

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 38APR11177

- (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. Shivan
Official with
Designation
- (iv) Date of Inspection : 22-DEC-21
- (v) Prev.inspection date :

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** : **20**
- (d) **Date of Expiry** : **18-APR-32**
4. **Mineral worked** : **LIMESTONE** **Main**

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

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

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	No proposal	Nil	Entire area has been explored under G1 level.
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	No proposal	Nil	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2021 - 16.092 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Entire area is covered under G1 level of exploration. No further exploration proposed.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development proposed S-150-350 W1150-1350 upto 491mRL	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral bench was proposed	No top soil, Overburden or mineral reject generation observed in this part of lease.	
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			No topsoil and overburden is generated in this lease area.

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 - 275135 Te	2020-21 - 115000 Te	Lessee has reported that less production due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	100% recovery.	100% recovery.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
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.	Wagon drill being used for drilling with a blast hole dia of 115 mm & 150mm with depth of 9 m, spacing of 6 meters and burden of 4 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 not more than 8 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	3.15 hectare till 2021-22.	Area covered under pit till 2020-21 - 3.17 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil

3o	Total area put in use under different heads at the end of year	Area covered under pit till 2020-21- 3.15 Ha. Green belt - 0.26 Ha	Area covered under pit till 2020-21 - 3.17 Ha. Green belt - 0.21 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17= 292262 Te 2017-18=299638 Te 2018-19= 274469 Te 2019-20=293978 Te 2020-21=275135 Te	2016-17= 100000 Te 2017-18=80030 Te 2018-19= 42520 Te 2019-20=80450 Te 2020-21=115000 Te	
3q	General remarks of inspecting officers on method of mining etc.			This Lease area(ML-2) is being worked with common mine boundary of ML-1.

Solid Waste Management - Dumping:

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

4g	Number of dumps established.	Nil	Nil	
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 waste dump established in 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.	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	No topsoil generation in the lease area.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area of the mine is excavated upto its ultimate pit limit to start backfilling.
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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).	To be submitted as per rule	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2020-21 - 0.0507 Ha	2020-21 - 0.06 Ha	
6d	No. of saplings planted during the year	2020-21 - 100 Nos.	2020-21 - 120 Nos.	
6e	Cumulative no .of plants	Nil	370 Nos.	
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.	100 saplings over 0.0507 Ha proposed in 7.5m buffer zone	120 Nos. saplings planted in 0.6 Ha area.
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	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	Entire ROM utilized directly for captive purpose	
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			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for 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	
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 sapling proposed for plantation over an area of 0.0521 Ha	250 saplings planted over an area of 0.15 Ha.	
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Additional plantation is being done by lessee in the safety zone to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - N. JYOTHI SWAROOP REDDY Geologist - R.PRASANNAKUMAR	Mining Engineer - Sri. N. Jyothi Swaroop Reddy Geologist - Sri. Anil Kumar	Sri. Anil Kumar, Geologist appointed on 16/07/2021.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pit - 3.17 ha. Plantation - 0.21 ha.	Broadly as per submission	
9d	Scrutiny of Annual return on afforestation	120 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated in the lease area.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.147.46/-	Ex-Mine price is 147-46/-	
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	Dumper-35 Te Shovel (hydraulic) - 2.6cu.m Water Tanker - 1 No. Blast hole drill machine -1 No.	As per submission	Machineries utilised for the both the leases (ML-1 & ML-2) having common mine boundary permission.
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines