

**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 : A.Janaki Rami Reddy, DGM (Mines) & M.Uday Bhaskar Rao
Official with
Designation
- (iv) Date of Inspection : 20/02/2020
- (v) Prev.inspection date : 14/07/2018

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 : THE INDIA CEMENTS LTD, VISHNUPURAM-WADAPALLY (PO)
correspondance : 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 Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	09/05/2002
		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	13 Bore holes	13 Core Bore holes for 981 m	
1b	Exploration over lease area for geological axis 1 or 2	-	G1: 376.53 ha G2 : 275.57 ha G4: 58.75 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	During 2018-19 NRDCS (Natural Resources Development Society Limited) Chemical Analysis Expenditure : Rs 2,15,820 Drilling Expenditure :Rs 12,75,300)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such approved proposal	275.57 Ha	Exploration is under progress by NRDCS (Natural Resources Development Society Limited)
1e	Balance reserve as on 01/04/20	133.07 million tonnes	As on 01.04.2019 Balance Reserves : 133.949 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The deposit falls in Type-1 of UNFC system and it pertains to Narji group of formation of Kurnool group (Equivalent of Semri series of Vindhyan system. An extent of about 58 ha is due for exploration and the same is proposed in the year 2020. The rest of the ML area has been explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit - I	Pit - I	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 have been formed.	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	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	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	14,00,000 Tonnes in 2018-19	13,34,667 Tonnes in 2018-19	
3c	Recovery of sailable/usable mineral from ROM production	95%	100%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejection proposals exists for 2018-19. 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 approved proposal for 2018-19	Nil	--
3g	Grade of sub grade mineral generation	-do-	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposals have been made.	Nil	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals have been made.	Nil	-
3j	Provision of drilling and blasting in mineral benches	Atlas Copco: 115 mm dia Burden : 3.5 m Spacing : 5.5 m m Depth : 8.0 m	Atlas Copco: 115 mm dia Burden : 3.5 m Spacing : 5.5 m Depth : 8.0 m	-
3k	Provision of mining machineries in mineral benches	1.Shovel (Hyundai 3200 : 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 3200 : 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	Provided as per approved MMP
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	41.83 ha	38.863 ha	
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	-

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
3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised method of mining is proposed.	The mining operations are being carried out by opencast fully mechanised method of mining is practiced.

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 2017-18.	Nil	-
4b	Location of topsoil, OB and mineral reject dumps	No such proposal is made for 2018-19.	NA	-
4c	Number of dumps within lease area and outside of lease area	No such proposal is made for 2018-19.	Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-do-	NA	-
4e	Number of active and alive dumps.	-do-	Nil	-
4f	Number of dead dumps.	-do-	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-	NA	-
4j	Number of settling ponds	-do-	Nil	-
4k	Specific comments of inspecting officer on waste dump management		There exists 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 is made for 2018-19.	Nil	The mineral is yet to exhaust and backfilling at this stage does not arise.
5b	Area under backfilling of mined out area	-do-	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-do-	Nil	-
5d	Total area fully reclaimed and rehabilitated	-do-	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	The mineral is yet to exhaust and backfilling at this stage does not arise.	-

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Need to be submitted.	The information in the prescribed format has been Submitted vide letter No: ICL/KPM/MM/2019-20/533/01.07.2019.	-
6b	Area available for rehabilitation (ha) .	No such proposal approved for 2018-19.	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	26704 Saplings has been planted in 23.14 ha Mining Lease area
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	-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 zones.	-
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	12,64,000 tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such approved proposal was made for 2018-19.	Nil	-

7c	Different grade of mineral sorted out at mines.	-do-	NA	-
7d	Any beneficiation process at mines .	-do-	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 2018-19.	Nil	-
8b	Concurrent use or storage of topsoil	-do-	NA	-
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)	Existing plantation is 16,984 saplings in 21.04 Ha and proposed sapling in 2018-19 is about 1000.	Existing plantation is 16,984 saplings in 21.04 Ha and proposed sapling in 2018-19 is about 1000.	
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.	-
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	Proposals	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.	Land use pattern details have been furnished.	-
9d	Scrutiny of Annual return on afforestation	To be furnished.	1000 saplings information has been furnished.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished.	information on mineral rejection is furnished to be nil.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	ROM stock furnished to be 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 Rs194.60.	-
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of Fixed Assets (in Rs) 2977286819/-	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 cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(S K MUDULI)

Indian Bureau of Mines