

**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 : **RA15**) **Rajesh Kumar Das**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri S.G.Kulkarni, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 03/02/2016
- (v) Prev.inspection date : 13/03/2014

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 : D.S.N.V.PRASAD
 BOINCHERUVUPALLI VILLAGE
 KURNOOL DISTRICT KURNOOL
 ANDHRA PRADESH
 Phone: 08522-249952
 FAX : 08522-249920

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 : S.G.KULKARNI
 Qualification : B.SC WITH FCC
 Appointment/ : 24/10/2007
 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	19 nos core drill	As per proposal 19 core drilling done.	
1b	Exploration over lease area for geological axis 1 or 2	74.84 Ha.	Broadly as per proposal.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		JP Koredrilling, Rs 1421365 for 23 holes.	
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserve as on 01/04/20	151.36 million tons	153.71 million tons	
1f	General remarks of inspecting officers on geology, exploration etc	Proposal is given for 19 core boreholes for the year 2014-15 in 200mX200m grid.	The exploration done broadly as per the proposal.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NE direction of ML area.	Broadly as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	2-3 benches	broadly as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.9	
2d	Quantity of topsoil generation in m3	7500 cu.m.	12408 cu.m.	
2e	Quantity of overburden generation in m3	125400 cu.meter.	859426 cu.meter.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The proposal has been given in six benches with a production of 2693375 MT	The working was broadly done as per proposal but production was less in 2014-15 (165051.28 MT)
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	The proposal given in single pit.	As per the proposal.	
3b	Quantity of ROM mineral production proposed	2693375 MT	165051.28 MT in 2014-15	
3c	Recovery of sailable/usable mineral from ROM production		73 % approx	
3d	Quantity of mineral reject generation		559829 tons	
3e	Grade of mineral rejects generation and threshold value declared.		Cao 35%	
3f	Quantity of sub grade mineral generation.		Nil	
3g	Grade of sub grade mineral generation	183150 m3 in 2014-15 & 125400 m3	358521 m3 in 2015-16 upto jan'16.	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

3j	Provision of drilling and blasting in mineral benches	Drilling proposed with 150mm diameter hole and blasting with combination ANFO & Slurry with NONEL.	Broadly as per proposal.
3k	Provision of mining machineries in mineral benches	machineries proposed shovel 2.5 m3,Dumper 20 m3,Dozer,Drill 150 mm dia.	The working is done with the machine proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed 8 meter.	As per the proposal development is done.
3m	Total area covered under excavation/pits	Additional area 22.79 ha for pits proposed for scheme period.Earlier broken out area-36.53 ha.	44.53 ha. -pit area
3n	Ore to OB ratio for the pit/mine during the year.	Ob generation not mentioned only flaggy limestone/subgrade proposed	NA
3o	Total area put in use under different heads at the end of year	Additional area 22.79 ha for pits . & 3.3 ha. for green belt proposed for scheme period. Area start of SOM period 36.53 ha.(pits),storage of top soil-1.28 ha,Mineral	44.53 ha. -pit area waste disposal-3.42 ha. afforestation-8.9 ha.

3p	Production of ROM mineral during the last five year period as applicable	2010-11:3297825 MT, 2011-12:3299625 MT, 2012-13:3299850 MT, 2013-14:2740608 MT, 2014-15:2693375 MT	2010-11:1647157 MT, 2011-12:1875000 MT, 2012-13:1575000 MT, 2013-14:1543000 MT, 2014-15:1545010 MT
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3q	General remarks of inspecting officers on method of mining etc.	The mine is working with opencast method having bench height of avg. 8 meter and width of bench is more than height. There are four bench and deep hole dring and blasting is adopted for production.
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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)	Yes	The proposal is given for dumping outside lease area but actually inside lease also material dump.	violation issued for deviation in dumping.
4b	Location of topsoil, OB and mineral reject dumps	Outside lease area.	The proposal for dumping Waste/overburden not given inside ML area but during inspection it was observed that two dumps were made within ML area (E side and SW direction of ML). There is no proposal of mineral reject(screen reject dump) but during mine visit it was observed huge mineral dump is developed in south boundary of ML	

4c	Number of dumps within lease area and outside of lease area	within lease no proposal & outside lease two dumps	The proposal for dumping Waste/overburden not given inside ML area but during inspection it was observed that two dumps were made within ML area (E side and SW direction of ML). There is no proposal of mineral reject(screen reject dump) but during mine visit it was observed huge mineral dump is developed in south boundary of ML
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside ML	S nSW & E side of ML
4e	Number of active and alive dumps.	two dumps outside lease	Three dump sinside lease excluding outside dump.
4f	Number of dead dumps.	NA	NA
4g	Number of dumps established.		Threes dumps inside.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain.	Garland drain as per proposal.
4i	Length of Retaining wall or garland drain all along dumps		
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		The waste is dump inside lease and carpeting of reject is carpeted some area to avoid dust.

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.	NA	Na	

5b	Area under backfilling of mined out area	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA
5d	Total area fully reclaimed and rehabilitated	NA	NA
5e	General remarks of inspecting officers on backfilling and reclamation etc.		There is no area matured for 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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).		afforestation reported outside lease area 0.7 ha in dumps (950 saplings) and 2.00 ha. (1326 saplings).	
6d	No. of saplings planted during the year		out ML area-2276 nos saplings.	
6e	Cumulative no .of plants			
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year			

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation		
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring	As per proposal.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		There is no beneficiation activity only the ROM directly feed in crusher for sizing.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	7500 cu.m	12408 cu.m.	

8b	Concurrent use or storage of topsoil	Use for afforestation	As per proposal.
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	Backfilling not yet started.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 nos sapling in 2 ha. area	2059 nos in 2.09 ha.
8g	Survival rate	no proposal	80%
8h	Water sprinkling on roads to control airborne dust	Water tanker for water sprinkling on roads.	The work carried out as per proposal.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		No adverse impact observed on aesthetic beauty due to mining activity.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns Submitted upto Jan-2016. Annual Return submitted upto 2014-15.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Sri K.Naga Thulasi Reddy,Geologis t-Dr. Y.Prabhakara Reddy & Manager-Sri S.G.Kulkarni.	The name of Mining Engineer ,Geologist & Manager mentioned in Annual Returns.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits-44.53 ha.,waste disposal-3.42 ha.	
9d	Scrutiny of Annual return on afforestation	inside lease area- Nil,outside lease area- 2276 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	559825 tones ,grade-Cao-35%	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production1650 5128 MT but no stock	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.. mine price & cost of production- 179.29 Rs,sale price nil as the material used for captive consumption.	
9h	Scrutiny of Annual return on fixed assets	Fixed asset value Rs 77584/-	

9k Scrutiny of Dumpers-7 nos
Annual return on of 35 ton
mining capacity,backh
machineries oe-1 nos of
 2.6
 cu.m,hydraulic
 shovel-2 nos
 of 2.6
 cu.m.,dozer-1
 nos of 324
 HP,Blast hole
 drill- 2 nos
 of 150 mm dia.

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 :

(Rajesh Kumar Das)

Indian Bureau of Mines