already explored under G-1 Level.
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.	Entire Mineralized area is already explored under G-1 Level.
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, exploration is carried out by Natural Resources Development Cooperative Society Limited (NRDCS), Hyderabad, under the supervision of company Geologist. Total 213 exploratory boreholes were drilled so far and expenditure incurred is Rs 5953142.

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 735.72Ha out of which 663.75Ha is mineralized area and remaining 71.97Ha is Non-mineralized. Entire mineralized area is explored under G-1 level by drilling 213 exploratory bore holes to a total meterage of 4321.
1e	Balance reserves as on 01/04/2017	As per the approved document dated 18/01/2023 status of ,Reserves/resources is as follows.(As on 01/11/2022) (In million tonnes) Proved Mineral Reserves (111) - 238.8164 Feasibility M resources(211) - 37.5862 Total:- 276.4026	Reserves/resources as on 01.04.2023 is as follows.(In million tonnes) Proved Mineral Reserves (111) - 238.7979 Feasibility M resources(211) - 37.5862 Total:- 276.3841	Reserves/resources were updated by depleting 18424 tonnes of production achieved from 01.11.2022 to 31.03.2023.

1f	General remarks of inspecting officers on geology, exploration etc.		<p>The limestone deposit within the mining lease hold area forms a part of Narji Limestone formation of Kurnool group. The Narji formation limestone is sub divided into distinct lithological units.</p> <p>The general geological succession in the area is given below: Soil with or without weathered limestone pebbles Flaggy Limestone Massive Limestone Conglomerate Quartzite</p> <p>The general strike direction of the beds are NNW-SSE and dip direction of the deposit is towards South West with dip angle less than 5 degree.</p>	Total lease area is 735.72Ha out of which 663.75Ha is mineralized area and remaining 71.97Ha is Non-mineralized. Entire mineralized area is explored under G-1 level by drilling 213 exploratory bore holes to a total meterage of 4321.
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Development :				
Sl.No.	Item	Proposals	Actual Work	Remarks

2a	Location of development w.r.t. lease area	In the year 2023-24, was a proposal to work between the co-ordinates Pit No:-1, N1669980 to 1670365 and E 187970 to 188465 and PitNo.2:- N 1670002 to 1670250 and E 187645 to 187833	In the year 2023-24 Actual working is carried out between within the proposed co-ordinates only.	
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	In the year 2023-24, benches proposed in mineral only.	Benches are exists in mineral only.	No OB Generation is proposed in the present block period and topsoil is removed by scarping.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	61200 in the year 2023-24.	20239 in the year 2023-24.	Production is achieved only 2.5% in the year 2023-24, so development is not made as per the proposal so only 20239 cum topsoil is removed against the proposal of 61200 cum.
2e	Quantity of overburden generation in	None in the year 2023-24.	None in the year 2023-24.	

	m3			
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		Only 2.5% production is achieved in the year 2023-24, so the pit is not developed as per the proposal.	

Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	In the year 2023-24, Production was proposed in two pits	Production was achieved from one pit only.	Only 2.5% production is achieved in the year 2023-24. So working has been carried out in one pit only. Present lessee has made two pits in the lease area and dimension of pits is as follows. Pit-1: 150m(l) x 103m(w) x 8m(h) and Pit no-2 175m(L) x 74m(w) x 5m(h). Further, 22 small old slab quarry pits (worked out) are existing within the lease area. These pits are made by local for slab quarry.
3b	Quantity of ROM mineral production	2700000 tonnes in the year 2023-24	70022 tonnes	Only 2.5% production is

	proposed			achieved in the year 2023-24.
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.	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.	Using Combination of excavators and tippers for production and development.	Additionally using rock drilling machine of 115mm for drilling blast holes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8.00 mtr bench height is proposed in mineral and OB and topsoil benches are proposed in the present block period.	Maintained bench height of 3.00 to 4.00 mtr only.	The mine is recently opened and pit is under development. The production is achieved only 2.5% in the year 2023-24, so, working has not reached the proposed depth and area.
3m	Total area covered under excavation / pits	Area under Mining- 27.08Ha in the year 2023-24.	Area under mining 5.399Ha.	Out of which only 2.84 ha is made by present lessee and remaining is area is pits covered by old slab quarry made by locals.

3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/waste handling is proposed and made in the year 2023-24.
3o	Total area put in use under different heads at the end of year	Area under mining- 27.08Ha, Topsoil stacking-3.30Ha, OB/waste dump- 1.0Ha, Mineral Reject:-6.80Ha, Infrastructure:- 4.06Ha.	Area under Mining:- 5.399Ha, Topsoil:-Nil, Mineral Reject dumps(Old);-5.80Ha., Infrastructure:- 1.495Ha.	
3p	Production of ROM mineral during the last five year period as applicable	(In million tonnes) 2023-24 - 2.7 MT 2022-23 - 2.7MT 2021-22 -		
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 production achieved is very less and bench pits are not developed as	

proposed.

Solid Waste Management - Dumping :

Sl.N o.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	Proposed separate dump for waste rock.	None in the year 2023-24.	In the approved document there is no proposal for generation waste. However, by anticipating intercalated waste rock generation proposal was given for waste dump. However, no waste is generated in the year 2023-24 and no dumps are formed.
4b	Location of topsoil, OB and mineral reject dumps	Proposed waste dump: N 15o06' 11.09" to 15o06'7.50" and E-78o05'16.24" to 78o05'19.25"	No waste rock is generated in the present block period and waste dump is made by present lessee up to 2023-24.	However, 23, mineral reject dumps covering an area of 5.8Ha made by locals for slab quarry are available within the lease area
4c	Number of dumps within lease area and	None in the year 2023-24.	None in the year 2023-24.	23 old mineral reject dumps are exiting within the

	outside of lease area			lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None in the year 2023-24.	None in the year 2023-24.	Old dumps are existing within UPL also and same will be shifted during pit advancement in consultation with the State Government.
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.	Old dumps are existing within UPL also and same will be shifted during pit advancement in consultation with the State Government.
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.	Proposed retaining wall and garland drains in the year 2023-24.	None in the year 2023-24.	No waste was generated in the present block period and no dumps are formed so far by the present lessee. So no retaining wall and garland drains

				are made as proposed.
4i	Length of retaining wall or garland drain all along dumps.	1510 mtrs	None in the year 2023-24.	No waste was generated in the present block period and no dumps are formed so far by the present lessee. So no retaining wall and garland drains are made as proposed.
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 .		No waste rock is generated in the present block period and no waste dump was made by the present lessee. However, 23 old mineral reject dump made by locals for slab quarry are existing within the lease area. Since no waste dumps are formed Retaining walls and garland drains are not 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 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 upto the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	
Progressive Mine Closure Plan :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time	PMCP report submitted on 27.06.2023 along

	PMCP submitted on time and correctly. Rule 26(2)		limit.	with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha)	None in the year 2023-24.	None in the year 2023-24.	
6c	Afforestation done (ha)	1.0Ha in the year 2023-24.	6.551Ha in the year 2023-24.	Plantation is made more than the proposal.
6d	No. of saplings planted during the year	1500 saplings in the year 2023-24.	36000 saplings in the year 2023-24.	Plantation is made more than the proposal.
6e	Cumulative no. of plants	4160 in the present block period 2021-22 to 2023-24.	41500 saplings	To comply the EC condition plantation was made more than the proposal. The said plantation is made in the 7.5 safety zone and 50mtr safety barrier from public Road.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	Rs 450000 in the year 2023-24.	Approximately 12 lakhs.	Plantation and watch and care charges.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	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	Nil	Nil	

	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 environmental	Yes, Air, Water and Noise monitoring was proposed in Core and	Environmental monitoring in the core and buffer zone is	Environmental monitoring is carried out by M/s

	monitoring (core zone and buffer zone)	Buffer zone.	carried out as per the proposal and results are within permissible limits.	B.S.Envi-Tech- Pvt.Ltd. Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		There was a proposal to construct retainin walls and made garland drains along the toe of the dumps . However, production is achieved only 2.5% and no dumps were formed as proposed so no retaing wall and garland drains were made in the present plan period. However against the proposal of 1500 plantation in the year 2023-24, lessee has made 36000 plantation in the year 2023-24 and total plantation made so far is 41500. 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 is removed separately by scarping.	20239 CUM topsoil is removed in the year 2023-24.

8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrent use.	The topsoil removed is utilized for making bund in the safety zone/barriers and plantation was made on that.
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 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 41500 sapling so far within the lease area.	
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 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		The mine is recently opened and two small pits are developed by present lessee. However addition to this about 22 small irregular old slab quarry pits and 23 mineral reject dumps generated by slab quarry pits are existing in the lease area. The topsoil generated in the present block period is utilized for making bunds in the safety barriers and plantation purpose.	

Compliance of Rule 45 :

Sl.N	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 27-06-2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the Annual returns submitted for the year 2022-23 details are as follows:- Mining Engineer:- Mr.Jayakar.R, Geologist:-Mr.Vikas Kumar and Mines Manager:- Mr.Ajmal Ahmed N.	The details furnished in the Ar submitted for the year 2022-23 are found correct. However, on the day of inspection it was observed that Mining Engineer and Mines Manager is Mr. Aleti Mahipal Reddy and Geologist:- Mr.G S S Naidu Adabala	Lessee has sent notice of appointment for the 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:- 5.017Ha, Infrastructure:- 1.409Ha, Green Belt:- 2.681Ha.	Area under Mining:- 5.399Ha, Topsoil:-Nil, Mineral Reject dumps(Old):-5.80Ha., Infrastructure:- 1.495Ha.	The land use pattern given is as on march 2024 so there is deviation in figures in AR submitted for the year 2022-23 and actual. Further, in the returns

				submitted for the year 2022-23, area covered by dumps of slab quarry were not given, advised lessee to include the same in the returns.
9d	Scrutiny of Annual return on afforestation	1500 sapling and 100% survival rate in the year 2022-23.	The details furnished in the Ar submitted for the year 2022-23 is found correct.	However, it appears survival rate is 85 to 90%.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None in the year 2023-24.	None in the year 2023-24.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	TOM:- Opening and closing stock:NIL, Production 18424 tonnes. And entire ROM is dispatched under Cement Grade to the captive plant linked to the mine.	The information 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:-Nil, Ex-mine price and cost of production:- Rs 249.06/T	The mine is recently opened and production is very less, so cost of production is bit high compare to the mines belongs to the same lessee in the	

			same area.	
9h	Scrutiny of Annual return on fixed assets	Rs-339120026	The information furnished is found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel of 1.5CUM capacity:- 01, tipper of 19 CUM -01.	The details furnished in the AR are found correct.	

Date:-

(KALMATA.M.K)

Indian Bureau of Mines