

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

Mine File No: AP/KSN-28/Hyd

Mine Code: 38APR10031

1) Name of Inspecting officer:	Shri. M.K. Kalmata
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Mr.P.Jani Reedy, Agent & Mr. P.B.Koteswara Kumar, Mines Manager.
4) Date of Inspection	10.11.2023.

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Budawada Limestone Mine (Ramco)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	160.Ha (Forest Land)
3	Mine code	38APR10031
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., Kumarasamyraja Nagar, Jaggayyapet_Mandal, NTR District, Andhra Pradesh-521457. Ph:- 04428478666, Fax: 04428478676, E-mail:- vssm@ramcocements.co.in
6	Village	Jaggayyapet
7	Taluka/Mandal	Jaggayyapet
8	District	NTR
9	Pin code	521457
10	State	Andhra Pradesh
11	Post office	KSR Nagar
12	Nearest police station	Jaggayyapet
13	Nearest Railway station	Bonakallu
14	Date of Grant of Mining Lease	30.10.2008
15	Date of Execution	17.03.2009
16	Period	50 years, Valid up to 16-03-2059.

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 P Jani Reddy, KSR Nagar, Jaggayyapet,NTR District, AndhraPradesh. D.O.A:-01-08-2017. Ph: 08654 224400-09 Email : pjr@ramcocements.co.in
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Shri P.Balaji Koteswara Kumar, KSR Nagar, Jaggayyapet, NTR District,Andhra Pradesh. D.O.A:-20-01-2020. Ph: 08654 224400-09 Email : bkkp@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Mining Engineer : .Balaji Koteswara Kumar Qualification: B.E.Mining D.O.A.: 20.01.2020 Geologist : Siva Nagaraju Qualification:- Msc, Geology. DOA : 04.02.2023
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	1) Approval of Mining Plan No : MS/AP/KSN/Lst-138-SZ Dated : 02.04.2007. 2) Scheme of Mining: No.-AP/SN/MP/LST-30-HYD, dt:-27.10.2014. 3) MMP:-No-AP/KSN/MP/LST-30-HYD, dt;01.04.2019. 4) MMP; no-AP/KSN/MP/LST-30/HYD, dt:-08-07-2021. 5) MMP:-No. AP/KSN/MP/LST-30/Hyd, dt;21-04-2023.
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	No exploration was proposed in the year 2022-23.	None in the year 2022-23.	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 2022-23.	None.	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 2022-23.	None.	Earlier, the exploration is carried out by lessee only and expenditure incurred on exploration is Rs-5800000
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2022-23.	None.	Entire Mineralized area is already explored under G-1 Level.

1e	Balance reserves as on 01/04/2017	Reserves/resource s as per the approved document dated 21.04.2023 are as follows. (Unit in million tonnes) (as on 31.01.2023) Proved M Reserves (111) - 134. 067, Feasibility m Resources (211)- 65.901, Pre-feasibility M resources(221)- 15.036, Total:- 215.004	Reserves/resources as on 01.11.2023 are as follows. (Unit in million tonnes) Proved M Reserves(111) - 132.852, Feasibility m Resources (211)- 80.937, Total:- 213.789	Reserves/resources were updated by depleting the production carried out for the period 01.02.2023 to 31.10.2023.
1f	General remarks of inspecting officers on geology, exploration etc.		Ramco Budawada Limestone Mining Lease area lies in the Northeastern margin of the Palnad sub basin of the Kurnool sedimentary basin overlying the Cuddapah supergene of rocks. The general strike of the formation is NE to SW and dip 2 to 5 degree towards EW.	Total lease area is 160 Ha and entire lease area is explored under G-1 level of exploration by drilling 54 core holes to a total depth of 3100
Development :				
Sl.N	Item	Proposals	Actual Work	Remarks

0.				
2a	Location of development w.r.t. lease area	There was a proposal to work between the co-ordinates N 1864050 to N1864410 and E 401420 to E 401780 in the year 2023-24.	Actual Working was going on between the co-ordinates N 1864050 to N 1864540 and E 401510 to E 401810 (up to 31.10.2023)	The working was going on within the proposed co-ordinates.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in ore only.	Benches are existing in ore only.	Proposed handling of only intercalated waste.
2c	Stripping ratio of ore to OB ratio	1:0.02 in the year 2022-23	1:0	No OB was removed in the year 2022-23.
2d	Quantity of topsoil generation in m ³	None.	None.	
2e	Quantity of overburden generation in m ³	3039	None.	No intercalated waste was encountered in the ore benches as proposed.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The deposit is hard and bedded type. Two benches were formed in the pit 1(active pit) and height of the benches were kept 7.00 to 8.00 mtrs and width more than 30 mtr.	

Exploitation :				
Sl.N	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	One in the year 2022-23	One in the year 2022-23.	Total two pits are existing within the lease area and dimension of the pits are as follows Pit-1 (Active pit):- 405m (L) X 205m (W) X 16m(h) & Pit 2 (Inactive):- 170m(L) X26.5m (w) X 8m(h)
3b	Quantity of ROM mineral production proposed	506193 tonnes in the year 2022-23.	466400 tonnes in the year 2022-23 and 879016T in the year 2023-24 9 up to Oct 23) against the proposal of 2500000T	In the approved MMP dated 070702021, proposal was given to produce 1103384 tonnes of ROM in the year 2022-23, However, the approved MMP was again modified on 21.04.2023, in that proposal was given to produce 372262 tonnes of ROM in the remaining two months of 2022-23(Feb & March 23) .So, in the proposals column figures were given

				by adding actual production carried out up to January 2023 for the year 2022-23 and proposal of remaining two months.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2022-23.	None in the year 2022-23.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of subgrade mineral generation.	None in the year 2022-23.	None in the year 2022-23.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanical	None.	Proposal was given to use crusher of 950TPH capacity. However since the erection of crushing plant was not completed

				lessee was sending ROM to Cement plant without processing.
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 Excavators of 1.1 & 2.3 CUM capacity and tippers of 19 CUM capacity in the mineral benches.	Additionally, lessee is using 155mm dia drilling machine for drilling blast holes and dozer for haul road repair work.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8.00 mtr benches in ore and no OB benches were proposed.	Maintained bench height average 7 to 8.00 mtrs.	The bench height proposed and maintained is suitable for the method of mining adopted.

3m	Total area covered under excavation / pits	Area under Mining:- 11.35 Ha.	Area under Mining:- 8.75Ha (As on 31.10.2023)	
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	Recovery is 100% and no OB is removed in the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under Mining:- 11.35 Ha, Dumps- 0.20Ha, Infrastructure (Buildings, roads, railway line):-22.35 Ha	Area under Mining:- 8.75Ha, Dumps(Mineral stacks:- 1.60Ha, Infrastructure:22.10Ha (As on 31.10.2023)	However, in the approved RMP for the period 2024-25 to 2028-29, area under pit at the start of the year is mentioned as 11.75Ha considering working up to 31.03.2024.
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 2500000T 2022-23 - 506193T 2021-22 - 1134370T 2020-21 - 1118692T 2019-20 - 1112018 T	2023-24 - 879016T(up to Oct 2023) 2022-23 - 466400T 2021-22 - 323863T 2020-21 - 4000T 2019-20- 85200T	Due to road issues for transportation of ore from mine to plant, the production is not carried out as per the proposal.
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.	
Solid Waste Management - Dumping :				
Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	Proposed OB dump in the year 2022-23.	None.	No OB was removed in the year 2022-23.
4b	Location of topsoil, OB and mineral reject dumps	Proposed OB dump b/w the co-ordinates: N1863790 to N1863870 and E 401120 to E401220	None in the year 2022-23 & 2023-24 up to 31.10.2023.	Three old Mineral reject dumps are existing within the lease area and locations are as follows. Dump 1:- N1864370 to N1864530 and E 401010 to E 401100, Dump 2:- N 1864550 to N 1864580 and E 400235 to 400260, Dump 3:- N 1864590 to N1864620 and E 400370 to E400400.
4c	Number of dumps within lease area and outside of	One OB dump in the year 2022-23.	None in the year 2022-23.	Three old Mineral reject dumps were observed within

	lease area			the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump within the UPL	None in the year 2022-23.	Two old mineral reject dumps are existing within the UPL. Both are temporary dumps lessee will re-handle or utilize as per the requirement.
4e	Number of active and alive dumps.	One	None in the year 2022-23.	Three old Mineral reject dumps were observed within the lease area.
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 in the year 2022-23.	Garland drains were provided all along the toe of Mineral reject dumps.	
4i	Length of retaining wall or garland drain all along dumps.	None in the year 2022-23.	380 mtrs garland drains provided all along the toe of Mineral reject dump.	

4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officers on waste dump management .		There was a proposal of waste dump in the year 2022-23, however, no waste was handled in the year 2022-23 and no waste dump was made. Further, three old mineral reject dumps are existing within the lease area, garland drain is provided all along the toe of Mineral reject dump. The height of Dump-1 is 8 to 9 mtrs and other two dumps are having height 2.00 to 2.5mtr only.	
Solid Waste Management - Backfilling :				
Sl.No.	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 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)	No new area in the year 2022-23.	Plantation was made in the 3.5Ha area which is	Plantation was made only for gap

			already covered under plantation.	filling in the existing plantation (Densification) and no new land covered under plantation.
6d	No. of saplings planted during the year	500 in the year 2022-23 (As per approved MMP dated 07-07-2021)	3130 in the year 2022-23	Plantation is made more than the proposal.
6e	Cumulative no. of plants	2900 in five year block period of 2019-20 to 2023-24.	7417 saplings up to 31.03.2023, in the five years block period of 2019-20 to 2023-24	10417 sapling covering an area of 3.5Ha up to 31.03.2023.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	None.	Rs 350000	Cost for plantation and watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation	Nil	Nil	

	and rehabilitation by backfilling (ii) Voids filled by waste / tailings			
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 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 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 result are within permissible limits.	Enviro Associates, Chengicherla, Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive		Against the proposal of 500 lessee has planted 3130 saplings in the year 2022-23. Further, 380m garland drain is made around the mineral reject dump.	

	closure operations etc.		Plantation was made more than the proposal. Environmental monitoring is carried out as per the proposal and results are within the permissible limits.	
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Mineral Conservation:-

Sl.N o.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise 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 gradewise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Captive Cement plant without any processing.
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	Erection of crusher of 900tph capacity is under progress within the lease area.
7e	General remarks of inspecting officers on		Lessee is not doing any mineral processing at the mine site at	Erection of crusher of 900tph capacity is under progress

	mineral conservation and beneficiation issues.		present and Dispatching ROM (Cement grade) to Captive Cement plant linked with the mine.	within the lease area.
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Environment:-

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None in the year 2022-23.	None in the year 2022-23.	Topsoil removed earlier was utilized for plantation within the lease area.
8b	Concurrent use or storage of topsoil	None.	None	Topsoil removed earlier was utilized for plantation within the lease area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposed separate dump for OB	None.	No OB/waste rock and Mineral reject was generated in the year 2022-23. However, three old mineral reject dumps are existing within the lease area.
8d	Use of overburden, waste rock, rejects and fines	None.	None.	

	dumps for restoring the land to its original use			
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 10417 sapling so far within the lease area.	
8g	Survival rate	None	90 to 95%	Lessee is well maintaining plantation by regular monitoring by engaging manpower.
8h	Water sprinkling on roads to control airborne	Yes, proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 10,000 ltr capacity is in use for dust suppression.

	dust			
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Benches were made systematically. Garland drains were provided all along the toe of Mineral reject dump. Plantation was made in the 7.5mtr safety zone.	

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 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 28-06-2023.
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.Balaji Koteswara Kumar.	The details of Mining Engineer and Geologist Furnished in the AR submitted for the year 2022-23 is found correct.	Lessee has sent notice of appointments to this office.

		Geologist:- Mr.N. Sivanagaraju. Mines Manager:-Mr.Balaji Koteswara Kumar.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current workings:- 3.60Ha, waste disposal:- 1.00Ha, Infrastructure:- 22.10Ha.	The details of land use pattern furnished in the AR for year ending up to 31.03.2023 is found correct.	However, the land use details as on 31.10.2023 is as follows, Area under Mining- 8.75Ha., Dumps:- 1.60Ha, Infrastructure:- 22.10Ha
9d	Scrutiny of Annual return on afforestation	3130 saplings with survival rate of 96%	The details furnished in the AR submitted for the year 2022-23 is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	During inspection it was observed that three dumps mixed with ore were observed and lessee was not shown the same as mineral reject in the AR submitted for the year 2022-23, so lessee was advised to do proper sampling and analysis of the dumps existing within the lease

				area and updated quantity as per the chemical analysis report in the Annual returns. However, said quantity is shown as the ROM Closing stock.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock:-85263 tonnes, production-466400 tonnes. Gradewise details:- Cement Grade:- Opening and closing stock Nil, Production and dispatch:-466400 tonnes.	The information furnished in the AR submitted for the year 2022-23 is correct.	Entire ROM produced in the year 2022-23, is dispatched under Cement grade to captive cement plant.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Ex-mine price and cost of production:-Rs 239.03/ton and sale value is nil.	The information furnished in the AR submitted for the year 2022-23 is correct.	The ROM produced is dispatched to captive cement plant under cement grade for captive consumption so, sale value is shown as zero.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed asset is shown as Rs-97645383	The information furnished in the AR submitted for the year 2022-23 is correct.	Entire lease area is forest land; however, lessee has shown Rs

				67.23Lakh as land value, shown value of the C & D lands handed over to forest department against the forest land. Hence lessee has advise to shown land value pertains to lease area only.
9k	Scrutiny of Annual return on mining machineries	Back hoe - 2.3CUM-02nos, Back hoe-1.1CUM-01no. Tippers of 19cum-09 no. drill machine-01, dozer-01.	The information furnished in the AR submitted for the year 2022-23 is correct.	

Date:-

(KALMATA.M.K)

Indian Bureau of Mines