

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/GNR/LST-24/HYD

Mine code : 38APR07026

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri A.Janki Rami Reddy & Sri M.Uday Bhaskar Rao
Official with
Designation
- (iv) Date of Inspection : 03/02/2021
- (v) Prev.inspection date : 20/02/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KRISHNAPURAM (GO.469)**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **GUNTUR**
- Village : **PONDUGALA**
- Taluka : **PIDUGURALLA**
- Post office : **PONDUGALA**
- Pin Code : **522414**
- FAX No. : **08689-28447**
- E-mail : **iclvpm@rediffmail.com**
- Phone : **08689-28447**
- (f) **Police Station** : **DACHEPALLY**
- (g) **First opening date** : **09/03/1988**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **THE INDIA CEMENTS LTD, VISHNUPURAM-WADAPALLY(PO)**
MIRYALAGUDA TQ
NALGONDA DIST.
3. (a) **Lease Number** : **APR0205**
- (b) **Lease area** : **652.92**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **03/04/2007**
4. **Mineral worked** : **LIMESTONE** **Main**

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 : CH.SRINIVAS,Full Time
 Qualification : BE (MINING)
 Appointment/ : 01/01/2007
 Termination date

Geologist

Name : K.SRINIVAS,Full Time
 Qualification : M.Sc(Tech)
 Appointment/ : 25/06/2013
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/05/2002
Plan/Scheme of Mining		Modif.approved Mining Scheme	20/09/2004
		Modif.approved Mining Scheme	04/10/2005
		Renewal under rule 22 MCR1960	02/04/2007
		Mining Scheme rule 12 MCDR1988	30/11/2012
		Mining Scheme rule 12 MCDR1988	20/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such proposals approved for 2019-20	22 core bore holes drilled for 1326 m	
1b	Exploration over lease area for geological axis 1 or 2	-	G1. 464.53 ha G2. 187.57 ha G3. Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	During 2019-20 NRDCS (Natural Resources Development Society Ltd.,). Exploratory drilling expenditure 19 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal	88 Ha.	
1e	Balance reserve as on 01/04/20	132.03 mt	As on 1.4.2020 balance Reserves 132.908588 mt	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The deposit falls in Type-1 of UNFC system and it pertains to Narrji group of formation of kurnool group. Pebble formation is found to occur in northern part of the ML. Below the pebble formation Limestone occurs.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit - I SE side I, II, III Bench IV	Pit - I SE side I, II, III Bench IV - Delopment at SW	There is no development except formation of benches.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Except mineral benches, no other benches have been proposed.	Only mineral benches of 9m have been formed.	
2d	Quantity of topsoil generation in m3	No such proposal	Nil	

2e	Quantity of overburden generation in m3	No such proposal	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	Development is in the form of formation of Limestone benches. Four benches in Limestone have been formed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	498245 tonnes produced upto 31.1.2021 during 2020-21.
3b	Quantity of ROM mineral production proposed	14,00,000 Tonnes in 2019-20	10,40,412 T in 2019-20	
3c	Recovery of sailable/usable mineral from ROM production	95%	100%	
3d	Quantity of mineral reject generation	No such proposals approved for 2019-20	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejection proposals exists for 2019-20. The Threshold value for Limestone is CaO=34% (Min) & MgO=5% (Max).	There is no generation of mineral rejects. The Limestone occurring in the ML area is above threshold limits.	
3f	Quantity of sub grade mineral generation.	No such proposals for 2019-20	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Nil
3k	Provision of mining machineries in mineral benches	1.Shovel (Hyundai 320) : 01 No 2.Shovel (Hyundai 510) : 01 No 3. Rock Breaker : 01 No 4.Bharath Benz Tippers : 04 Nos 5. Man Trucks : 07 Nos 6. Volvo Trucks : 03 Nos	1.Shovel (Hyundai 320) : 01 No - 2.1m3. 2.Shovel (Hyundai 510) : 2.9m3 3. Rock Breaker : 01 No - 500 blows/min 4.Bharath Benz Tippers : 04 Nos - 19 m3 5. Volvo Trucks : 03 Nos
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposals on OB as there is no OB. 7m bench height proposals have been given in Limestone.	As proposed 7m max bench height in Limestone is maintained.
3m	Total area covered under excavation/pits	50.41 ha upto 31.03.2022	41.088 ha
3n	Ore to OB ratio for the pit/mine during the year.	No such proposal approved for 2019-20	Nil
3o	Total area put in use under different heads at the end of year		Mining pit - 41.088 Ha. Infrastructure - 1.22 Ha. Plantation - 24.34 Ha.
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 : 0.73 million tonnes 2015-16 : 0.98 million tonnes 2016-17 : 1.06 million tonnes 2017-18 : 0.81 million tonnes 2018-19 : 1.33 million tonnes 2019-20 - 1.04 million tonnes

3q General remarks -
of inspecting
officers on
method of mining
etc.

The mining operations
are being carried out by
opencast fully
mechanised method of
mining by combination of
shovel, tippers & deep
hole drilling & blasting
in Northern block.

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 proposal for dumping of top soil, OB and mineral rejects is made since there is no such generation of material during the year 2019-20	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No such proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	No such proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal	Nil	
4e	Number of active and alive dumps.	No such proposal	Nil	
4f	Number of dead dumps.	No such proposal	Nil	
4g	Number of dumps established.	_do-	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	-do-	Nil	
4i	Length of Retaining wall or garland drain all along dumps	-do-	Nil	

4j	Number of settling ponds	-do-	Nil
4k	Specific comments of inspecting officer on waste dump management	-	There is no waste dump and hence the management of waste dump does not arise.

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 such proposal for 2019-20.	Nil	The mineral is yet to exhaust and backfilling at this stage does not arise.
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)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mineral is yet to be extracted upto UPL, hence backfilling does not arise.	

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 be submitted.	Submitted.	
6b	Area available for rehabilitation (ha) .	No such proposal is approved for 2019-20	Nil	

6c	afforestation done (ha).	-do-	Nil
6d	No. of saplings planted during the year	-do-	Nil
6e	Cumulative no .of plants	-do-	Nil
6f	Any other method of rehabilitation	-do-	Nil
6g	Cost incurred on watch and care during the year	-do-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-do-	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-do-	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	-do-	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-do-	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	-do-	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000 in 1.20 Ha	1000 in 1.20 Ha Planted alongwith safety barrier zone of HT line	300 nos planted in 0.4 Ha. (upto 31.3.2021) during 2020-21. 26704 nos. saplings has been planted in 24.34 Ha Mining Lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-do-	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-do-	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quartely monitoring of Environmental parameters is proposed.	As proposed, monitoring of Environmental prarmeters is done on the quarerly basis both in core and buffer z	Air - 5 core zone location 3 buffer zone Water - 1 core and 1 buffer zone location Noise level - 1 core & 1 buffer zone location.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No progressive closure operations have been proposed during the Plan period 2017-18 to 2021-22.	Afforesation in the safety barrier zone is being carried out. Periodical monitoring of Environmental parameters is being carried out both in Core and buffer zone. The parameters were found with in permissible limits.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	14,00,000 tonnes	10,54,596 tonnes. No grade wise sorting has been done.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such approved proposal was made for 2019-20.	-	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	Except sizing no beneficiation is done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The entire ROM is meant for captive consumption.	The entire ROM is consumed in the Cement Plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal approved for 2019-20.	Nil	
8b	Concurrent use or storage of topsoil	-do-	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-do-	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-do-	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-do-	27704 nos. saplings planted in 24.34 Ha. within ML & 6680 nos. saplings in 8.59 Ha. has been planted outside the ML.	
8g	Survival rate	85%	90%	
8h	Water sprinkling on roads to control airborne dust	Through water tanker & permanent water sprinklers	Periodical water sprinkling is done to arrest airborne dust.	Water sprinkling is done to arrest airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation is proposed in and around the ML area to improve the aesthetic beauty.	The proposed afforestation is done to improve the aesthetic beauty in and around the ML area.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return shall be submitted before 10th of every month in respect of preceding month. Annual return 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 furnished.	Furnished.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information to be furnished. Mining pit 41.088 ha Others - 1.22 ha	Workings is as per Land use pattern.	
9d	Scrutiny of Annual return on afforestation	1000 nos.	1080 nos. saplings.	
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	To be furnished.	As reported by lessee graded ore stock furnished to be 80549 tonne ROM - stock Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	The Ex-mine price furnished to be Rs194.62.	
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of Fixed Assets (in Rs) 3260934497/-	This figure is common for three mines 1) Laxmipuram Limestone Mine 2) Vishnupuram Limestone mine 3) Krishnapuram Lst mine.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Mining machinery details have 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 :

(S K MUDULI)

Indian Bureau of Mines