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MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/L.ST-195/HYD

Mine code : 38APR11177

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri. Srinivas Reddy, Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 07-AUG-23
- (v) Prev.inspection date : 10-MAY-23

PART-I : GENERAL INFORMATION

1. (a) Mine Name : **RACHERLA(17.82 HA)**
- (b) Registration NO. : **522**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **KURNOOL**
Village : **RACHERLA**
Taluka :
Post office :
Pin Code :
FAX No. : **08522249920**
E-mail : **WWW.priyacement.com**
Phone : **08552249919**
- (f) Police Station : **RACHERLA**
- (g) First opening date : **19-APR-12**
- (h) Weekly day of rest : **SUN**
2. Address for : **SREEPURAM**
correspondance : **BOINCHERVUPALLY, PEAPULLY MANDAL**
KURNOOL
3. (a) Lease Number : **APR3304**
- (b) Lease area : **17.82**
- (c) Period of lease : **50**
- (d) Date of Expiry : **18-APR-62**
4. Mineral worked : **LIMESTONE** Main

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5. Name and Address of the

Lessee : RAIN CEMENTS LTD
 SREEPURAM, BOINCHERVUPALLY,
 PEAPULLY MANDAL KURNOOL
 ANDHRA PRADESH
 Phone:085222249919
 FAX :08552249920

Owner : N.SUJITHKUMAR REDDY
 RAIN INDUSTRIES, 34 GREEN
 TOWERS SRINAGAR COLONY
 HYDERABAD NALGONDA
 TELANGANA
 Phone: 04023747775
 FAX : 040237477758

Agent : M Achi Reddy
 Boincheruvu, Peapully
 mandal KURNOOL ANDHRA
 PRADESH
 Phone:
 FAX :

Manager

Name : C Sreenivasa Reddy
 Qualification : B Tech Mining
 Appointment/ :
 Termination date

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| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 30-JUL-09 |
| Plan/Scheme of Mining | : | MP review under 17(1) MCR 2016 | 27-JAN-17 |
| | : | MP review under 17(1) MCR 2016 | 13-JAN-22 |
| | : | MP modif under 17(3) MCR 2016 | 11-JAN-23 |
| | : | MP modif under 17(3) MCR 2016 | 11-JAN-23 |

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|------------------|
| 1a | Backlog of previous year | No such specific proposal. | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal. | Nil | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No proposal. | Entire mineralised area has been explored under G1 level. | |
| 1e | Balance reserve as on 01/04/20 | As per the approved document dated 10.01.2023, the Limestone reserves are 15.62 mil.t | due to depletion/addition over the period of time the updated reserves as on dated 01.04.2023 are limestone: 15.52 milt.t. | grade Cao 46.81% |
| 1f | General remarks of inspecting officers on geology, exploration etc | | The lease area forms a part of Cuddapah super group which has two distinct sub basins (Kurnool and palandbasin). These sub basins are made up of sandstone, shales, Limestone which is included in the Kurnool subgroup of middle to upper Proterozoic age co-relabel with lower Vindhyan supe group of (semri series). | |

Development :

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---|
| 2a | Location of development w.r.t.lease area | one pit between grid location E816207-E816298 & N1684820-N1685100 | Work done within the proposed co-ordinates | common boundary working with Rachela-1 mine of same lessee. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | no top soil & OB generation are envisaged. benches in mineral are proposed. | benches in mineral are maintained. | |
| 2c | Stripping ratio or ore to OB ratio | No proposal. | Nil | |
| 2d | Quantity of topsoil generation in m3 | No proposal. | Nil | |
| 2e | Quantity of overburden generation in m3 | No proposal. | Nil | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | development is carried out by opencast mining method as proposed. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------------------------------|-------------|---------|
| 3a | Number of pit proposed for production | one | one | |
| 3b | Quantity of ROM mineral production proposed | 179100 t during the year 2022-23. | 170500 t | |
| 3c | Recovery of sailable/usable mineral from ROM production | 179100 t | 170500 t | |
| 3d | Quantity of mineral reject generation | No proposal. | Nil | |

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| 3e | Grade of mineral rejects generation and threshold value declared. | No proposal. | 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 | Mechanised. | Mechanised. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal. | Nil. |
| 3j | Provision of drilling and blasting in mineral benches | drilling and blasting is proposed. | drilling & blasting is carried out. |
| 3k | Provision of mining machineries in mineral benches | excavator and dumper combination is proposed for excavation. | excavator and dumper combination is deployed for excavation. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 9 m | maintained. |
| 3m | Total area covered under excavation/pits | 3.59 ha | 3.46 ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | No proposal. | Nil |

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|----|--|--|---|
| 3o | Total area put in use under different heads at the end of year | 4.84 ha | 4.62 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 - 274469 Te 2019-20 - 293978 Te 2020-21 - 275135Te 2021-22 - 278261Te 2022-23 - 179100 Te | 2018-19 - 80000 Te 2019-20 - 42550 Te 2020-21 - 80450 Te 2021-22 - 180000 Te 2022-23 - 170500 Te |
| 3q | General remarks of inspecting officers on method of mining etc. | | production is carried out from one pit by opencast mining method as proposed. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|-------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | no OB, top soil generation is envisaged. | Nil | |
| 4b | Location of topsoil, OB and mineral reject dumps | No proposal. | Nil | |
| 4c | Number of dumps within lease area and outside of lease area | No proposal. | Nil. | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | No proposal. | Nil. | |
| 4e | Number of active and alive dumps. | No proposal. | Nil. | |
| 4f | Number of dead dumps. | No proposal. | Nil. | |
| 4g | Number of dumps established. | No proposal. | Nil. | |

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|----|--|--------------|--------------------------------------|
| 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 dumps | No proposal. | Nil |
| 4j | Number of settling ponds | No proposal. | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | | No OB/waste generation is envisaged. |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|-------------|--|
| 5a | Status of 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 mineral out area (Rule 32) | No Proposal. | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | No Proposal. | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Not envisaged, as area is not matured for reclamation. |

Progressive Mine Clousre Plan:

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---------------|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | PMCP report to submitted submitted before 1 st July. | | |
| 6b | Area available for rehabilitation (ha) . | No proposal. | Nil | |
| 6c | afforestation done (ha). | 0.03 ha during the year 2022-23. | 0.07 ha | |
| 6d | No. of saplings planted during the year | 100 nos | 150 nos | |
| 6e | Cumulative no .of plants | | 1120 nos | |
| 6f | Any other method of rehabilitation | No proposal. | Nil | |
| 6g | Cost incurred on watch and care during the year | | Not assessed. | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No proposal. | Nil | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal. | Nil | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area | No proposal. | Nil | |

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| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal. | Nil | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No proposal. | Nil | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | No proposal. | Nil | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | No proposal. | Nil | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No proposal. | Nil | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB. | Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out. | parameters are within the limits. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | PMCP measures were carried out as proposed. | |

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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-------------------------|--|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | proposed. | carried out. | entire ROM (Limestone) of cement grade is used in the captive 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 limestone. | cement grade limestone. | |
| 7d | Any beneficiation process at mines . | No proposal. | Nil. | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | entire ROM (limestone) of cement grade is used at captive plant. | |

Environment:

| Sl.No. | Item | Propasals | Actual work | 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) | No proposal. | Nil | |

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| 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 operations (Pits, dumps etc) | No proposal. | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 100 nos | 150 nos |
| 8g | Survival rate | | 75% |
| 8h | Water sprinkling on roads to control airborne dust | water sprinkling on haul roads for dust suppression is proposed. | carried out |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | aesthetic beauty in and around the mines area is maintained. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|-------------|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017. | submitted. | |

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|----|---|--|---|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | (i) Graduate Mining Engineer 1,(ii) Diploma Mining Engineer 1,(iii) Geologist 1 | found to be in order. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (i) Covered under current (O-C) Workings 3.460 ha,(ii) Occupied by plant, buildings, residential, welfare buildings and roads 1.160 ha | found to be in order. |
| 9d | Scrutiny of Annual return on afforestation | 150 nos | found to be in order. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | found to be in order. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM closing stock is Nil. | found to be in order. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex-mine price Rs.171.32/t | Ex-mine price Rs.171.32/t |
| 9h | Scrutiny of Annual return on fixed assets | Rs.193429036 | combined information with Racherla-1 mine |
| 9k | Scrutiny of Annual return on mining machineries | TIPPER 23.000 CUM 2, BACK HOE 2.500 CUM 1, BLAST HOST DRILL 150.000 MM 1 etc., | found to be in order. |

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

| Violation observed | | | Show couse position | | |
|--------------------|-----------|---------------|---------------------|-----------|---------------|
| Rule NO. | Issued on | Compliance on | Rule NO. | Issued on | Compliance on |

Date :**(RAMKISHAN R)**

Indian Bureau of Mines