

**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 : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri M Srinivasa Reddy. Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 23-AUG-23
- (v) Prev.inspection date : 28-JUL-22

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-JAN-86**
- (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-FEB-19**
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. BALANAGAIAH
 RAIN IND LTD, RAMAPURAM
 NALGONDA DIST. NALGONDA
 TELANGANA
 Phone:
 FAX :

Geologist
 Name : A.JAGANNADHA REDDY, Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/ : 05-SEP-08
 Termination date

Manager
 Name : M.SRINIVASA REDDY
 Qualification : AMIE (MINING)
 Appointment/ : 21-DEC-09
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	28-FEB-02
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	23-APR-18
	:	MP review under 17(1) MCR 2016	10-DEC-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None in the year 2022-23.	None in the year 2022-23.	One DTH borehole was drilled in the year 2021-22, as per the proposal.
1b	Exploration over lease area for geological axis 1 or 2	One DTH borehole was proposed in the year 2021-22 to convert G2 level to G-1 Level.	Exploration was carried out as per the proposal.	Entire Mineralized area is explored under G-1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	In the present plan period exploration was carried out by	
1d	Balance area to be explored to bring Geological axis in 1 or 2	5.64Ha ha G2 to G1 level.	5.62Ha was converted to G-1 level from G-2 level.	Entire mineralized area is explored under G-1 level.
1e	Balance reserve as on 01/04/20	Reserves/resources as per approved document dated 10.12.2021 is as follows. Unit in Million tonnes, (Estimation as on 01.12.2021). Proved Mineral Reserves (111) - 206.832 Probable M Reserves (122) - 1.429 Measured M Resources (331) - 116.863 Indicated M Resources (332) - 2.763 Total: 327.887	Reserves/resources as on 01.04.2023 is as follows. (Unit in Million tonnes) Proved Mineral Reserves (111) - 205.569 Probable M Reserves (122) - 1.429 Measured M Resources (331) - 116.863 Indicated M Resources (332) - 2.763 Total: 326.624	Reserves/resources were updated by depleting the production carried out in the year 2022-23.

1f	General remarks of inspecting officers on geology, exploration etc	The deposit belongs to the Narji Limestone formation of Kurnool group. The grade of the limestone varies from 34.00Cao to 46.00% Cao. The general strike of the formation is N 25 E to S 25 W and In north western part and N 55 E to S 55 W in the Soputhern part of the lease. The dip of the formation varies from 5 to 25 degree towards SE.	Entire mineralized area is explored under G-1 level by drilling 100 exploratory boreholes to a total depth of 4375 mtrs.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2022-23, there was a proposal to work between the co-ordinates N 391705 to N392545 & E 1861141 to E1861887 in pit no- 1 and In Pit No-2, working was proposed between the co-ordinates- N390541 to N 390781 and E 1861351 to E 1861571.	In the year 2022-23 working has been carried out between the co-ordinates N 391771 to N 392525 & E 1861151 to E 1861680 in pit No.-1 and in pit no-2 working has been carried out between the co-ordinates N390523 to N 390911 and E 1861305 to E 1861631.	In pit no-1 working has been carried out within the proposed limit. However, in pit no-2 some deviation is observed. However, since lessee has submitted Modified mining plan approval by rectifying correct working positions violation is not pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed benches in ore only.	Existing benches are in ore only.	No topsoil and OB was proposed and handled in the present plan period. Total four benches were observed in pit one and Two benches in pit-2, Height of the bench was maintained 6 to 7 mtrs and width morethan 15.00 mtrs.

2c	Stripping ratio or ore to OB ratio	1:0	1:0	No OB was proposed and handled in the present plan period.
2d	Quantity of topsoil generation in m3	2248 in the year 2022-23.	2250 in the year 2022-23.	
2e	Quantity of overburden generation in m3	None.	None.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Working was proposed in two pits to maintain the quality. In pit no-1 working was almost carried out as per the proposal and in pit no-2, little deviation was observed in the proposed and actual working carried out. The benches were maintained as per the proposal.	Lessee has submitted modified mining plan for approval by giving revised production proposals and in that actual pit positions were shown, so no violation is pointed out for deviation in workings in pit no-2.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits were proposed.	Working has been carried out in two pits as per the proposal.	Dimension of the pits is as follows. PitNo-1: 1269m(L) x 340m(w) x 34m(h) and pit No-2: 620m(L) x 396m(w) x 20m(h)
3b	Quantity of ROM mineral production proposed	1538501 tonnes in the year 2022-23.	1263059 tonnes ROM was produced in the year 2022-23.	Production is achieved 82% in the year 2022-23.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%.	
3d	Quantity of mineral reject generation	None.	None.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	

3f	Quantity of sub grade mineral generation.	None.	None.	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Mechanized.	
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	Yes proposed drilling and blasting in mineral benches.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 150mm for drilling and Slurry explosives for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed combination of Excavators and tippers for production and development.	Lessee is using excavators of 2.5 cum capacity and tippers of 23 cum capacity for production and development.	Additionally lessee is using drilling machine for deep hole drilling and dozer for road maintenance.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8.00 mtrs bench in the mineral.	Bench height is maintained 6.00 to 7.00 mtrs.	The strata is hard and method of mining adopted is fully mechanized. The bench height proposed and maintained is suitable for the method of mining adopted.
3m	Total area covered under excavation/pits	109.46Ha up to the end of present plan period.	Approximately 94.00 ha is covered by pits.	Total two pits are existing within the lease area, pit 1 is having an area of 69.00 Ha and pit 2 25 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	
3o	Total area put in use under different heads at the end of year	Area under Mining- 109.46Ha, Infrastructure -2.02Ha, Roads-7.58Ha,	Area under Mining- 94.00Ha, Infrastructure- 9.60ha (Buildings, Roads, etc), Solar plant-5.20Ha.	Solar plant is recently installed.

3p	Production of ROM mineral during the last five year period as applicable	2022-23 1538501 tonnes 2021-22 3937700 tonnes 2020-21 3937700 tonnes 2019-20 1539350 tonnes 2018-19 1536015 tonnes	2022-23 1263059 tonnes 2021-22 1070000 tonnes 2020-21 746000 tonnes 2019-20 803000 tonnes 2018-19 1012000 tonnes
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3q	General remarks of inspecting officers on method of mining etc.	The mine is opencast mine and lessee is adopted mechanized method by using HEMM with deep hole drilling. Benches height was maintained 6.00 to 7.00 mtrs and width morethan 20.00 mtrs. the mining method adopted is suitable for the nature of the deposit.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None.	None.	
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	
4c	Number of dumps within lease area and outside of lease area	None.	None.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None.	
4e	Number of active and alive dumps.	None.	None.	
4f	Number of dead dumps.	None.	None.	
4g	Number of dumps established.	None.	None.	

4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.	No dumps are existing within the lease area.
4i	Length of Retaining wall or garland drain all along dumps	None.	None.	
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officer on waste dump management		No dumps were proposed and made in the present plan period.	In previous plan periods also generation of waste is negligible and waste removed is utilized for making bunds, so no dumps are existing within the lease area.

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.	None.	None.	The mineral is not extracted up to the proved depth so no backfilling is proposed and made in the present plan period.
5b	Area under backfilling of mined out area	None in the year 2022-23.	None in the year 2022-23.	In the past about 1.82Ha is backfilled in the western part of Pit No-1.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	
5d	Total area fully reclaimed and rehabilitated	None in the year 2022-23.	None in the year 2022-23.	Previously about 1.82 ha is backfilled in the western part of the pit no-1.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The mineral is not extracted up to the proved depth and no backfilling was proposed and made in the present plan period. However, in the past about 1.82Ha is backfilled in the westren part of Pit No-1.
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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).	Before Ist July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	Submitted PMCP report on 28.06.2023 along with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	1.0Ha in the year 2022-23.	1.0 ha in the year 2022-23.	
6d	No. of saplings planted during the year	2000 in the year 2022-23	2000 saplings were planted in the year 2022-23.	Plantation was made near magazine area.
6e	Cumulative no .of plants	9225 in the present plan period up to 31.03.2027.	In the present plan period 2000 plantation was made up to 31.03.2023.	Total plantation done so far is 159022 saplings covering an area of 30.56Ha.
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None.	Approximately 1.5 lakhs for taking care of plantation.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	Previously about 1.82Ha (300m (L) x 60m (w)) is backfilled in the western part of pit No-1.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	None.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None in the present plan period.	None.	Previously plantation was made on the back filled area of 1.82 ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	None.	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None.	None.	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None.	None.	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None.	None.	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None.	None.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed Quarterly monitoring of Air, water and noise in the core and buffer zone.	Carried out environmental monitoring as per the proposal and results are within permissible limits.	Environmental monitoring was carried out by Global Enviro Labs, Hyderabad.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Only plantation was proposed in the present plan period and plantation was made as per the proposal. About 2000 saplings were planted in the present plan period and 159022 saplings so far. Lessee is regularly monitoring air, water and noise and all the parameters are within the limit.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise dispatch from mine head.	Dispatched Cement grade limestone from the mine head.	
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	None.	None.	Lessee is doing only dry crusing and screening.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is using entire ROM by blending lowgrade ore with high grade ore and dispatching limestone under Cement grade to the captive plant connected to the mine.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Topsoil was removed separately by scraping.	Topsoil removed was utilized for plantation work.

8b	Concurrent use or storage of topsoil	Proposed concurrent use.	The topsoil removed was utilized for plantation work.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	None.	No dumps were proposed and made in the present plan period.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None in the present plan period.	None in the present plan period.	About 1.82Ha of pit number -1 is backfilled during the previous plan period.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Provided base line information in the approved document. additionally lessee has planted about 159022 saplings within the lease area.	
8g	Survival rate	90% in the year 2022-23.	85% in the year 2022-23.	Lessee is regularly monitoring plantation by engaging separate man power.
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Regularly spraying water on working area and haul roads.	Lessee is using water tanker of 17000 ltr capacity for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Benches were made systematically and plantation was made in and around the lease area. Haul roads are properly maintained.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of Preceding month and an annual returns shall be submitted before 1st day of July of each year for the preceding financial year.	Lessee is regularly submitting monthly and annual returns within the time limit.	Submitted Annual returns for the year 2022-23 and Monthly returns up to July 2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual returns submitted for the year 2022-23, details of Mining Engineer and Geologist are as follows: Mining Engineer & Mines Manager: Shri M Srinivasa Reddy, Geologist:- Shri A.Jagannadha Reddy.	The details furnished in the annual returns is found correct.	Both Mining Enginer and Geologist were present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 89.70Ha, Infrastructure :-9.6Ha, Green belt:-30.56Ha, Reclaimed and Rehabilitated- 1.82Ha.	Area under Mining- 94.00Ha, Infrastructure- 9.60ha (Buildings, Roads, etc), Solar plant-5.20Ha.Green belt 30.56Ha.	The land use pattern furnished in the annual returns is as on 31.03.2023 and landuse details furnished under observation are as on 31.07.2023. The details furnished in the AR is almost found correct.
9d	Scrutiny of Annual return on afforestation	2000 saplings survival rate 85%.	The information furnished in the annual returns regarding number of plantation made and survival rate is found correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per the Annual returns submitted for the year 2022-23 details of ROM stock and graded ore are as follows. ROM:- Opening and closing stock is zero and ROM production reported is 1263059 tonnes. Graded Ore: Cement grade ore: Opening and closing stock is Zero and production and dispatch is 1263059 tonnes.	The information furnished in the annual returns is found correct.	Lessee has Shown entire ROM under Cement Grade and same has been dispatched to captive plant by doing size reduction.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Exmine price and cost of production:- Rs 202.43/ton.	The information furnished is found correct.	Lessee is using entire production for the captive plant so sale value is zero.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as Rs 93629891	The information furnished in the annual returns is found correct.	
9k	Scrutiny of Annual return on mining machineries	Back hoe (2.5 cum) -02, tippers of 23 cum capacity-05, Dozer-01, Rock driller-01.	The information furnished in the annual returns is found correct.	

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 :

(kalmata.M.K)

Indian Bureau of Mines