

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri. K. RAMANJANEYA REDDY GM(MINES) & Sri. N.Narayana
Official with
Designation
- (iv) Date of Inspection : 07/06/2017
- (v) Prev.inspection date : 15/11/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RACHERLA**
- (b) **Registration NO.** :
- (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** : 15/01/1998
- (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** : 29/01/2027
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/ : 20/04/2000
 Termination date

Geologist

Name : Dr.Y.Prabhakara Reddy, Full Time
 Qualification : MSc. Geo
 Appointment/ : 24/12/2012
 Termination date

Manager

Name : k.Ramanjaneya Reddy
 Qualification :
 Appointment/ : 01/01/2016
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22/04/2003
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	02/05/2006
	:	Modif.approved Mining Scheme	19/12/2006
	:	Mining Scheme rule 12 MCDR1988	16/04/2008
	:	Mining Scheme rule 12 MCDR1988	12/09/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	_____	471 HA	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	14 CBH, 980 M	15 CBH, 688 M Rs. 1419603.35/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	_____	39.25 HA	The balance area is covered by hill. RCL-105 is drilled on the top of the hill. The strata are Quartzite-22m, Shale-14m, cavity-18m which indicates highly disturbed and non mineralised zone.
1e	Balance reserve as on 01/04/20	145.88 million tonnes	152.00 million tonnes	The balance reserves are on higher side due to less production than proposed.
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	The entire mineralised area has been covered under G1 scale of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North East Direction	North East Direction	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB benches-3 Mineral benches-4	OB benches-3 Mineral benches-4	Three OB benches are having sub grade mineral
2c	Stripping ratio or ore to OB ratio	1: 0.087	1:0.362	

2d	Quantity of topsoil generation in m3	3750 m3	3394 m3
2e	Quantity of overburden generation in m3	91425 m3	126082 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development and production is proposed in seven benches	The development and production is achieved in seven benches

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2724004 MT	1282230 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	N.A	N.A	
3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	
3f	Quantity of sub grade mineral generation.	91425 m3	60129 m3	
3g	Grade of sub grade mineral generation	CaO-35.60 %, Sio2-22.80%	CaO-40.11 %, Sio2-23.25%	
3h	Manual / Mechanised method adopted for segregating from ROM	N.A	N.A	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A	N.A
3j	Provision of drilling and blasting in mineral benches	Wet drilling and controlled blasting with Nonels	Wet drilling and controlled blasting with Nonels
3k	Provision of mining machineries in mineral benches	Excavators and Dumpers	Excavators and Dumpers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	10.02 ha	6.0 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.087	1:0.205
3o	Total area put in use under different heads at the end of year	Under mining - 54.81 ha green belt- 10.70 ha Sub grade dump-2.28 ha Magazine-0.25 ha Roads-0.50ha Total-68.54 ha	Under mining -49.63ha Soil dump-0.17 ha Green belt- 10.89 ha Sub grade dump-7.43 ha Magazine-0.25 ha Roads-3.67ha Total-72.04 ha
3p	Production of ROM mineral during the last five year period as applicable	2012-13- 3299850, 2013- 14--2740608, 2014-15-- 2693375, 2015- 16--2756718, 2016-17-- 2724004 MT	2012-13- 1575000, 2013- 14--1543000, 2014-15-- 1545010, 2015-16-- 1161756, 2016-17-- 1282230 MT
3q	General remarks of inspecting officers on method of mining etc.	Open cast mechanised method of mining	The mining method adopted is Opencast mechanised method. The benches have been formed systematically by maintaining proper height and width. The OB benches have been sufficiently advanced.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Maintained separately.	
4b	Location of topsoil, OB and mineral reject dumps	Outside ML area.	Maintaining the dumps within ML area as per the latest guidelines.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	NIL	Three, Outside ML area.	
4g	Number of dumps established.	NIL	3	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal has been made	----	
4i	Length of Retaining wall or garland drain all along dumps	-----	-----	
4j	Number of settling ponds	----	-----	
4k	Specific comments of inspecting officer on waste dump management	----	----	-----

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	Since the mineral is existing at depth, back filling does not arise at this stage.	
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to use the top soil for development of green belt.	As Proposed, the top soil is concurrently used for development of green belt.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____

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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	Not Applicable	Not Applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Applicable	Not Applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 plants	2357 during the year 55344 Cumulative
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.30 ha	1.1 ha
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	_____	_____
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring has been proposed in core and buffer zone	Environmental monitoring has been carried out periodically in core and buffer zone

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	_____
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There is no proposal of grade wise sorting.	The entire ROM is being fed to the crusher.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines .	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	_____

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	3750 Cu.m, Proposed to use for afforestation.	3394 Cu.m which was used for afforestation	
8b	Concurrent use or storage of topsoil	for afforestation	Used for afforestation	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	yes	
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)	2000 plants 2.0 ha	2357 plants 1.1 ha	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The greenary developed within and outside ML gives aesthetic beauty in and around the mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns need to be submitted within stipulated time	The lessee is submitting Monthly and Annual Returns within stipulated time	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Employment details needs to be furnished	The details of Mining Engineer, Geologist and Manager has been furnished in Part I of Annual return
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use details have been furnished	Land use details have been furnished
9d	Scrutiny of Annual return on afforestation	Within ML-895 Outside ML-1462	Found to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1282230 tonnes	1282230 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-Rs. 158.69	Cost of production-Rs. 158.69
9h	Scrutiny of Annual return on fixed assets	Rs.46720/-	Rs.46720/-
9k	Scrutiny of Annual return on mining machineries	The details have been furnished vide part-V, item 5 of Annual Return	Found to be correct.

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 :
(Ch.Suseela)

Indian Bureau of Mines