

MCDR INSPECTION DATA

**1.0 GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	Racherla Limestone Mine-ML-1
1(b)	Name of Inspecting Officer & Designation	Darshan Deep Bhardwaj, Deputy Controller of Mines and Incharge
1(c)	Accompanying Mines Representatives	K. Naga Thulasi Reddy- Mines Manager & Mining Engineer. N. Siva Prasad – Geologist.
1(d)	Type of Inspection	<b>Star Rating</b>
1(e)	Date of Inspection	18.12.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	510.25 (Ha) - Non-Forest Land.
3	Mine code	38APR11056
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/522/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Rain Cements limited, 34, Rain Centre, Srinagar Colony, Hyderabad-500073, Telangana. Phone: 040 4040 1234,
6	Village	Racherla
7	Taluka/Mandal	Peapully
8	District	Nandyal
9	Pin code	518220
10	State	Andhra Pradesh
11	Post office	Bioncheruvupalli
12	Nearest police station	N.Racherla
13	Nearest Railway station	Dhone
14	Date of Grant of Mining Lease	03.11.1995
15	Date of Execution	30.01.1997
16	Date of opening of Mine	15.01.1998
17	Date of first Renewal, if applicable and its period & expiry	Nil
18	Date of second Renewal, if applicable and its period & expiry	Nil
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. N. Sujith Kumar Reddy, Managing Director, 34, Rain Centre, Srinagar Colony, Hyderabad – 500 073 Ph: 040 4040 1278 <a href="mailto:vinutha@priyacement.com">vinutha@priyacement.com</a>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. C. Mallikarjuna Reddy, Sreepuram, Bioncheruvupalli, Peapully (M), Nandyal (Dist), Andhra Pradesh – 518220 Phone No. 08522 249970 <a href="mailto:mallikarjunareddy@priyacement.com">mallikarjunareddy@priyacement.com</a>

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri. K. Naga Thulasi Reddy Sreepuram, Boincheruvupalli, Peapuuly (M), Nandyal (Dist), Andhra Pradesh – 518220 Mobile No. 7815957461 nagathulasireddy@priyacement.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	K. Naga Thulasi Reddy , B.Tech, 35 years of experience. Sreepuram, Boincheruvupalli, Peapuuly (M), Nandyal (Dist), Andhra Pradesh – 518220 Mobile No. 7815957461 nagathulasireddy@priyacement.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	AP/KNL/MP/Lst-28-HYD, 16.07.1996,
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	AP/KNL/MP/LST-78, Dated-03.01.2023. 2023-2024 to 2027-28. Approved Modified Mining Plan for the period of 2024-25 to 2027-28 Letter No: LC/59446802/AP/VJA, Dated- 29.10.2024.
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)	‘A’
30	Captive/Non Captive	Captive

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

**Exploration**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	None	None	Total ML area : 510.25 Ha,  Mineralized area: 471.00 ha (under G1.)  Non- Mineralized Area :39.25 Ha (G3)
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Total Mineralized area is under G1 axis.
1e	Balance reserves as on 01.04.2024	335149172.83Tons.		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire mineralized area has been explored under G-1 axis		

**2.0 Development**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Exiting Pit E 815596.4434 to E 816560.9974 N1684347.1968 to N 1685004.6806 New pit E 816817.6494 to E 817081.3609 N1685529.6769 to N1685747.0715	Exiting Pit E 815861.0904 to E 816563.2165, N1684586.2653 to N1685001.0537	Working pit proposal Area. New pit is not Developed.

2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Separate Benches for topsoil and mineral	No Separate Benches for topsoil and mineral	Generated topsoil was utilized for plantation.
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.33	
2d	Quantity of topsoil generation in m3	3899	1368	
2e	Quantity of overburden generation in m3	Nil	Nil	
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 (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	2	1	New pit is not developed due to less demand from plant.
3b	Quantity of ROM mineral production proposed	2462437.25 Tons	1868196 tons	
3c	Recovery of salable/usable mineral from ROM production	2306664.50 Tons	1724791 Tons	
3d	Quantity of mineral reject generation	147746.24 Tons	143405 Tons	Due to high Silica % which is not suitable for Cement manufacture we considered as mineral reject and stocking separately.
3e	Grade of mineral reject generation and threshold value declared	Threshold value declared by IBM is CaO- >34%, MgO- < 5%.	Avg CaO % : 39% Avg SiO2% : 25%	Due to high Silica % which is not suitable for Cement manufacture we considered as mineral reject and stocking separately.
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	adopted Mechanized method.	
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	EPIROC make IBH-10, 150 mm drill hole dia.	Provided EPIROC make IBH-10, 150 mm drill hole dia.	
3k	Provision of mining machineries in mineral benches	2 no. of TATA Hitachi: Z-AXIS 470 LC: 2.50 M <sup>3</sup> .  6 no. of Z 440 XT SCANIA tippers.	Provided 2 no. of TATA Hitachi: Z-AXIS 470 LC: 2.50 M <sup>3</sup> .  6 no. of Z 440 XT SCANIA tippers.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 Mtrs Hight,  30Mtrs Width.	9 Mtrs Hight,  30Mtrs Width.	
3m	Total area covered under excavation/pits	57.65 Ha	56.45Ha.	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	
3o	Total area put in use under different heads at the end of year	Under mining =57.65 Ha  Mineral Storage = 14.72 Ha  Infrastructure (Magazine) = 0.25 Ha  Roads = 8.09 Ha  Topsoil stock = 0.05 Ha  Others(Green belt) – 8.65 Ha  <b>Total = 90.41Ha</b>	Under mining =56.45 Ha  Mineral Storage = 14.72 Ha  Infrastructure (Magazine) = 0.25 Ha  Roads = 8.09 Ha  Topsoil stock = 0.00 Ha  Others(Green belt) – 8.65 Ha  <b>Total = 88.16 ha.</b>	

3p	Production of ROM mineral during last five-year period, as applicable	2019-20 – 2104750 MT 2020-21 - 2397390 MT 2021-22 – 2232212 MT 2022-23 – 2258230 MT 2023-24 – 2462437 MT	2019-20 – 1582375 MT 2020-21 - 1581580 MT 2021-22 – 1499920 MT 2022-23 – 1809000 MT 2023-24 – 1868196 MT	Less Production due to less demand from Plant.
3q	General remarks of inspecting officer on method of mining etc.	Mining is done as per the proposal of mining plan with drilling and blasting method.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate Dumping is proposed for topsoil & mineral reject.	Maintained separate dump for mineral reject	Topsoil Generated and utilized.
4b	Location of topsoil, OB & mineral reject dumps	Topsoil Dump: E 816485.3137 – E 816518.6315, N 1684635.3753 - N1684672.2172.  Mineral Reject Dump: E 817190.6779 – E 817357.8716, N1685479.3700- N1685675.2144	<b>Topsoil:</b> Utilized.  Mineral Reject Dump: E817124.7509 - E817307.2055, N1685352.5649 - N1685612.8678	
4c	Number of dumps within lease area and outside lease area	Within Lease -3 No.  Outside lease – 2 No	Within Lease-3 No.  Outside lease -2 No	Mineral Reject Dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside the ultimate pit limit.	Inside the Ultimate pit limit.	Mineral Reject Dumps
4e	Number of active & alive dumps	1	1	Mineral Reject Dumps
4f	Number of dead dumps	1	1	Mineral Reject Dumps
4g	Number of dumps stabilized	1	1	Mineral Reject Dumps
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	Maintained Retaining wall and garland drain all along

				Mineral Reject Dumps
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	OB/Mineral Reject stocked Separately as per the proposal contained in the approved mining plan.		

### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N/A	N/A	Area not Matured for Back filling.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Under mining =57.65 Ha Mineral Storage = 14.72 Ha Infrastructure (Magazine) = 0.25 Ha Roads = 8.09 Ha Topsoil stock = 0.05 Ha Others (Green belt) – 8.65 Ha <b>Total = 90.41Ha</b>	Under mining =56.45 Ha Mineral Storage = 14.72 Ha Infrastructure (Magazine) = 0.25 Ha Roads = 8.09 Ha Topsoil stock = 0.00 Ha Others (Green belt) – 8.65 Ha <b>Total = 88.16 ha.</b>	
5d	Total area fully reclaimed & rehabilitated	N/A	N/A	Area not Matured for Back filling.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not Matured for Back filling as mineral in the bottom still exist.		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule	Before 1 <sup>st</sup> July, every year.	Submitted on 18.06.2024	
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	NA	NA	Area Not Matured for Mined out Benches for rehabilitation and Affortation.
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	NA	NA	Area Not Matured for Mined out Benches for rehabilitation and Affortation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular Monitoring should be done	Regular Monitoring system is adopted.	Regular Monitoring system is adopted through Global Enviro Labs.
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 (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2306664.50 Tons	1724791 Tons	Captive consumption (Cement Grad)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines	NA	NA	
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 (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	3899 M <sup>3</sup>	1368 M <sup>3</sup>	Removed and utilized
8b	Concurrent use or storage of topsoil	-	-	1368 M <sup>3</sup> . generated and utilized for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps to be maintained.	Separate dumps are maintained.	Mineral reject Dumps
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	Area Not Matured for Mined out Benches for rehabilitation and Affortation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	604 Nos 0.2 Ha	604 Nos 0.2 Ha	Total 67947 Nos of planted within

				8.65 ha lease area.  113543 Nos of plants planted at outside the lease.
8g	Survival rate	80%	85%	
8h	Water sprinkling on roads to control airborne dust	Regular water Sprinkling to be done.	Water sprinkling system is installed for main haul roads and water tanker is provided for working benches to suppress the airborne dust.	
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 Online Monthly and Annual returns	M.R. Submitted up to Nov 24.  A.R. Submitted up to 2023-24 on 18.06.2024.	

S. N.	Item	Details GIVEN in A.R.(2023-24)	Observation of Inspecting Officer	Remarks
9b	Data Submitted in Annual return for information on Mining Engineer, Geologist and Manager	K. Naga Thulasi Reddy, (Mines Manager & Mining Engineer), N. Sivaprasad, Geologist	Found in order	
9c	Data Submitted in Annual return on land use pattern for area	Under mining =56.45 Ha	Found in order	

	under pits, reclaimed area, dumps etc.	Mineral Storage = 14.72 Ha Infrastructure (Magazine) = 0.25 Ha Roads = 8.09 Ha Top soil stock = 0.00 Ha Others(Green belt) – 8.65 Ha <b>Total = 88.16 ha.</b>		
9d	Data Submitted in Annual return on afforestation	604nos of plants are planted at with in lease.	Found in order	
9e	Data Submitted in Annual return on mineral reject generation (Grade & quantity)	143405 tons of Mineral reject is generated.	Found in order	
9f	Data Submitted in Annual return on ROM stock and/or graded ore	143405 tons of Mineral Rejects is added to existing mineral reject dump FY 2023-24.	Found in order	
9g	Data Submitted in Annual return on sale value, Ex. Mine price & production cost	Rs.172.80 is Ex-mine Price & Production cost.	Found in order	
9i	Data Submitted in Annual return on fixed assets	Rs. 84092690/-	Same	
9k	Data Submitted in Annual return on mining machineries	6 Nos of TIPPER with capacity of 23M <sup>3</sup> , 1 no. of WATER TANKER with capacity of 17000 Litres. 2 Nos of BACKHOE with 2.5M <sup>3</sup> bucket capacity. 1No. of DOZER with capacity 324 Hp. 1 no. of BLAST HOST DRILL with 150mm dia. 1 no. of ROAD ROLLER with 11 Tons.	Found in order	

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10- Details of violations compliance position of earlier violation pointed out: -

During the inspection no significant violation observed.

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

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