

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Sri. Darshan Deep Bhardwaj Deputy Controller of Mines & Incharge of Regional Office- Vijayawada
2	Accompanying Mine Official with Designation	P. Jani Reddy Agent-Mines
3	Date of inspection	10.12.2024
4	Name of the Mine	Ravirala Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	60.72Ha. Forest Land
6	Mine Code	638/38APR10026
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
8	Name of the lessee, Address, phone, email and fax number	The Ramco Cements Limited Kumarasamy Raja Nagar - 521 457, Jaggayyapet Mandal, NTR, District, Andhra Pradesh
9	Village	Ravirala
10	Taluka / Mandal / District	Jaggayyapet , NTR
11	State	Andhra Pradesh
12	Post office & PIN	KSR Nagar & 521457
13	Nearest police station	Chillakallu
14	Nearest Railway station	Bonakallu
15	Date of Grant of Mining Lease	20.04.2001
16	Date of Execution	27.06.2001
17	Date of opening of Mine	25.06.2003
18	Date of first Renewal, if applicable and its period & expiry	27.06.2001 & Valid upto 26.06.2031. As per Sec. 8(A)(3) of MMDR Amendment, 2015 Act lease period extended upto 50 years & valid upto 26.06.2051.
19	Date of second Renewal, if applicable and its period & expiry	N/A
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N/A
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. P.R. Venketrama Raja 98A, Auras Corporate center, Dr. Radhakrishnan Road, Mylapore, Chennai- 600 004 Fax:044-28478676

		Ph:044-28478666 Date of appointment: 10.04.2009
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. P.Jani Reddy KSR Nagar, Jaggayyapet, NTR Dist, A.P. Fax:08654 222532 Ph:08654 224400-09 e-mail: pjr@ramcocements.co.in Date of appointment: 01.08.2017
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri M.Murali Krishna, KSR Nagar, Jaggayyapet, NTR Dist, A.P. Fax:08654 222532 Ph:08654 224400-09 e-mail: muralikrishna@ramcocements.co.in Date of Appointment: 16.12.2021
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	K. Vinayaka Rao M.N KSR Nagar, Jaggayyapet, NTR Dist, A.P. Fax:08654 222532 Ph:08654 224400-09 e-mail: minesjpm@ramcocements.co.in Date of Appointment: 14.08.2024 Experience: 11 Years
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Sri. K.Anil Kumar KSR Nagar, Jaggayyapet, NTR Dist, A.P. Fax:08654 222532 Ph:08654 224400-09 Qualification: MSc. Geology e-mail: anilkumark@ramcocements.co.in Date of Appointment: 19.02.2024 Experience: 07 Years
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan AP/KSN/MP/Lst-2/Hyd dated 12.01.2023 Modification in the approved Mining Plan AP/KSN/MP/Lst-2Hyd dated 27.09.2023 5yrs Block period: 2023-24 to 2027-28
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	N/A
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	2.75 Million Tonnes Validity: 26.06.2051
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	--

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2024 (in Million Tonnes)	Under (111):20.46 Million Tonnes Under (211):31.83 Million Tonnes	Under (111): 21.03 Million Tonnes Under (211): 31.83 Million Tonnes	Less production due to EC not obtained for the enhanced quantity.
1f	General remarks of inspecting officer on geology, exploration etc.	Entire area has been explored.		

2.0 Development

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	Waste Dump Proposal: E408076-408699 and N1861906-1861723 and 62 RL to 37 RL.	Waste Dump: E 408076-E408641 N 1861858-N 1861736 and 62 RL to 37RL	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate Bench for OB and Mineral	Maintained	3 no's of Over Burden Benches and 7 no's of ore benches
2c	Stripping ratio or ore to OB ratio	1:0.46	1:0.27	
2d	Quantity of topsoil generation in m3	--	--	
2e	Quantity of overburden generation in m3	581728.52 Cu.m	299840.9 Cu.m	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pits are being developed as per the proposal given in the mining plan.		

3.0 Exploitation

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	3300000 MT	2734000MT	
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	Captive Consumption
3d	Quantity of mineral reject generation	180000.40	--	
3e	Grade of mineral reject generation and threshold value declared	---	--	
3f	Quantity of sub-grade mineral generation	--	--	
3g	Grade of sub-grade mineral generation	--	--	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	Not carrying out	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Conventional deep hole drilling and blasting	Conventional deep hole drilling and blasting	115 mm dia crawler mounted drilling machine, Spacing=4 m. Burden=3 m. Depth=8 m.
3k	Provision of mining machineries in mineral benches	Backhoe Excavators - 2.3 Cu.m: 2No's 2.5 Cu.m: 1No's Blast Hole Drill - 115mm dia Tipper - 16Cum: 18 No's Dozer - 180 HP Air Compressor - 16.10 Cum/Min Water Tanker - 10KL	Backhoe Excavators - 2.3 Cu.m: 2No's 2.8 Cu.m: 1No's Blast Hole Drill - 115mm dia Tipper - 16Cum: 18 No's Dozer - 180 HP Air Compressor - 16.10 Cum/Min Water Tanker - 10KL	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	

3m	Total area covered under excavation/pits	32.61 Ha	30.59 Ha.	Covered under current (O/C) Workings
3n	Ore to OB ratio for the pit/mine during the year	1:0.46	1:0.27	
3o	Total area put in use under different heads at the end of year	Mining: 32.61 Ha. Infrastructure & Roads: 4.18 Ha. Dumps: 14.82 Ha. Reclamation: 1.15 Ha.	Mining: 30.59 Ha. Infrastructure & Roads: 4.03 Ha. Dumps: 14.50 Ha. Reclamation: Nil	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)			Less production due to EC not obtained for the enhanced quantity.
	2020-21	2003448 MT	7,92,000 MT	
	2021-22	2751367.5 MT	1199500 MT	
	2022-23	2751670 MT	2174000 MT	
	2023-24	3300000 MT	2734000 MT	
	2024-25 (Upto:30.11.2024)	3300000 MT	1400199 MT	
3q	General remarks of inspecting officer on method of mining etc.	Mining is done as per the proposal of mining plan with conventional deep hole drilling and blasting method.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	There is no Top Soil. OB and Mineral Reject are to be stocked Separately	There is no Top Soil. OB stocked Separately in temporary dump. Mineral Reject is not generated.	

4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Waste Dump Proposal: E408909-409301 and N1861897-1861764 65 RL to 80 RL. Back Filling Proposal : E408109 to E408259 and N1862021 to N1861858	Waste Dump: E 408922-E409290 and N1861906-N1861761 65 RL to 79 RL	Backfilling not yet started due to Mineral is not exhausted in the bottom benches.
4c	Number of dumps within lease area and outside lease area	2 No's within lease area	2 No's within lease area	No dumps are there in outside ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	South East Side of Mining Lease	South East Side of Mining Lease	
4e	Number of active & alive dumps	OB Temporary Dump-1: E408909-409301 and N1861897-1861764	OB Temporary Dump-1: E 408922-E409290 N 1861906-N 1861761	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilised	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes (Garland Drain)	
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall: 100 m Garland Drain : 100 m	Retaining Wall: 100 m Garland Drain : 100 m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	OB stocked Separately in temporary dump within the mining lease area.		

5.0 Solid Waste Management-Backfilling

SN	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	Back filling is proposed after full extraction of mineral is done	The backfilling is not commenced due to the mineral is not exhausted in the bottom benches.	
5b	Area under backfilling of mined out area	1.15 Ha.	--	The backfilling is not commenced due to the mineral is not exhausted in the bottom benches.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	--	--	
5d	Total area fully reclaimed & rehabilitated	--	--	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling is not commenced due to the mineral is not exhausted in the bottom benches.		

6.0 Progressive Mine Closure Plan

SN	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 23. Details should be given in the format as given in Annexure-20.	Submitted in time	PMCP submitted on 26.06.2024.	
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	1.15 Ha. Densification 1000 --- --- Rs.178000/-	-- Densification 2500 21692 Nos -- Rs.869639/-	All along the boundary Including Labour, Water, Sapling and Maintenance
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings	1.15 Ha --	-- --	

	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	-- -- --	-- -- --	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	--	--	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Season wise Monitoring is to be done	Quarterly monitoring is being done & reports are being submitted	Work Order to: Universal Enviro Associates, HYD
6f	General remarks of inspecting officer on PMCP compliance & progressive	The PMCP work is being carried out as per the proposal contained in the approved mining plan.		

7.0 Mineral Conservation

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	3300000 MT	2734000 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is used for the captive plan and no mineral beneficiation is required.		

8.0 Environment

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NA	There is no top soil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Maintained	Maintained	Maintaining the separate Temporary dump for disposal of OB.
8d	Use of overburden, waste rock, rejects and fines dumps	Nil	Nil	

	for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	1.15	Nil	The backfilling is not commenced due to the mineral is not exhausted in the bottom benches
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Nil	Nil	
8g	Survival rate	--	--	
8h	Water sprinkling on roads to control airborne dust	One mobile water sprinkler with spraying arrangement will be used for dust suppression on haul roads	One mobile water sprinkler is arranged for dust suppression on haul roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mine is maintained.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return Submitted upto - November-24 Annual return submitted upto- FY -2023-24	

S.N.	Item	Details GIVEN in A.R. 2023-24	Observation of Inspecting Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: B.Jagadesh Geologist: K. Anil Kumar Mines Manager: M.Murali Krishna	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	a) Covered under Mining-30.59 Ha. b) Reclamation & rehabilitated-0.00 Ha c) Used for waste disposal-14.50 Ha d) Occupied by plant, buildings, residential, welfare	Found in order	

		buildings and roads- 4.03 Ha e) Used for any other purpose (Green belt) -10.49 Ha		
9d	Scrutiny of Annual return on Afforestation	2500 Nos	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	--	N/A	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	--	N/A	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value is 0; Ex Mine Price: Rs.189.70	Found in order	
9i	Scrutiny of Annual return on fixed assets	Rs. 17575806	Same	
9k	Scrutiny of Annual return on mining machineries	Excavator – 3, Dozer-1, Tippers – 18, Water Tanker – 1, Drill &Compressor- 1	Found in order	

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

During the inspection violation of Rule 31(4) and lessee has been advised to the send the compliance of the same within the stipulated time period of 45 Days from the date of issue of the violation letter.

Darshan Deep Bhardwaj
Deputy Controller of Mines &
Incharge
Regional Office- Vijayawada
Indian Bureau of Mines