

MCDR INSPECTION REPORT- 2023-24**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Hemadri Limestone Mine.
2	Total Lease Area (Ha) with breakup of non-forest and forest land	38.68 Ha Govt Waste Land
3	Mine Code	38 APR10001
4	IBM Registration Number under rule 45 of MCDR, 1988	6878
5	Name of the lessee, Address, phone, email and fax number	M/s. Hemadri Cements Ltd, Vedadri(V), Jaggayyapet (M), NTR -Dist, AP 08678-284538 hclmines@gmail.com
6	Village	Vedadri
7	Taluka/Mandal	Jaggayyapet
8	District	NTR
9	PIN code	521457
10	State	Andhra Pradesh
11	Post Office	Vedadri
12	Nearest police station	Chillakallu
13	Nearest Railway station	Bonakallu
14	Date of Grant of Mining Lease	Primary Grant: 13-05-1981
15	Date of Execution	Primary Grant Execution: 10-11-1981
16	Date of opening of Mine	01.04.1985
17	Date of first Renewal, if applicable and its period & expiry	23-07-2008 and valid up to 09.11.2031
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Deemed Extension Proposal is under process with AP Govt Under Section 8(A) of MMRD Act, 2015. (Lease Valid up to 09.11.2031 as per the deemed extension.)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri G. Ohm Prakash Hemadri Cements Limited, Vedadri (V), Jaggayyapet (M), NTR -Dist. 08678-284538 ceo@hemadricements.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	J. Srinivasa Rao Hemadri Cements Limited, Vedadri (V), Jaggayyapet (M), NTR -Dist. 9052117676 planthead@hemadricements.com
22	Name of the Mines Manager	G.Maheswara Rao

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	with Address, phone, email, fax number and date of appointment in mines	Hemadri Cements Limited, Vedadri (V), Jaggayyapet (M), NTR -Dist. 9052117848 hclmines@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	L.Rakesh B- tech in Mining Engineering, Hemadri Cements Limited, Vedadri (V), Jaggayyapet (M), NTR -Dist. 9052117830 hclmines@gmail.com 27/06/2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42& carrying out their duties as per rule 43&44.	CH. Prasad, M.Sc (Tech) Applied Geology. Hemadri Cements Limited, Vedadri (V), Jaggayyapet (M), NTR - Dist. 9642330319 hclmines@gmail.com 27/01/2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Nil
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter No: AP/KSN/MP/Lst-32/HYD Dated :28/11/2022
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
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

SN	Item	Proposals FY 2023-24	Actual work FY 2023-24	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 38.68 Ha Under G2 category: nil Ha Under G3 category: nil Ha Under G4 Category: ---Ha	Under G1 Category: 38.68 Ha Under G2 category: nil Under G3 category: nil Under G4 Category: nil Non- Mineralised:	Entire Lease area has been converted into G1 Category

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		Non- Mineralised: -----Ha	nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserves as on 31.3.2024 (in Metric Tonnes)	As per the approved document dated: 28/11/2022, Status of Reserves/Resources as on 01/09/2022. 1)Proved Mineral Reserve (111): 4239350 Tonnes 2)Feasibility Mineral Resource (211): 3520123 Total: 7759473 Tonnes	Balance Reserves as on 01/04/2024 1)Proved Mineral Reserve (111): 4189350.00 Tonnes 2)Feasibility Mineral Resource (211): 3520123 Total: 7,709,473 Tonnes	Average Grade (Limestone): 34% to 48.60% CaO
1f	General remarks of inspecting officer on geology, exploration etc.	The most important litho-unit i.e. Limestone is correlated to narji member of the Jammalamadugu formation of the Kurnool Group (Palanad Beds). The limestone is fine grained, massive, thickly bedded, and white to grey and occur pink in color with veinlets of quartz and calcite. Limestone is exposed over a linear, continuous stretch of about 1100 m length, trending in a general NNE SSW direction and the width varying from 80 to 240 m.		

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)	(a) N1857760.79 to N1857959.10 and E408423.30 to E408569.10 and (b) N1857975.8 to N1858267.4 and E408516.6 to E408709	(a) N1857894 to N1857979.90 and E408515.70 to E408539.50 and (b) N1857925.90 to N1857991.10 and E408557.20 to E408639.50	violation is pointed out under Rule 11(1) for deviation in workings
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Benches were proposed in mineral only	Benches were made in the mineral only	Height of Mineral Bench is within

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				proposed limits.
2c	Stripping ratio or ore to OB ratio	1:1.97	1:1.84	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	91277.0	25014.80	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No overburden is generated in the mining area. Mining is carried out in mechanized manner by using combination of loaders and tippers		

3.0 Exploitation

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral Production proposed	180000 Tonnes	37000 Tonnes	During the year 2023-24, production achieved was only 21%, resulting in a deviation of 79%. Consequently, a violation is being pointed out under Rule 11(1) due to the significant deviation in ROM production.
3c	Recovery of saleable/usable mineral from ROM production	99%	66 %	
3d	Quantity of mineral reject generation	NIL	NIL	No mineral reject was generated in the year 2023-24
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	-do-
3f	Quantity of sub-grade mineral generation	NIL	NIL	-do-
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

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3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Dia. Of Hole: 110 mm Spacing: 3.5 mtrs Burden: 3 mtrs Expl. Type: Slurry Aluminised Gelled Slurry Explosives (Large Diameter)	As per proposal	Drilling and blasting is being carried out as per the proposal
3k	Provision of mining machineries in mineral benches	YES	YES	Lessee is using the machineries as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7M	7M	Height of benches is well within max approved height.
3m	Total area covered under excavation/pits	12.27	11.77	
3n	Ore to OB ratio for the pit/mine during the year	1:0.79	1:0.64	
3o	Total area put in use under different heads at the end of year	17.39	17.39	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2019-20: 177543 Tonnes 2020-21: 173745 Tonnes 2021-22: 177088 Tonnes 2022-23: 173794 Tonnes 2023-24: 180000 Tonnes	2019-20: 109500 Tonnes 2020-21: 173000 Tonnes 2021-22: 79400 Tonnes 2022-23: 50900 Tonnes 2023-24: 37000 Tonnes	Over the last five years, the production has achieved only 51% of the target. Due to the limited capacity plant and have been supplementing required limestone from the Sri Venkateswara mine, operated by M/s Hemadri Cements Ltd. However, production from this mine has not been carried out as proposed, owing to

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				temporary discontinuance of mining operations
3q	General remarks of inspecting officer on method of mining etc.	The method of mining adopted is fully mechanized with combination of Excavator and dumpers. Lessee is doing drilling and blasting for Loosening of the strata. The bench Parameters were kept 9.00mts height and bench height is maintained within the proposed Limits.		

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 32, 33)	OB Proposed & Maintained	OB Proposed & Maintained	During the year 2023-24, the topsoil generated was fully utilized for plantation work within the lease area. Additionally, no mineral rejects were generated, resulting in no topsoil and mineral rejects dumps being formed
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	N-1858555-1858251, E-408232-408412	N-1858300-1858475, E-408300-408375	Location of dump is in accordance with the approved Mining plan
4c	Number of dumps within lease area and outside lease area	Within Lease area one dump	Within Lease area one dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active & alive dumps	One	One	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	No such proposals were given in the Approved document.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Garland drain is along the dump	garland along the dump was prepared and regularly maintained
4i	Length of Retaining wall or			

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	garland drain all along dump	No such proposals were given in the Approved document	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	One OB dump existing within the lease area and lessee has constructed retaining wall and garland drain all around the toe of the dump.		

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	N/A	N/A	
5b	Area under backfilling of mined out area	0.37 Ha	0.37 Ha	The proposed area has been successfully backfilled
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	No topsoil was removed in the present plan period.
5d	Total area fully reclaimed & rehabilitated (ha)	N/A	N/A	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Towards Northeast side of the pit an area of 0.37 Ha has been successfully backfilled.		

6.0 Progressive Mine Closure Plan

S	Item	Proposals F.Y.	Actual work	Remarks
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N		2023-24	F.Y. 2023-2024	
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23 E (2) Details should be given in the format as given in Annexure-20.	PMCP report to be submitted before 01st July.	For 2023 – 2024 PMCP report submitted on dated 27-06-2024	The PMCP report for the year 2023-24 was submitted within the stipulated timeframe
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	i) Nil ii) 0.10 Ha. iii) 100 iv) 5100 v) Nil vi) Nil	i) Nil ii) 0.30 Ha. iii) 300 iv) 2840 v) Nil vi) Nil	Plantation was made in the 7.5 mtr. safety zone. Total area covered by plantation so far is about 4.80 Ha
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	i) 0.37 Ha. ii) 12011.84 cu.m iii) Nil iv) 2 Ha. v) Nil	i) 0.37 Ha. ii) 12011.84 cu.m iii) Nil iv) 2 Ha. v) Nil	An area of 0.37 hectares has been backfilled as per the approved proposal, and an additional 2 hectares have been converted into a water reservoir
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed monitoring of Quality of air by periodic monitoring.	The lessee has carried out quarterly environmental monitoring.	The lessee has carried out quarterly environmental monitoring, and all parameters have been found to be within the

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				permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive	An area of 0.37 hectares has been backfilled as per the approved proposal, and an additional 2 hectares have been converted into a water. The lessee has carried out quarterly environmental monitoring, and all parameters have been found to be within the permissible limits		

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	ROM dispatch in the form of Lumps.	Directly feeding to the crusher at cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Cement grade	Cement grade	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

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)	Not Proposed	Not Generated	Topsoil is not generated as the workings are proposed in working benches.
8b	Concurrent use or storage of topsoil	Not Proposed	Not Generated	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, Maintained	Yes, Maintained	
8d	Use of overburden, waste		A total of	

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	rock, rejects and fines dumps for restoring the land to its original use	Yes, Proposed	12,011.84 cubic meters of overburden was utilized for backfilling purposes in Pit-I	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed to backfill an area of approximately 0.37 Ha. in Pit-I	An area of 0.37 hectares in Pit-I has been backfilled as per the approved proposal	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Given in the approved document	Yes. information was given in the approved mining plan. Additionally, lessee has planted 200 saplings, within the lease area	
8g	Survival rate	60%	60%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road with water tanker.	Water is being sprinkled on roads by water sprinkler	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	The benches and haulage roads were systematically maintained to ensure safe and efficient operations. To control dust, a water tanker was deployed to sprinkle water in the working area. Additionally, plantation activities were carried out within the 7.5-meter safety zone		

9.0 Compliance of Rule 45

SN	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to -November-2024 A.R. submitted for the F.Y:2023-24 on 27.06.2024		
SN	Item	Details GIVEN in A.R.	Observation of I/ Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager- G. Maheswara Rao Mining Engineer- L.Rakesh, Geologist- CH.prasad	The details of the Mining Engineer and Geologist submitted in the annual returns were verified and found to be correct	During the inspection, it was observed that the Mining Engineer had resigned, and no new Mining Engineer had

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				been recruited. Hence, violation was pointed out under Rule 55(1)(3)(i)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under current workings- 12.270 Ha Reclaimed- Rehabilitated- 0.370Ha Used for Waste Disposal- 4.670Ha Roads-0.350, Ha Plantation-0.100 Ha	The details given in the Annual returns as on 01.04.2024 are found correct.	
9d	Scrutiny of Annual return on Afforestation	300	The details given on the saplings planted were found correct and survival rate is around 80%.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	280	The details given in the annual return is found correct.	
9i	Scrutiny of Annual return on fixed assets	Rs.99050094.00	The details given in the annual return is found correct.	
9k	Scrutiny of Annual return on mining machineries	Back Hoe(0.9m ³)- 2Nos Air Compressor(169.0)m ³ /mn-1 Nos Tippers-5 Nos Blast Host Drill(110M M)-1 Nos Water Tanker(12000li te)-1 Nos Tractor(45 HP)-1 Nos Dozer(65 HP)-1 Nos	The details given in the AR are found correct	

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

Name and Designation of the Inspecting Officer: Shri. Varaprasada Rao Laveti

Date of Inspection: **16.12.2024**

Details of the Violations Pointed-out during Inspections: **11 (1), 34A (1) and 55 (1)(3)(I)**

Shri. Varaprasada Rao Laveti

Junior Mining Geologist