

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KNL/LST-123/HYD

**Mine code :** 38APR11056

- (i) Name of the Inspecting : **M029** ) **MADHU SUDHAN YADAV M**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.C.Sreenivasa Reddy, Manager(Mines), Sri.Shivanaga  
Official with  
Designation
- (iv) Date of Inspection : 23-DEC-21
- (v) Prev.inspection date : 28-SEP-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RACHERLA**
- (b) **Registration NO.** : **522**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : ANDHRA PRADESH  
District : KURNOOL  
Village : RACHERLA  
Taluka :  
Post office : PEAPALLY  
Pin Code :  
FAX No. : 08522- 249920.  
E-mail :  
Phone : 08522- 249918/19
- (f) Police Station : RACHERLA
- (g) First opening date : 15-JAN-98
- (h) Weekly day of rest : SUN
2. Address for : M/S RAIN COMMODITIES LTD,  
correspondance : BOINCHERUVUPALLY (V), PEAPULLY(M),  
KURNOOL-518220
3. (a) Lease Number : APR1257
- (b) Lease area : 510.25
- (c) Period of lease : 30
- (d) Date of Expiry : 29-JAN-27
4. Mineral worked : LIMESTONE Main  
SHALE Associated

## 5. Name and Address of the

Lessee : RAIN COMMODITIES LTD  
 34, GREEN TOWERS, SRINAGAR  
 COLONY HYDERABAD HYDERABAD  
 TELANGANA  
 Phone: 08522-249918/19, 040-40401234  
 FAX : 08522-249920

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

Agent : M.Achi Reddy  
 Rain Cements Ltd.  
 Racherla(V) Kurnool dt.  
 KURNOOL ANDHRA PRADESH  
 Phone:  
 FAX :

## Mining Engineer

Name : K.NAGA THULASI REDDY, Full Time  
 Qualification : B.E. MINING  
 Appointment/ : 20-APR-00  
 Termination date

## Geologist

Name : Dr.Y.Prabhakara Reddy, Full Time  
 Qualification : MSc. Geo  
 Appointment/ : 24-DEC-12  
 Termination date

## Manager

Name : k.Ramanjaneya Reddy  
 Qualification :  
 Appointment/ : 01-JAN-16  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22-APR-03
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	02-MAY-06
	:	Modif.approved Mining Scheme	19-DEC-06
	:	Mining Scheme rule 12 MCDR1988	16-APR-08
	:	Fresh under rule 22 MCR1960	30-JUL-09
	:	Mining Scheme rule 12 MCDR1988	12-SEP-13
	:	MP review under 17(1) MCR 2016	21-MAR-18
	:	MP modif under 17(3) MCR 2016	17-JUL-20

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2020-21 - Nil 2021-22 - 06 Nos.	2021-22 - Nil	Lessee has reported that proposed drilling will be completed before March'21.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	2020-21 - Nil 2021-22 - 39.25 Ha of G3 level to G1 level of exploration	Nil	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2021 - 316.5685 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has reported that 6 Nos. boreholes proposed to bring the G3 level area to G1 level in the Modified Mining Plan will be completed by March'21 after harvesting of crops in the proposed drilling area.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1684500 - N1684900 E815800 - E816550	Work done within the proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil benches proposed. Proposed to maintain separate bench for flaggy limestone	Flaggy limestone occurring above the payzone of limestone is being worked separately.	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	2020-21 - 4250 cu.m	2020-21 - 5512 cu.m	Thin layer of topsoil around 0.5 thickness is being scrapped and utilised for plantation purpose
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			The flaggy limestone being generated as mineral reject is occurring above the payzone of limestone.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 2397389 Tonnes	2020-21 - 1581580 Tonnes	
3c	Recovery of saleable/usable mineral from ROM production	2019-20 - 85 %	1581580 Tonnes of limestone from payzone and 251475 Tonnes of mineral reject generated from mineralised zone in 2020-21. Thus a recovery of 85% is achieved.	
3d	Quantity of mineral reject generation	2020-21 - 405937 Tonnes (Flaggy limestone is generated as mineral reject).	2020-21 - 251475 Tonnes of flaggy limestone generated as mineral reject.	

3e	Grade of mineral rejects generation and threshold value declared.	Cao - 36.48% SiO2 - 25.79%	Cao - 36.48% SiO2 - 25.79%
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil
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 proposed in the mineral benches.	During inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 150 mm & depth of 9 m, spacing of 5 meters and burden of 3 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & 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 the bench height of 8 meters	During inspection it was noticed that the bench height is being maintained 8 m and digging height of the excavators are compatible with bench height.

3m	Total area covered under excavation/pits	58.95 ha till 2022-23	53.19 ha till 2020-21	
3n	Ore to OB ratio for the pit/mine during the year.	No poposal	No OB produced	
3o	Total area put in use under different heads at the end of year	Total area put to use as per plan is 88.69 ha till 2022-23.	Total area put to use till 2020-21 is 80.185 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17- 2724004 Te 2017-18- 2719625 Te 2018-19 - 1981121 Te 2019-20 - 2221680 Te 2020-21 - 2397389 Te	2016-17- 1282230 Te 2017-18- 1332767 Te 2018-19 -1496000 Te 2019-20 - 1211500 Te 2020-21 - 1581580 Te	Lessee has reported that ROM production is less due to less market demand.
3q	General remarks of inspecting officers on method of mining etc.			Mining is carried out in common lease boundary with Racherla Limestone Mine-2 by obtaining permission from DGMS.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Flaggy limestone generated was proposed to dump separately.	Being dumped separately as proposed.	
4b	Location of topsoil, OB and mineral reject dumps	In the year 2020-21, mineral reject dumping was proposed at N1685865-168570 & E817613-817505	Mineral reject dumping was done at the proposed dump location in 2020-21.	
4c	Number of dumps within lease area and outside of lease area	Two dumps within the lease area.	Two dumps are within the lease area. Dumping is being carried out only at one dump.	Two old dumps, Mineral reject-1 & Yellow ochre-1 is noticed outside the lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	UPL marked on the conceptual plan	Mineral reject is being dumped at proposed site proved for the presence of mineral.
4e	Number of active and alive dumps.	One dump proposed	Active -1 dump
4f	Number of dead dumps.	-----	One dead dump has been noticed within the mining lease.
4g	Number of dumps established.	2020-21 - Nil	2020-21 - Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	265m of Garland drain proposed along the grade dumps Retaining Wall - No proposal	Garland drain made around the mineral reject dump
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall - No proposal Garland drain - 1348m	Garland drain - 1350m
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		The mineral reject dumps are of flaggy limestone which is having a Cao-36.48% and SiO2-25.79%.

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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)	Proposed	The top soil generated is used for plantation.	

5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

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).	To be submitted as per rule	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2020-21 - 0.56 Ha	2020-21 - 1.08 Ha	
6d	No. of saplings planted during the year	2020-21 - 1000 Nos.	2020-21- 2410 Nos.	
6e	Cumulative no .of plants	No proposal	16362 Nos. as per the PMCP data submitted.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
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)Afforestation on backfilled area	No proposal	Nil	
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)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2397389 Tonnes of limestone from payzone and 405937 Tonnes of mineral reject generation was anticipated from the mineralised zone.	1581580 Tonnes of limestone from payzone and 251475 Tonnes of mineral reject generated.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Flaggy limestone is considered as mineral reject. However it is used for blending whenever required.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to scrap and use for plantation	Thin layer of around 0.5 meters of topsoil scrapped and utilised for plantation.	
8b	Concurrent use or storage of topsoil	Proposed	Top soil is used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperated dump for flaggy limestone is proposed	Seperated dump for flaggy limestone is maintained	

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)	No proposal	Nil	
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers and sprinklers to be provided for dust suppression.	Water tanker & sprinklers provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done on the old dead dumps and in the buffere zone.

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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.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - K. Naga Thulasi reddy Geologist- Dr. Y Prabhakar Reddy	Mining Engineer - Sri. K. Naga Thulasi reddy Geologist- Sri. Shivanagaraju	Sri. Shivanagaraju, Geologist appointed on 14/10/2021.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast pit- 51.095 ha Dump- 11.09 ha Infrastructure - 8.605 ha	Same as submitted.	
9d	Scrutiny of Annual return on afforestation	2410 outside lease area	Broadly as submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	251475 Tonnes of mineral reject is reported	251475 Tonnes of mineral reject reported is verified in the register maintained.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1581580 Tonnes is reported as ROM production	1581580 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.149.46/-	Total overhead cost is not matching with the cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division	Lessee has reported that cost of production decreased due to change in tippers. New tippers fuel consumption is 8-9 lt/hr compare to old dumpers of fuel consumption 19-20 lts/hr.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.180999950/-	Fixed assest couldn't be verified.	
9k	Scrutiny of Annual return on mining machineries	Tippers - 06 Nos. Backhoe - 02 Nos. Dozer - 01 No. Blast hole drill machine - 1 No. Water tanker - 1 No.	Machineries found in the mining area.	

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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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines