

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-9/HYD

Mine code : 38APR14026

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : A.JANAKI RAMI REDDY JGM MINES
Official with
Designation
- (iv) Date of Inspection : 01/09/2017
- (v) Prev.inspection date : 24/02/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LAKSHMIPURAM-II(GONO.131)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : **TELANGANA**
District : **NALGONDA**
Village : **IRIKIGUEDEM**
Taluka : **MIRYALAGUDA**
Post office : **WADAPALLY**
Pin Code : **508355**
FAX No. : **08689-228447**
E-mail : **iclvpm@rediffmail.com**
Phone : **08689-228580**
- (f) Police Station : **WADAPALLY**
- (g) First opening date : **01/10/1985**
- (h) Weekly day of rest : **SUN**
2. Address for : **VISHNUPURAM**
correspondance : **WADAPALLY**
: **NALGONDA**
3. (a) Lease Number : **APR0156**
- (b) Lease area : **323.12**
- (c) Period of lease :
- (d) Date of Expiry : **16/02/2010**
4. Mineral worked : **LIMESTONE** Main
: **CLAY (OTHERS)** Associated
: **SHALE** Associated

5. Name and Address of the

Lessee : THE INDIA CEMENTS LTD
 DHUN BUILDING 827, ANNA
 SALAI CHENNAI CHENNAI CITY
 TAMIL NADU
 Phone: 282521526
 FAX : 28520638

Owner : R.K.DAS
 DHUN BLDG 827,ANNASALAI
 CHENNAI CITY TAMIL NADU
 Phone: 04428521526
 FAX : 04428520638

Agent : D.MURGANANDAM
 VISHNUPURAM WADAPALLY
 NALGONDA TELANGANA
 Phone: 22844447
 FAX : 08689

Geologist

Name : G.MANOHARREDDY, Full Time
 Qualification : M.SC (APPLIED GEOLOGY)
 Appointment/ : 06/02/2014
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 17/04/2008
 Mining Scheme rule 12 MCDR1988 25/03/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	13 Boreholes.	13 Boreholes.	
1b	Exploration over lease area for geological axis 1 or 2	G1 Scale of exploration	G1 Scale of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No agency has been proposed. The expenditure is Rs.7.2 lakhs	Natural Resources development Co-op Society Ltd. The expenditure incurred is Rs.8.4 lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Small extent about 2 ha is left out for exploration which is spread by the infrastructure.
1e	Balance reserve as on 01/04/20	33.285 Million Tonnes.	35.485 Million Tonnes	The balance reserve is on heigher side since the intake from the Plant is less.
1f	General remarks of inspecting officers on geology, exploration etc	Simple sedimentary bedded deposit with the proposal of G1 sclae of exploration.	As said it is simple sedimentary deposit with no structural disturbances. The ML area is explored to G1 scale of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-II between coordinates 4976-5641 N and 3217-3640E	Pit-II between coordinates 4976-5640 N and 3217-3600E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal has been made.	-	There exists no top soil and overburden except interburden in the form of Clay pockets.
2c	Stripping ratio or ore to OB ratio	nil	1:0.05	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	24172	3333	The Overburden is in the form of Clay mixed boulders.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Simple sedimentary bedded deposit with the formation of systematic benches.	The benches have been formed systematicall by maintaining proper bench width and height.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	one	There exists two pits .
3b	Quantity of ROM mineral production proposed	14,00,000 T	7,55,312 T	Production is less than the targeted since there is a less intake of Limestone by the Plant.
3c	Recovery of sailable/usable mineral from ROM production	100%	98%	2 % is accounted for handling losses and intercalated Clay material.
3d	Quantity of mineral reject generation	Nil	-	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	-	
3f	Quantity of sub grade mineral generation.	Nil	-	
3g	Grade of sub grade mineral generation	No such proposal has been made.	-	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal has been made.	-	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal has been made.	-	
3j	Provision of drilling and blasting in mineral benches	Yes	As proposed drilling and blasting is carried out in the mineral benches.	-
3k	Provision of mining machineries in mineral benches	Yes	Mining machinery is being deployed in the mineral benches for the exploitation of mineral.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No such proposal has been made.	-	As proposed in the approved document, the height of benches is maintained in the Limestone horizon..
3m	Total area covered under excavation/pits	129.88 ha	124.428 ha	
3n	Ore to OB ratio for the pit/mine during the year.	Nil	1:0.04	
3o	Total area put in use under different heads at the end of year	Degraded land=129.88 ha, Occupied by infrastructure =6.78 ha Wsate dump=5.92 ha	Degraded land=124.4288 ha, Occupied by infrastructure=8.17 ha Wsate dump=5.92 ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13=1.4 Million Tonnes, 2013-14=1.4 Million Tonnes, 2014-15=1.4 Million Tonnes, 2015-16=1.4 Million Tonnes and 2016-17=1.4 Million Tonnes	2012-13=0.82 Million Tonnes, 2013-14=0.82 Million Tonnes, 2014-15=0.88 Million Tonnes, 2015-16=0.94 Million Tonnes and 2016-17=0.75 Million Tonnes	
3q	General remarks of inspecting officers on method of mining etc.	Opencast and Fully mechanised method of mining.	As proposed, the Mining operations are being carried out by open cast fully mechanised method of mining.	

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No such proposals have been made.	-	
4b	Location of topsoil, OB and mineral reject dumps	No such proposals have been made.		
4c	Number of dumps within lease area and outside of lease area	2 mineral reject dumps with in the ML area.	There exists two mineral reject dumps with in the ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	These two dumps exists beyond UPL.	
4e	Number of active and alive dumps.	Two	Two	
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.	Yes	Garland drain has been constructed.	

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.	Matured area is proposed for back filling	About 10 ha has been partly back filled.	
5b	Area under backfilling of mined out area	Nil	Nil	About 10 ha mined out area has been partly backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	10 ha extent of mined out area has been partly backfilled and plantation has been done on the same extent.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Matured area has been proposed for reclamation	About 10 ha extent has been partly backfilled and on the same extent afforestation has been done.	

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	The mined out area has been rehabilitated with plantation	
6c	afforestation done (ha).	Yes	Done.	
6d	No. of saplings planted during the year	Nil	500 saplings have been done.	
6e	Cumulative no .of plants	4000 saplings	7295 saplings.	
6f	Any other method of rehabilitation	None	-	
6g	Cost incurred on watch and care during the year	Not furnished	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed	About 10.0 hectare has been partly backfilled and rehabilitated with plantation.	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Yes	Partly backfilled area has been afforested.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	8.0 ha	10.0 ha
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Periodical Environmental monitoring is being done both in core and buffer zone.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Reclamation and periodical monitoring of Environmental parameters.	Reclamation over an extent of 10.0 ha has been done. The Environmental parameters are being periodically monitored.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal has been made.	-	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal has been made.	-	
7c	Different grade of mineral sorted out at mines.	No such proposal has been made.	-	
7d	Any beneficiation process at mines	No such proposal has been made	-	Except crushing and sizeing no beneficiation is done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	100% ROM is meant for consumption.	The entire ROM is consumed. There is no beneficiation except the sizing of ROM.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal has been made	-	
8b	Concurrent use or storage of topsoil	No such proposal has been made.	-	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Mineral rejet has seperatily dumped.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As envisaged, the degraded land over an extent of about 10 ha has been partly restored.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation of worked out pit	Reclamation of worked out pit was partly underatken.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4000 saplings	Around 7,295 saplings have been done over an extent of about 7 ha.
8g	Survival rate	90%	90%
8h	Water sprinkling on roads to control airborne dust	Yes	As proposed periodical water sprinkling is done to control airborn dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is proposed to add aesthitic beauty in and around the ML area.	As proposed Plantation is done to add aesthitic beauty in and around the ML area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR shall be submitted before 10th of every month in respect of preceding month. AR which shall be submitted before 1st July each year for the preceding Financial Year.	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be Submitted	Submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished	Furnished
9d	Scrutiny of Annual return on afforestation	To be furnished.	Furnished.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished	There is no generation of mineral rejects during the year 2016-17.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	Entire ROM is used.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	Rs.259.85
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of fixed assets is Rs.30419776925.
9k	Scrutiny of Annual return on mining machineries	To be submitted.	Information has been furnished.

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 :

(M.Pratap.Reddy)

Indian Bureau of Mines