

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-4/HYD

Mine code : 38APR14014

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri M.Srinivasa Reddy-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 04/02/2021
- (v) Prev.inspection date : 23/08/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMAPURAM**
- (b) **Registration NO.** : **IBM/522/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : **TELANGANA**
District : **NALGONDA**
Village : **RAMAPURAM**
Taluka : **KODAD**
Post office : **RAMAPURAM**
Pin Code : **508246**
FAX No. : **08683-234608**
E-mail : **srinivasareddy@priyacement**
Phone : **08683-234607,234608**
- (f) Police Station : **MELLACHERVU**
- (g) First opening date : **11/01/1986**
- (h) Weekly day of rest : **SUN**
2. Address for : **PRIYA NAGAR, RAMAPURAM**
correspondance : **MELLACHERVU MANDAL**
NALGONDA DISTRICT
3. (a) Lease Number : **APR1318**
- (b) Lease area : **51.5**
- (c) Period of lease : **20**
- (d) Date of Expiry : **11/02/2019**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : RAIN INDUSTRIES LTD
 34, GREEN TOWERS SRINAGAR
 COLONY HYDERABAD HYDERABAD
 TELANGANA
 Phone: 04023747775
 FAX : 040237477758

Owner : N. SUJITH KUMAR REDDY
 RAIN INDUSTRIES LTD, PLOT
 34 SRINAGAR COLONY HYDERABAD
 HYDERABAD TELANGANA
 Phone: 3740737, 3740747
 FAX : 3740770

Agent : C. BALANAGAI AH
 RAIN IND LTD, RAMAPURAM
 NALGONDA DIST. NALGONDA
 TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : V. PARAMESWARA RAO, Full Time
 Qualification : B. TECH MINING
 Appointment/ : 13/11/2008
 Termination date

Geologist

Name : A. JAGANNADHA REDDY, Full Time
 Qualification : M. SC (GEOLOGY)
 Appointment/ : 05/09/2008
 Termination date

Manager

Name : M. SRINIVASA REDDY
 Qualification : AMIE (MINING)
 Appointment/ : 21/12/2009
 Termination date

6. Date of approval of Mining : Renewal under rule 22 MCR1960 28/02/2002
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 23/04/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---------------------------------------------------------------------|-------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1a | Backlog of previous year | No exploration proposal for 2019-20 | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | -do- | Nil | By the end of 31.03.2020 under G1 scale of exploration about 242.89 ha was covered and under G2 -64.32 ha was covered. During 2020-21 (as on 31.01.2021) - Entire lease area of 417.95 ha covered under G1 level of exploration. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | -do- | Nil | During 2020-21 the Exploration agency is M/s Global Env. and Mining Service - Hospet. Exploration cost for drilling 22 CBH for total 939m in Rs. 16,39,750/- |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Another 110.74 ha | No exploration carried. | However entire lease area has been explored in G1 level in 2020-21. |
| 1e | Balance reserve as on 01/04/20 | 168.85 million tonnes | 167.84 million tonnes | |

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|----|--------------------------------------------------------------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1f | General remarks of inspecting officers on geology, exploration etc | - | - | The ore body in the mining lease is having trend N 25 degree E - S25 degree W and gentle dip of 5 degree to 25 degree and it is tabular and uniform in nature. The violation issued under rule 11(1) for not carrying out exploration by means of 22 core bore holes, is complied. |
|----|--------------------------------------------------------------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2a | Location of development w.r.t.lease area | Pit NO.1 (TOWARDS SOUTH AND SE) N-256,E-529 S-270, E-1450 S-770, E-1140 S-105,E-244 (TOWARDS SOUTH & SE) Pit no.2 S-150,E--139 S-565,W-185 S-433,W-369 S-528,W-450 S-415, W-613 S-117,W-226 | Pit NO.1 N-256,E-529 S-270, E-1450 S-770, E-1140 S-105,E-244 Pit no.2 (TOWARDS SOUTH AND SE) S-150,E--139 S-565,W-185 S-433,W-369 S-528,W-450 S-415, W-613 S-117,W-226 | None |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No benches are there in Top soil and four benches were proposed in ore | Three benches in pit no 1 were observed during the inspectilon Fourth bench under development stage. Pit - 2) 2 benches have been observed. | |
| 2c | Stripping ratio or ore to OB ratio | No such approved proposal for 2019-20 | Nil | |
| 2d | Quantity of topsoil generation in m3 | 6164 Cu.m | 5000 Cu.m | None |

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|----|-----------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------|------|
| 2e | Quantity of overburden generation in m3 | OB generation not assessed during 2019-20. | Nil | None |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The mining operations are being carried out as per the proposal made in the approved document. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 3a | Number of pit proposed for production | It was proposed to work in two pits | During the inspection it was observed that excavation is being carried out in two pits | The dimensins of the pits are as follows: Pit No.1 - 1200 m x 580m x 32m Pit No.2 - 640 m x 420m x 16m |
| 3b | Quantity of ROM mineral production proposed | During 2019-20 year it was proposed to produce 1.53935 Million tonnes | 0.803 million tonnes | None |
| 3c | Recovery of sailable/usable mineral from ROM production | It was proposed to use entire ROM generated in the cement plant of the lessee. | Entire ROM generated is being consumed in the cement plant of the lessee. | |
| 3d | Quantity of mineral reject generation | MR generation not assessed during 2019-20 and there was no proposal for generation of mineral reject | Mineral reject has not been generated duirng the year 2019-20 | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable - | - | - |
| 3f | Quantity of sub grade mineral generation. | SG generated not assessed during 2019-20 due to which there was no proposal for SG generation. | None | |

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|----|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3g | Grade of sub grade mineral generation | Not Applicable | Not Applicable |
| 3h | Manual / Mechanised method adopted for segregating from ROM | No segregation of ore is required hence not proposed | None |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | None | None |
| 3j | Provision of drilling and blasting in mineral benches | It was proposed to use wagon drills,Burden-4m,Spacing-7m,Depth of hole-9.9m,Slurry Explosive : ANFO - 25:75 | During the inspection it was observed that wagon drills,dumpers,excavators are being used for drilling,loading & transportation of ore to crushing plant Burden - 4m, spacing - 7m, Depth of Hole 9.9m, Slurry Explosive : ANFO - 25:75 |
| 3k | Provision of mining machineries in mineral benches | It was proposed to use excavators & tippers for drilling, loading & transporting ore to crushing plant | During the inspection it was observed that wagon drills,dumpers & excavators are being used for drilling,loading and transportation of ore to crushing plant |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | It was proposed to maintain bench height of 5-9 meters. | During inspection it was noticed that the height of benches being maintained between 5-9 meters and digging height of the excavator is compatible with bench height as per MMR 1961. |
| 3m | Total area covered under excavation/pits | 86.74 ha | 85.22 ha |
| 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 | 141.24 ha (As on 31/3/2022) | 85.22 ha Mining Pit. Infrastructure - 9.6 Ha. Green Belt - 26.26 Ha. |

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| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16-1.49 million tonnes 2016-17-1.49 million tonnes 2017-18-1.53 million tonnes 2018-19-1.53 Million tonnes 2019-20 - 1.53 million tonnes | 2015-16-0.920 tonnes 2016-17-0.959 tonnes 2017-18-0.782 tonnes 2018-19-1.01 tonnes 2019-20- 0.803 tonnes | Million Million Million Million Million | |
| 3q | General remarks of inspecting officers on method of mining etc. | - | - | | There is no deviation in the production of mineral during the year 2019-20. Mechanised opencast mining method has been adopted with deep hole drilling and blasting techniques for the ore fragmentation. For loading, haulage, front end shovels 7 dumpers are being used. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | No proposal for dumping of top soil, OB & Mineral Reject. | Top soil temporarily stacked. No OB & Mineral reject dump is there. | |
| 4b | Location of topsoil, OB and mineral reject dumps | Spreading top soil for Green Belt Development (GBD) | Top soil spreaded for GBD. | |
| 4c | Number of dumps within lease area and outside of lease area | No OB, Waste, MR dump is there in the ML. Hence no such proposal. | No OB, Waste, MR dump is there. | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Not Applicable | Not Applicable | |
| 4e | Number of active and alive dumps. | No such proposal. | Nil | |

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| 4f | Number of dead dumps. | No such proposals | None |
| 4g | Number of dumps established. | No such proposals | None |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No such proposals | None |
| 4i | Length of Retaining wall or garland drain all along dumps | No such proposals | None |
| 4j | Number of settling ponds | No such proposals | None |
| 4k | Specific comments of inspecting officer on waste dump management | | No OB, Top soil, Mineral Reject dump is there within the ML. |

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. | There was no proposal for reclamation. Mineral is yet to be extracted up to the UPL. | No reclamation was carried out during 2019-20 | |
| 5b | Area under backfilling of mined out area | Mined out area is not proposed to reach its ultimate pit limit. Therefore backfilling is not proposed. | No area has become matured for reclamation. Therefore, no back filling was carried out. | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | The top soil generated is being temporarily stacked and used for plantation. | The same was observed during the inspection | |
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | |

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| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | - | - | No location/block of the mine has reached its ultimate pit limit. Therefore, no backfilling and reclamation was carried out during 2019-20. |
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Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | It was proposed to submit all the statutory returns on time. | The yearly report was submitted for 2019-20 on 27.6.2020. | |
| 6b | Area available for rehabilitation (ha) . | No such proposals approved for 2019-20. | NA | |
| 6c | afforestation done (ha). | 1.64 ha (2019-20) | Gap Plantation has been done. | Cumulative afforested area- 26.26Ha within ML with 119895 nos plants. |
| 6d | No. of saplings planted during the year | 2000 Nos | 1605 Nos Gap Plantation. | Violation has not been issued for short fall as during 2020-21 (upto 04.02.2021) 34000 nos sappling has been planted in 4.00 Ha within ML. |
| 6e | Cumulative no .of plants | | As on 31-03-2020 a total of 119895 nos of plant have been planted in 26.26 ha. within the ML. | |
| 6f | Any other method of rehabilitation | Nil | Nil | None |
| 6g | Cost incurred on watch and care during the year | - | 1,60,000/- | |

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| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No such proposal | Nil | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No such proposal | Nil | - |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | No such proposal | Nil | - |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No such proposal | Nil | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No such proposal | Nil | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | No such proposal | Nil | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | No such proposal | Nil | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No such proposal | Nil | |

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| 6p | Compliance of environmental monitoring (core zone and buffer zone) | It was proposed to carry out environmental monitoring in core & buffer zone every quarter. | Quarterly monitoring of the environmental parameters such as Air/Noise/Water etc are being carried out regularly and all the parameters are within the permissible limits. | Ambient Air Quality-6 core & 3 buffer zone locations. Water Quality-3 core 3 buffer zone locations Noise Level-3 core & 3 buffer zone locations. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | - | The proposal made in the PMCP for plantation and environmental monitoring are being carried out regularly. 2.41 Ha area has already been considered as fully reclaimed and rehabilitated. | - |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | There was no proposal for gradewise sortig within lease area | Total ROM being consumed int he captive cement plant of lessee company | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not Applicable | Not Applicable | None |
| 7c | Different grade of mineral sorted out at mines. | Not Applicable | Not Applicable | None |
| 7d | Any beneficiation process at mines | Nil | None | None |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | - | The entire ROM being produced is being consumed in the captive cement plant of the lessee. | |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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|----|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Separate removal and utilisation of topsoil is proposed. It was proposed to generate 6164 Cu.M of topsoil during 2019-20. | During the inspection, it was observed that the top soil generated being used concurrently for plantaiton purpose. | |
| 8b | Concurrent use or storage of topsoil | It was proposed to use concurrently the top soil generated for plantation purpose. | During the inspection it was observed that the top soil generated isbeing used concurrently for plantation purpose. Further, it was reported that about 6164 Cu.m of top soil was generated during 2019-20. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No such approved proposal for 2019-20 in respect as OB, waste, MR. | Not done. | None |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | -do- | Not done | None |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | -do- | Not done | None |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | It was proposed to plant about 2000 saplings during the year 2019-20 | Besides, plantation done by lessee, few shrubs are observed in the mining lease area. During the year, about 1605 saplings were planted by the lessee. | As on 31-03-2020 a total of 119895 nos of plant have been planted in 26.26 ha. within the ML. |
| 8g | Survival rate | 70% | 70% | |

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|----|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---|
| 8h | Water sprinkling on roads to control airborne dust | It was proposed to carry out control of dust generation by using water sprinklers | Water sprinkling was done with 17 KL Water Tanker. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | - | Topsoil generated is being used for plantation. Dust suppression methods such as water sprinkling being used. | - |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|
| 9a | Status of submission of Monthly and Annual returns | To be Submitted. | Monthly and Annual Returns are being submitted regularly. | None |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | As per the Annual return of 2019-20, It was reported that Sri M.Srinivasa Reddy is the Mining Engineer and Sri A.Jaganadha Reddy is the Geologist | Sri M.Srinivasa Reddy is the Mining Engineer and Sri A.Jaganadha Reddy is the Geologist | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | As per the annual return 2019-20 the total area put to use under various heads is follow: Working pit - 85.22 ha Area covered by building, road/plant etc. - 9.60 ha Area under greenbelt - 26.26 ha | Working pit - 85.22 ha Area covered by building, road/plant etc. - 9.60 ha Area under greenbelt - 26.26 ha | None |
| 9d | Scrutiny of Annual return on afforestation | 1605 nos. WML and 930 outside ML | Saplings 1605 nos in gapping area and 930 outside ML planted | |

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|----|-----------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | None |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | | As per the Annual Return 2019-20, the total ROM production was reported as 0.803 million tonnes | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | | Th ex-mine price reported as per Annual return 2019-20 is Rs.186.04 | |
| 9h | Scrutiny of Annual return on fixed assets | - | As per annual return the value of fixed assets reported was Mining machinery of Rs 7.00 crore purchased. | |
| 9k | Scrutiny of Annual return on mining machineries | - | <ol style="list-style-type: none"> 1. Shovel(Hydraulic) - 2.8 cu.m. - 1 No 2. Excavator - 2.6 cu.m. - 1 No. 3. Dumper - 35 tonne - 4 units 4. Dozer - 320 HP - 1 No. 5. Air compressor - 15.290 cu.m. - 1 No 6. Water Tanker - 17000 litre capacity -1 No 7. Generator - 1 no. | |

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 :

(S K MUDULI)

Indian Bureau of Mines