### INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

## MCDR inspection REPORT

## Hyderabad regional office

	Mine :	file No : AP/GNR/LST-2	4/1	HYD	Mine code : 38APR07026
	(i)	Name of the Inspecting Officer and ID No.	:	25 ) SHRI IBRAHIM	SARIF
	(ii)	Designation	:	Sr. Asst. Contrl. Mine	s
	(iii)	Accompaning mine Official with Designation	:	Sri A.Janki Rami Reddy	& Sri M.Uday Bhaskar Rao
	(iv)	Date of Inspection	:	08-DEC-21	
	(v)	Prev.inspection date	:	03-FEB-21	
		PAI	RT-	I : GENERAL INFORMATI	ON
1.	(a)	Mine Name	:	KRISHNAPURAM (GO.469)	
	(b)	Registration NO.	:	IBM/613/2011	
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	:::::::::::::::::::::::::::::::::::::::	A Mechanised Opencast ANDHRA PRADESH GUNTUR PONDUGALA PIDUGURALLA PONDUGALA 522414 08689-28447 iclvpm@rediffmail.com 08689-28447	
	(f)	Police Station	:	DACHEPALLY	
	(g)	First opening date	:	09-MAR-88	
	(h)	Weekly day of rest	:	SUN	
2.		ess for espondance	:	THE INDIA CEMENTS LTD, MIRYALAGUDA TQ NALGONDA DIST.	VISHNUPURAM-WADAPALLY(PO)
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	APR0205 652.92 20 03-APR-07	
4.	Miner	cal worked	:	LIMESTONE	Main

5.	Name and Address of the	e	
	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 :		
	Appointment/ : Termination date		
	Geologist Name : Qualification : Appointment/ : Termination date	M.Sc(Tech)	
6.	Date of approval of Min Plan/Scheme of Mining	Modif.approved Mining Scheme2Modif.approved Mining Scheme0Renewal under rule 22 MCR19600Mining Scheme rule 12 MCDR19883	09-MAY-02 20-SEP-04 04-OCT-05 02-APR-07 30-NOV-12 20-JAN-17

### Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No such proposals approved for 2020-21	7 core bore holes drilled for 510 meters 41 core bore holes drilled for 2988 meters	
lb	Exploration over lease area for geological axis 1 or 2	-	As per the exploration carried out so far area explored under G1 scale is 593.35 ha G2 scale is 58.75 ha	
lc	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	NRDCS (Natural Resources Development Co-operative Society). Expenditure on Exploratory drilling is Rs. 19 lakhs	
ld	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal	Nil	Entire Potential mineralised area has been explored in G1 and G2 scale
le	Balance reserve as on 01/04/20	_	As on 1.1.2022 balance Reserves 553.224 Million Tonnes: 111- 488.057 Million Tonnes & 122- 65.187 Million Tonnes as per recent approved Review of Mining plan	1

1f General remarks of inspecting officers on geology, exploration etc The Limestone deposit within the Mining lease hold area forms a part of Proterozoic Palnadu Basin equivalents of Narji Limestone formation of Kurnool Group. These Carbonate rocks or Narji Limestone are sub divided into several distinct Lithological units. Lithological succession of the area is as follows: Argillaceous Limestone Grey Limestone (Upper) Variegated Siliceous Limestone Grey Limestone (Lower) Green Limestone Purple Shale (Base)

### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	-	SE side I, II,	Pit - I SE side I, II, III Bench IV - Delopment at SW	There is no development except formation of benches.
2b	in topsoil, overburden and	benches, no	Only mineral benches of 6.5 to 8m have been formed.	
2c	Stripping ratio or ore to OB ratio	F.Y 2020-21: No such proposal	Nil	

2d Quantity of F.Y 2020-21: 6148 cum of Top Soil topsoil No such generated during the generation in m3 proposal year 2020-21 Quantity of F.Y 2020-21: Nil 2e No such overburden generation in m3 proposal 2f General remarks -Development is in of inspecting the form of officers on formation of development of Limestone benches. pit w.r.t. type Four benches in of deposit etc Limestone have been formed.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	6,48,351 tonnes produced during 2020-21.
3b	Quantity of ROM mineral production proposed	14,00,000 Tonnes in 2020-21	5,48,351 Tonnes in 2020- 21	
3с	Recovery of sailable/usable mineral from ROM production	95% Recovery	100% Recovery.	
3d	Quantity of mineral reject generation	No such proposals approved for 2020-21	Nil	
3e	Grade of mineral rejects generation and threshold value declared.		There is no generation of mineral rejects during the year 2020-21. The Limestone occuring in the ML area is above threshold limits.	
3f	Quantity of sub grade mineral generation.	No such proposals for 2020-21	No sub grade generated during the year	

3g	Grade of sub grade mineral generation	-	Not Applicable
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 of beneficiation Study for the year 2020-21	No such study done.
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling with High explosives is th practive with following attributes. Mineral/Ore: Dia.: 155 mm Spacing: 4.0 m to 5.0 m Burden: 3.0 m to 3.5 m Depth: 6.0m - 8.0m Explosive: ANFO	carried out as per the proposals

3k Provision of 1.Shovel (Hyundai 320) : 1.Shovel (Hyundai 320) 02 No - 2.1m3. mining machineries in : 02 No -2.Shovel (Hyundai 510) : mineral benches 2.1m3. 01 No -2.9m3 2.Shovel 3.Back Hoe / Rock (Hyundai 510) Breaker : 1 No. 2.79 cum : 01 No -2.9m3 4.Bharath Benz Tippers : 3.Back Hoe / 14 Nos - 13 m3 Rock Breaker : 5. Air Compressor- 1No-1 No. 2.79 cum 12.6 cum 4.Bharath Benz 6. water Tanker- 1 No. Tippers : 14 12000 Liter capacity Nos - 13 m3 5. Air Compressor-1No- 12.6 cum 6. water Tanker- 1 No. 12000 Liter capacity 31 Whether height Fullu Yes 2.2 cum shovel of benches in suitable to maintain mechanised overburden and method of bench height of 7 meters mineral suitable opencast for method of mining is to mining proposed be adopted by in MP/SOM using 2.2 cum capcaity excavators No proposals on OB as there is no OB. 7 m bench height in Limestone is proposed and Boom length of 2.2 cum capacity excavator is suitable to maintain said bench height 3m Total area 50.41 ha upto 45.84 ha 31.03.2022 covered under excavation/pits Ore to OB ratio No such Nil 3n for the pit/mine proposal during the year. approved for 2020 - 21

30	in use under	50.41 Ha. Mineral Storage : Nil	Mining pit - 43.44 Ha. Mineral Storage : 0.5 Ha Infrastructure - 1.76 Ha. Total : 45.7 Ha
3р	Production of ROM mineral during the last five year period as applicable	<pre>million tonnes 2017-18 : 1.40 million tonnes 2018-19 : 1.40 million tonnes 2019-20 : 1.40 million tonnes</pre>	2017-18 : 0.81 million tonnes 2018-19 : 1.33 million tonnes 2019-20 - 1.04 million tonnes 2020-21 - 0.64 million
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		proposal for dumping of top	No OB generated, top soil generated is used o for plantation purpose.	
4b	Location of topsoil, OB and mineral reject dumps	proposal for	Nil	

4c	Number of dumps within lease area and outside of lease area	proposal for	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal	Not applicable
4e	Number of active and alive dumps.	-	Not applicable
4f	Number of dead dumps.	-	Not applicable
4g	Number of dumps established.	No such proposal	not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	-do-	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	-	Not applicable
4j	Number of settling ponds	-do-	NA
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 the F.Y 2020- 21	Nil	The mineral is yet to exhaust and backfilling at this stage does not arise.
5b	Area under backfilling of mined out area	-	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	not applicable	
5d	Total area fully reclaimed and rehabilitated	-	NA	No area is matured for reclamation
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
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before due date.	Submitted in time.	
бb	Area available for rehabilitation (ha) .	No such proposal is approved for 2020-21	Not applicable	
бс	afforestation done (ha).	1.2 Ha	1.2 На	
6d	No. of saplings planted during the year		1000 sapplings planted during the year 2020-21	
бе	Cumulative no .of plants	-	27704 no. of Sapplings planted till 2020-21	
6f	Any other method of rehabilitation	No proposal	Nil	
бд	Cost incurred on watch and care during the year	No proposal	About Rs. 10,000.00	

area

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal for the year 2020-21	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	-	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-	Not applicable	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	-	Not applicable	
бm	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	1000 nos planted in 1.2 Ha. (upto 31.12.2021) during 2021-22. 27704 nos. saplings has been planted in 24.34 Ha Mining Lease area

бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	not applicable
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
бр	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 zone.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	closure	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 produced to be dispatched	6,19,900 tonnes dispatched during the year. No grade wise sorting has been done.	Due to low cement demenad in the market
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	approved	Not applicable	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	

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7d Any No proposal Only Crushing of ROM ore is being carried beneficiation except process at mines Crushing for out. size reduction • of ROM ore 7e General remarks The entire ROM is consumed in the of inspecting Cement Plant. officer on Mineral conservation and beneficiation issues

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposal	About 6148 cum of Top soil is generated and is utilised for plantation	
8b	Concurrent use or storage of topsoil	No proposal	TOp soil generated is used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for the year 2020-21	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	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	Not mentioned	About 93%	
8h	Water sprinkling on roads to control airborne dust	tanker &	Water sprinkling is being done to arrest airborn dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The afforesation is done to improve the aesthitic 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	M.R. up to October 2021 and A.R. up to F.Y. 2020- 21 to be submitted	M.R. up to October 2021 and A.R. up to F.Y. 2020-21 submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer: Shri C H Srinivas Geologist: Shri M Dheivendiran	Manager & Mining Engineer: Shri C H Srinivas Geologist: Shri M Dheivendiran are appointed by Lessee	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	be furnished. Mining pit 41.986 ha Occupied by	Information to be furnished. Mining pit 41.986 ha Occupied by Plant and Other - 1.22 ha	
9d	Scrutiny of Annual return on afforestation	1000 nos.	1000 nos. saplings with 93% survival rate.	

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		As reported by lessee graded ore stock furnished is 49150 Tonne	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Cost of Production & Ex-mine price furnished to be Rs201.73.	The Cost of Production & Ex-mine price furnished to be Rs201.73.	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs.) 3258375164/-	As submitted by Lessee	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	<pre>1.Shovel (Hyundai 320) : 02 No - 2.1m3. 2.Shovel (Hyundai 510) : 01 No -2.9m3 3.Back Hoe / Rock Breaker : 1 No. 2.79 cum 4.Bharath Benz Tippers : 14 Nos - 13 m3 5. Air Compressor- 1No- 12.6 cum 6. water Tanker- 1 No. 12000 Liter capacity</pre>		

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Sho	ow couse position	
Rule NO.	Issued on	Compliance on	n Rule NO	. Issued on Compliance on	

Date :

#### (SHRI IBRAHIM SARIF)

Indian Bureau of Mines