

**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 : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : **A.JANAKI RAMI REDDY, K.SRINIVAS-Geologist**
Official with
Designation
- (iv) Date of Inspection : 19/02/2020
- (v) Prev.inspection date : 12/07/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LAKSHMIPURAM-II(GONO.131)**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **IRIKIGUDEM**
- 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 : **316.47**
- (c) Period of lease :
- (d) Date of Expiry : **31/03/2030**
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 : M.Manickam
 Coromandel Towers, 93
 Santhome High Road,
 Karpagam Avenue, Raja
 Annamal aipuram, CHENNAI
 CITY TAMIL NADU
 Phone: 044-28521526
 FAX : 044-28520638

Agent : M.Tirupati Rao
 Visshnupuram works, ICL
 Wadapally PO Damarcherla
 mandal NALGONDA TELANGANA
 Phone: 08689228580
 FAX : 0868/9228447

Mining Engineer
 Name : M.LAKSHMANA KRANTHI KUMAR,Full Time
 Qualification : B.Tech (MINING)
 Appointment/ : 14/09/2016
 Termination date

Manager
 Name : A.JANAKI RAMI REDDY
 Qualification : DIPOLMA IN MINING ENGINEERING
 Appointment/ : 02/04/2012
 Termination date

6. Date of approval of Mining : Modif.of approved Mining Plan 17/04/2008
 Plan/Scheme of Mining 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	4 Nos. 120M	4 nos. core bore holes drilled for 126m	-
1b	Exploration over lease area for geological axis 1 or 2	412.19 Ha	Entire potential mineralized area explored under G1 level. (Additional 4.85 Ha. explored n G1 level).	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal approved	NRDCS. Exploratory drilling expenditure Rs.2.23 lakhs. Chemical analysis Rs.27,720/-.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-
1e	Balance reserve as on 01/04/20	-	97.362 Million Tonnes	-
1f	General remarks of inspecting officers on geology, exploration etc	The last deposit is simple, tabular and stratified of palnad sub basins (Navji formations) with no structural disturbances. Entire lease area has been explored in G1 level.	-	-

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-I - third & 4th bench. Pit-II-1st ,2nd and 3rd bench	Carrying as proposed	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal approved for 2018-19 for top soil and OB.	Benches in mineral only developed	No OB & top soil exists within the ML.

2c	Stripping ratio or ore to OB ratio	No such proposal approved for 2018-19	Nil	-
2d	Quantity of topsoil generation in m3	No such proposal approved for 2018-19.	3417 m3	No top soil exists within the ML.
2e	Quantity of overburden generation in m3	No such proposal approved for 2018-19.	Nil	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Benches in Lst have been formed systematically by maintaining proper bench width and height

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two.	Two	-
3b	Quantity of ROM mineral production proposed	14,00,242 Tonnes IN 2018-19	6,18,605 TONNES IN 2018-19	Shortfall is due to less limestone requirement by the plant.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No such approved proposal for 2018-19	Nil	Limestone occurring in the ML is above the threshold value.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-
3f	Quantity of sub grade mineral generation.	No such approved proposal for 2018-19.	Nil	-
3g	Grade of sub grade mineral generation	NA	NA	-

3h	Manual / Mechanised method adopted for segregating from ROM	Entire ROM is usable hence no proposal approved in respect of segregation from ROM.	Nil	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such approved proposal for 2018-19.	Nil	Beneficiation is not required as the available grade is directly consumable.
3j	Provision of drilling and blasting in mineral benches	Atlas Copco (bvb-25-10) : 01 No 115 mm dia, compressor - 445 LFM Burden : 3.5 m Spacing : 5.5 m Depth : 8 m	Atlas Copco (bvb-25-10) : 01 No. - 115 mm dia, Compressor - 445 CFM Burden : 3.5 m Spacing : 5.5 m Depth : 8 m	
3k	Provision of mining machineries in mineral benches	1.Shovel (Back hoe (Kobelco sk380) : 02 Nos. each 3.9m3 2.Ashok Leyland Tipper (Elgi) : 01 Nos : 08 Nos + 3 nos. standby. 3.Mobile Service Van (Elgi) : 01 Nos 4.Explosive Van (8 Tonnes) : 01 Nos	1.Shovel (Back hoe (Kobelco sk380) : 02 Nos. each 3.9m3 2.Ashok Leyland Tipper : 08 Nos. 32 tonners each. 3.Mobile Service Van (Elgi) : 01 Nos 4.Explosive Van (8 Tonnes) : 01 Nos	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8.0 m (max)	8.0 m (max) Maintained. Excavator can dig easily in 8m height bench.	-
3m	Total area covered under excavation/pits	128.02 Ha.	127.135 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	-

3o	Total area put in use under different heads at the end of year	--	127.553 ha. - covered under current Open Cast working 6.00 ha Road working 2.17 ha Infrastructure 5.92 ha. waste dump 11.10 ha afforested area.	--
3p	Production of ROM mineral during the last five year period as applicable	2014-15 : 1.40 million tonnes 2015-16 : 1.40 million tonnes 2016-17 : 1.40 million tonnes 2017-18 : 1.40 million tonnes 2018-19 : 1.40 million tonnes	2014-15 : 0.875801 million tonnes 2015-16 : 0.944626 million tonnes 2016-17 : 0.755312 million tonnes 2017-18 : 0.667264 million tonnes 2018-19 : 0.618605 million tonnes	-
3q	General remarks of inspecting officers on method of mining etc.	Fully mechanized open cast mining method adopted.	-	-

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No such approved proposal for 2018-19.	Nil	-
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	-
4c	Number of dumps within lease area and outside of lease area	Existing 2 nos	Existing 2 nos	Two high siliceous limestone dump exists within the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL on NE side of ML.	-
4e	Number of active and alive dumps.	2 nos	2 nos.	-
4f	Number of dead dumps.	Nil	Nil	-

4g	Number of dumps established.	NA	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No such approved proposal for 2018-19	Nil	Garland drain has been made around the two high siliceous limestone dumps. Dump-1 Garland drain length - 200m Dump-2 Garland drain length - 300m
4i	Length of Retaining wall or garland drain all along dumps	-do-	NA	-
4j	Number of settling ponds	NA	NA	-
4k	Specific comments of inspecting officer on waste dump management	-	-	Two nos high siliceous Limestone dumps are well protected from rain wash off.

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.	0.60 ha mined out area proposed for plantation	Complete mineral extracted from additional 0.60 Ha area in pit-II.	-
5b	Area under backfilling of mined out area	0.60 ha mined out area proposed for plantation	Additional about 0.6 ha. area in pit-II used for developing green belt.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	For green belt development	-
5d	Total area fully reclaimed and rehabilitated	Yes	10 Ha.	-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Top soil has been spreaded in 11.10 ha. of mined out area in Pit-II and afforested.
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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).	Need to submit	Submitted	-
6b	Area available for rehabilitation (ha) .	0.60 Ha.	0.60 Ha	-
6c	afforestation done (ha).	0.60 Ha	0.60 Ha.	-
6d	No. of saplings planted during the year	500 Nos.	500 Nos	--
6e	Cumulative no .of plants	Nil	Nil	-
6f	Any other method of rehabilitation	No approved proposal for 2018-19	Nil	-
6g	Cost incurred on watch and care during the year	Nil	Rs.1,00,000/-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No approved proposal for 2018-19	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No approved proposal for 2018-19	Nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.60 ha in 2018-19	0.60 ha	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No approved proposal for 2018-19	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No approved proposal for 2018-19	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No approved proposal for 2018-19	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No approved proposal for 2018-19	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No approved proposal for 2018-19	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Seasonal environmental monitoring.	It is being carried out.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	11.10 Ha. mined out area has been afforested.	-	-

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No approved proposal for grade wise sorting, whatever ROM will be produced will be despatched to captive plant	5,28,000 tonnes	Entire ROM is Consumable.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such approved proposal as entire ROM is consumable in plant	NA	-
7c	Different grade of mineral sorted out at mines.	No such approved proposal as entire ROM is consumable in plant	NA	-
7d	Any beneficiation process at mines	No such approved proposal as entire ROM is consumable in plant	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is consumable. Beneficiation is not warranted.	-	-

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such approved proposal for 2018-19.	Nil	-
8b	Concurrent use or storage of topsoil	No such approved proposal for 2018-19.	NA	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such approved proposal for 2018-19.	Nil	-

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such approved proposal for 2018-19.	Nil	During 2018-19, there was no approved proposal for backfilling of the mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Rehabilitation proposed in respect of mined out area.	Top soil spreaded in 0.60 Ha. of mined out area and afforested.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	500 nos saplings planted in 0.60 Ha.	Plantation is being carried out on yearly basis within and surrounding the ML.
8g	Survival rate	-	-	-
8h	Water sprinkling on roads to control airborne dust	Through water tanker & permanent water sprinklers	Complied.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is being done to improve the aesthetic beauty in and around the mine.	-	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR to be submitted within the stipulated time	Both the returns submitted in time.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished	Submitted	-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished	OC working - 127.135 Ha	-
9d	Scrutiny of Annual return on afforestation	To be furnished	500 nos. saplings planted in 0.60 Ha.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished	ROM - Nil	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished	Rs.367.30 as submitted by the lessee.	-
9h	Scrutiny of Annual return on fixed assets	To be furnished	Rs.2977286819/-	Common for three mines i.e. Vishnupuram, Laxmipuram & Krishnapuram.
9k	Scrutiny of mining machineries	To be furnished	Mining machinery details 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 :

(S K MUDULI)

Indian Bureau of Mines