

MCDR INSPECTION REPORT

File No.

Mine Code: 38APR10014

1	Name of the Inspecting Officer	Shaival Kartikeya
2	Designation	Senior Mining Geologist
3	Accompanying mine Official with Designation	Shri P. Jani Reddy, Agent (Mines)
4	Date of inspection	06-November-2024
5	Previous inspection date	27-FEBRUARY-2024

Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Jayanthipuram Limestone Mine (South Band)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest: 88.35 Ha. Forest: Nil. Total Extent of lease area: 88.35 Ha.
3	Mine code	38APR10014
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	M/s The Ramco Cements Limited, Auras Corporate Center, V Floor, 98-A, Dr. Radhakrishnan Road, Mylapore, Chennai (Tamil Nadu) – 600004 Phone No. +91 (0) 44 – 2847 8666 Fax No. +91 (0) 44 – 2847 8676 Email: cvc@ril.nic.in
6	Village	Jayanthipuram
7	Taluk/Mandal	Jaggayyapeta
8	District	NTR
9	Pincode	521457
10	State	Andhra Pradesh
11	Post office	Kumarasamyraja Nagar
12	Nearest police station	Chillakallu
13	Nearest Railway station	Bonakallu
14	Date of Grant of Mining Lease	10/07/1984
15	Date of Execution	19/12/1984 to 18/12/2004 (20 Years)
16	Date of opening of Mine	27/03/1989
17	Date of first Renewal, if applicable and its period & expiry	19/12/2004 to 18/12/2024 (20 Years) Executed on 21/04/2005
18	Date of second Renewal, if applicable and its period & expiry	As per Section 8A of MMDR Act, 2015, supplementary lease deed has been made for the extended period. 19/12/2024 to 18/12/2034 (10 Years) Executed on 01/12/2022
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri P. R. Venkatrama Raja, Chairman and Managing Director, M/s The Ramco Cements Limited, Auras Corporate Center, V Floor, 98-A, Dr. Radhakrishnan Road, Mylapore, Chennai (Tamil Nadu) – 600004

		Phone No. +91 (0) 44 – 2847 8666 Fax No. +91 (0) 44 – 2847 8676 Email: cvc@ril.nic.in Date of appointment: 06/02/2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri P. Jani Reddy, Sr, DGM (Mines), M/s The Ramco Cements Limited, Kumarasamy Raja Nagar, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh – 521457 Phone No.: +91 (0) 8654 - 224400-04 Fax No.: +91 (0) 8654 - 222352 E-mail: mcljpm@ramcocements.co.in Date of appointment: 01/08/2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri P. Vidya Kiran, M/s The Ramco Cements Limited, Kumarasamy Raja Nagar, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh – 521457 Phone No.: +91 (0) 8654 - 224400-04 Fax No.: +91 (0) 8654 - 222352 E-mail: mcljpm@ramcocements.co.in Date of appointment: 19/07/2019
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Thota Manikanta, M/s The Ramco Cements Limited, Kumarasamy Raja Nagar, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh – 521457 Phone No.: +91 (0) 8654 - 224400-04 Fax No.: +91 (0) 8654 - 222352 E-mail: mcljpm@ramcocements.co.in Qualification: B. Tech. (Mining) Experience: +10 Years Date of appointment: 01/08/2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri P. Sriramulu, M/s The Ramco Cements Limited, Kumarasamy Raja Nagar, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh – 521457 Phone No.: +91 (0) 8654 - 224400-04 Fax No.: +91 (0) 8654 - 222352 E-mail: mcljpm@ramcocements.co.in Qualification: M.Sc. (Geology) Experience: +7 Years Date of appointment: 14/09/2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. AP/KSN//MP/LST-6-Hyd. dated 24/10/1990 Proposal Period: F.Y. 1991-92 to 1995-96
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. RMP/LC/58885201/AP/VJA dated 06/01/2025 Proposal Period: F.Y. 2025-26 to 2029-30
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast

29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/ Non captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

1.0 Exploration

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	No proposal.	Nil.	The entire mining lease area has already been explored under G1 level of exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal.	Nil.	-do-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal.	Nil.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil.	-
1e	Balance reserves as on 01.09.2024	Under (111): 48.768690 Million Tonnes Under (211): 56.227955 Million Tonnes	Under (111): 48.768690 Million Tonnes Under (211): 56.227955 Million Tonnes	Updated reserves and resources has been obtained from the latest approved Review of Mining Plan dated 06/01/2025. Average grade of limestone CaO: 45.47%, SiO2: 14.63%, MgO: 0.80%
1f	General remarks of inspecting officer on geology, exploration etc.	Jayanthipuram area lies in the northeastern margin of the Palnad Sub basin of the Kurnool sedimentary basin overlying the Cuddapah Super group of rocks. The Cuddapah group of rocks are in turn deposited		

		<p>over the Archaean basement. This area was first studied by Bruce Foote as well as by W. King in the subsequent period who gave a detailed account of the stratigraphic sequence. Later, the Geological Survey of India had carried out further detailed investigation in this area during 1972-74 and confirmed the stratigraphy which was established earlier with minor changes. Jayanthipuram Limestone Mine (South Band) Mining Lease area lies in the north-eastern margin of the Palnad Sub-basin of the Kurnool sedimentary basin overlying the Cuddapah Super group of rocks. The Cuddapah group of rocks are in turn deposited over the Archaean basement. Limestone occurring in this area is in shades of grey, buff or white, fine grained, hard and compact with shale partings. The limestone shows typical bedded nature with varying thickness. The quality of limestone deteriorates at places due to the predominance of interstitial clay. The action of ground water on these Limestone has resulted in the formation of large solution cavities at different places.</p>
--	--	--

2.0 Development

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area	In between UTM Co-ordinates N1864270 to N1863444 and E405466 to E404794	In between UTM Co-ordinates N1864200 to N1863450 and E404800 to E405400	Deviation has been pointed out. For compliance of the deviation Modified Mining Plan has been approved on 11/06/2024
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: Nil. Overburden: 01 nos. Mineral/Ore: 03 nos.	Topsoil: Nil. Overburden: 01 nos. Mineral/Ore: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.022	1 : 0.062	-
2d	Quantity of topsoil generation in m ³	No proposal.	Nil.	-
2e	Quantity of overburden generation in m ³	38942.00 CuM	9874.00 CuM	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development and production is being done through fully mechanized means.		

3.0 Exploitation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	1750700.00 Metric Tonnes	159220.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	48150.00 Tonnes	Nil.	No mineral reject has been generated during F.Y. 2023-24.
3e	Grade of mineral reject generation and threshold value declared	SiO ₂ : 13 % to 18% CaO: 33%	Nil.	-
3f	Quantity of sub-grade mineral generation	No proposal.	Nil.	-
3g	Grade of sub-grade mineral generation	No proposal.	Nil.	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal.	Nil.	The entire produced limestone is being dispatched to the captive cement plant.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal.	Nil.	-
3j	Provision of drilling & blasting in mineral benches	Dia.: 115 mm Spacing: 4.0 m Burden: 3.0 m Depth: 8.50 m Explosive: Non Permitted Slurry Explosives (Large Diameter).	Dia.: 115 mm Spacing: 4.0 m Burden: 3.0 m Depth: 8.50 m Explosive: Non Permitted Slurry Explosives (Large Diameter).	-
3k	Provision of mining machineries in mineral benches	1. Tippers 5 nos. with 30 Tonne carrying capacity. 2. Water Tanker 01 no. with 10 CuM carrying capacity. 3. Hydraulic Shovels 02 nos. with 2.30 CuM	1. Backhoe 02 nos. with 2.10 CuM bucket capacity. 2. Dozer 01 no. with 180.0 HP capacity 3. Tippers 5 nos. with 16.0 CuM	-

		bucket capacity. 4. Drilling Machine 01 nos. with 115 mm diameter bit size.	carrying capacity. 4. Air compressor 01 no. 16.10 CuM/Mn capacity 5. Blast host drill 01 no. With 115.0 mm bit diameter 6. Water Tanker 01 no. with 10000 Liters capacity. 7. Electric Pumps 01 no. with 188 Liter/Mn capacity.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height: Mineral: Avg. 9.0 m Overburden: 9.0 m Bench Width: Mineral: Avg. 10.0 m Overburden: 10.0 m	Bench Height: Mineral: Avg. 9.0 m Overburden: 9.0 m Bench Width: Mineral: Avg. 10.0 m Overburden: 10.0 m	-
3m	Total area covered under excavation/pits	Pit- 37.03 Ha. Up to end of F.Y. 2023-24	Pit- 32.61 Ha. Up to end of F.Y. 2023-24	-
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.671	1 : 0.076	-
3o	Total area put in use under different heads at the end of year	Pit- 37.03 Ha. Waste/reject- 24.04 Ha. Others- 21.80 Ha. Up to end of F.Y. 2023-24	Pit- 102.00 Ha. Waste/reject- 21.14 Ha. Others- 24.78 Ha. Up to end of F.Y. 2023-24	-
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 2456110.000 Metric Tonnes Yr. 2020-21: 1752704.500 Metric Tonnes Yr. 2021-22: 1751720.000 Metric Tonnes Yr. 2022-23: 1750837.000 Metric Tonnes Yr. 2023-24: 1750700.000	Yr. 2019-20: 499500.000 Metric Tonnes Yr. 2020-21: 499000.000 Metric Tonnes Yr. 2021-22: 812000.000 Metric Tonnes Yr. 2022-23: 770650.000 Metric Tonnes Yr. 2023-24: 159220.000	-

		Metric Tonnes	Metric Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting.		

4.0 Solid Waste Management-Dumping

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposal has been given in the approved document for separate stacking of the mineral reject and the OB/waste dump in between UTM Co-ordinates Mineral Reject: N1864510 to N1864580 and E405425 to E405310 OB/Waste Dump: N1864620 to N1864750 and E405250 to E405470	Separate dumping of the OB/Waste has been done in between UTM co-ordinates N1865146 to N1865630 and E405228 to E405721	No mineral reject has been generated during F.Y. 2023-24.
4b	Location of topsoil, OB & mineral reject dumps	In between UTM Co-ordinates Mineral Reject: N1864510 to N1864580 and E405425 to E405310 OB/Waste Dump: N1864620 to N1864750 and E405250 to E405470	In between UTM co-ordinates N1865146 to N1865630 and E405228 to E405721	-
4c	Number of dumps within lease area and outside lease area	No proposal.	Two old dumps are present within mining lease area.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule	No proposal.	Situated beyond ultimate pit	-

	16)		limit.	
4e	Number of active & alive dumps	Active: 01 no. Inactive: 01 no.	Active: 01 no. Inactive: 01 no.	-
4f	Number of dead dumps	01 no.	01 no.	-
4g	Number of dumps stabilized	No proposal.	The inactive dump has already been stabilized through the plantation.	-
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal.	Nil.	
4i	Length of Retaining wall or garland drain all along dump	No proposal.	Nil.	-
4j	Number of settling ponds	No proposal.	Nil.	-
4k	Specific comments of inspecting officer on waste dump management.	Nil.		

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal.	Nil.	-
5b	Area under backfilling of mined out area	No proposal.	Nil.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal.	Nil.	-
5d	Total area fully reclaimed & rehabilitated	No proposal.	Nil.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Annual report on PMCP for F.Y. 2023-24 has been submitted before due date.	The given information has been cross verified during

				inspection.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal.	Nil.	-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal.	Nil.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1000 nos. 0.50 Ha. By plantation	1000 nos. 0.50 Ha. By plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil.		

7.0 Mineral Conservation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within	ROM/Ore will be dispatched directly	Being done as per proposal.	-

	lease area	to the crusher plant without sorting.		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal for grade wise sorting.	ROM/Ore is being dispatched to the captive plant without sorting.	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	No Proposal.	NIL.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil.		

8.0 Environment

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	-
8b	Concurrent use or storage of topsoil	No proposal.	Nil.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for separate stacking of mineral reject and OB/Waste in between UTM co-ordinates Mineral Reject: N1864510 to N1864580 and E405425 to E405310 OB/Waste Dump: N1864620 to N1864750 and E405250 to E405470	Separate dumping of OB/waste (has been done in between UTM co-ordinates N1865146 to N1865630 and E405228 to E405721	No mineral reject has been generated during F.Y. 2023-24.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining	No proposal.	Nil.	-

	operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 nos. of saplings will be planted over 0.50 Ha. area.	1000 nos. of saplings has been planted over 0.50 Ha. area.	-
8g	Survival rate	85%	Approx 98%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2024 A.R. Submitted up to F.Y. 2023-24	Nil.

S.N.	Item	Details GIVEN in A.R. F.Y. 2023-24	Observation of I/Officer F.Y. 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri P. Vidya Kiran. Mining Engineer: Shri T. Manikanta. Geologist: Shri P. Sriramulu.	Manager: Shri P. Vidya Kiran. Mining Engineer: Shri T. Manikanta. Geologist: Shri P. Sriramulu.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 102.00 Ha. Waste/reject- 21.14 Ha. Others- 24.78 Ha.	Pit- 102.00 Ha. Waste/reject- 21.14 Ha. Others- 24.78 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within ML: 1000 nos. with 9% survival rate. Outside ML: Nil	Within ML: 1000 nos. with 9% survival rate. Outside ML: Nil	Nil.
9e	Scrutiny of Annual return on mineral reject	Mineral Reject: Nil.	Mineral Reject: Nil.	Nil.

	generation (Grade & quantity)	Grade: Nil.	Grade: Nil.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: 20650.000 Tonnes Cement Grade Limestone: Nil.	Closing Stock ROM: 20650.000 Tonnes Cement Grade Limestone: Nil.	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 34865995.60 Ex-mine Price: Rs. 218.98 Per Metric Tonne Cost of Production: Rs. 218.98 Per Metric Tonne	Sale value: Rs. 34865995.60 Ex-mine Price: Rs. 218.98 Per Metric Tonne Cost of Production: Rs. 218.98 Per Metric Tonne	Nil.
9i	Scrutiny of Annual return on fixed assets	Rs. 39402177/-	Rs. 39402177/-	Nil.
9k	Scrutiny of Annual return on mining machineries	1. Backhoe 02 nos. with 2.10 CuM bucket capacity. 2. Dozer 01 no. with 180.0 HP capacity 3. Tippers 5 nos. with 16.0 CuM carrying capacity. 4. Air compressor 01 no. 16.10 CuM/Mn capacity 5. Blast host drill 01 no. With 115.0 mm bit diameter 6. Water Tanker 01 no. with 10000 Liters capacity. 7. Electric Pumps 01 no. with 188 Liter/Mn capacity.	1. Backhoe 02 nos. with 2.10 CuM bucket capacity. 2. Dozer 01 no. with 180.0 HP capacity 3. Tippers 5 nos. with 16.0 CuM carrying capacity. 4. Air compressor 01 no. 16.10 CuM/Mn capacity 5. Blast host drill 01 no. With 115.0 mm bit diameter 6. Water Tanker 01 no. with 10000 Liters capacity. 7. Electric Pumps 01 no. with 188 Liter/Mn capacity.	Machinery log books has been cross verified during inspection.

Details of violations observed during current inspection and compliance position of earlier violation pointed out:

No major deviation has been pointed out.

(Name of inspecting officer with designation and date)

Shaival Kartikeya
Senior Mining Geologist
Date of Inspection 06/11/2024