

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/CDP/L.ST-4/HYD

Mine code : 38APR04001

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri M.Venu Gopal Reddy, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 12-MAR-21
- (v) Prev.inspection date : 24-JUL-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : COROMANDAL
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : CUDDAPAH
- Village : CHILAMKUR
- Taluka : YERRAGUNTLA
- Post office : CHILAMKUR
- Pin Code : 516310
- FAX No. : 08563-76155
- E-mail : ccp_mines@indiacements.co.:
- Phone : 08563-276152,276201
- (f) **Police Station** :
- (g) **First opening date** : 01-OCT-82
- (h) **Weekly day of rest** : SUN
2. **Address for** : COROMANDAL LIMESTONE MINE
correspondance M/S THE INDIA CEMENTS LTD
CHILAMKUR(PO) CUDDAPAH DT.
3. (a) **Lease Number** : APR0021
- (b) **Lease area** : 601.96
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 17-NOV-01
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 : Mrs laxmi Aparna Srikumar
 Coromandal tower, 93,
 Santhome High Avenue, raja
 Annamalaipuram, Chennai
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : P MUNI REDDY
 CHILAMKUR 516310 CUDDAPAH
 ANDHRA PRADESH
 Phone:
 FAX :

Mining Engineer

Name : Sri L. SOMASEKHARREDDY, Full Time
 Qualification : B.E, (MINING) IInd CLASS MANAGER "CERTIFIC
 Appointment/ : 04-AUG-11
 Termination date

Manager

Name : N.K.MITRA
 Qualification : D.M.E. & FCMMC
 Appointment/ : 31-AUG-01
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	29-APR-92
Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	24-NOV-98
	:	Existing rule 11 MCDR1988	26-NOV-98
	:	Mining Scheme rule 12 MCDR1988	04-MAR-03
	:	Mining Scheme rule 12 MCDR1988	27-APR-07
	:	Mining Scheme rule 12 MCDR1988	30-NOV-12
	:	Mining Scheme rule 12 MCDR1988	05-DEC-16
	:	MP modif under 17(3) MCR 2016	20-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	28 Bore holes drilled (backlog bore holes completed)	
1b	Exploration over lease area for geological axis 1 or 2	Entire lease area to be explored in G1 scale.	Entire lease area explored under G1 level laterally.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	Natural Resources Development Co-Operative Society Limited (NRDCS).	Expenditure incurred for the value of Rs. 28,71,088/- (For 2017-18 and 2018-19 Exploration)
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	178.066 Million Tonnes.	179 Million Tlnnes (111,122 category reserves only)	
1f	General remarks of inspecting officers on geology, exploration etc		The limestone deposit belongs to Jamalamadugu series of Kurnool group and is known as Narji formation. Entire lease area has been explored in G1 scale.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In South block and in North Block Block-1(Bench-III) -N-173 to N534 &W-600 to W-795 Block-2(Bench-1)-S255 to N12, W670 to W 808 Bench-II -S42 to S 294, W401 to W702	The working were noticed to be within approved proposals	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have separate benches in topsoil and ore.	It was observed that there is one bench in topsoil and 04 benches in ore.	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	There is no OB and waste.
2d	Quantity of topsoil generation in m3	80457	61040	
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		Mechanised open cast method of mining is being carried out by maintaining bench height of 9 meters and width more than 20 meters (working bench).	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pits, one pit each in North and South blocks	production is being carried out in both the pits one in North and South blocks.	
3b	Quantity of ROM mineral production proposed	19,99,940 T of Ore to be produced	14,85,000 T of ore produced during the year.	
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	

3f	Quantity of sub grade mineral generation.	No proposal of generation of sub grade mineral	Nil
3g	Grade of sub grade mineral generation	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method to be adopted	Mechanised method adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Derep hole drilling and blasting is using high explosives to be adopted in mineral benches.	Dilling and blasting is being adopted as per approved proposals.
3k	Provision of mining machineries in mineral benches	It was proposed to have mining machineries in mineral benches Excavator: 2.8 cum & 3.7 cum capacity, Dumpers 35 tonnes/ 40 Tonnes, Blast hole drill- 115 mm dia, Dozer- 212 HP	It was noticed that above machineries are being used in mineral benches

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 meters bench height was proposal for mechanised method of mining using 2.8 cum/ 3.7 cum capacity excavators	Yes bench height of 9m (Max) is suitable using 2.8 cum/ 3.7 cum capacity excavators.	
3m	Total area covered under excavation/pits	126.52	112.8 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	No OB generation is there.
3o	Total area put in use under different heads at the end of year	182.76 Ha	180 32Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-1.89 Million tonnes 2016-17 - 1.90 Million tonnes 2017-18- 2.0 Million tonnes 2018-19- 2.0 Million tonnes 2019-20- 2.0 Million tonnes	2015-16-1.24 Million tonnes 2016-17 -1.50 Million tonnes 2017-18- 1.46 Million tonnes 2018-19- 1.865 Million tonnes 2019-20 - 1.52 Million tonnes	
3q	General remarks of inspecting officers on method of mining etc.		Mechanised open cast method of mining using HEMM with deep hole drilling and blasting technique is adopted.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposal for seperate dumping of topsoil was made.	It was noticed that topsoil was being stacked seperately	

4b	Location of topsoil, OB and mineral reject dumps	The topsoil was proposed to be dumped on Northern and Eastern boundary	Along the Eastern & Southern Boundary in South Block and along Northern and Western side in North Block
4c	Number of dumps within lease area and outside of lease area	Within lease area - 17(within the ML there are 13 existing top soil dumps) and 2 nos newly proposed 2 dumps generated out of slab quarry mining operation (old)	Within lease area -13 old existing top soil dumps (area of 2 dumps area have increased) New top soil dump-2 no 2 dumps generated out of slab quarry mining operation (old)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Top soil dumped outside the ultimate pit limit.
4e	Number of active and alive dumps.	16 top soil dumps (all active)	14 top soil dumps active and 2 slab quarry dumps are non active
4f	Number of dead dumps.	Two	Two
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	A garland drain was proposed around the dumps	Garland drain maintained around the dumps
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		Top Soil dumps are stacked and Garland drain area provided for protection of the same

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.	Ore needs to be extracted fully before start of back filling.	Proposed area is not mined out completely and mineral is yet to be extracted.	
5b	Area under backfilling of mined out area	0.3 Ha	Mineral is yet to be mined out completely.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is yet to be mined out completely.	Partial back filling and Plantation was carried out over an area of 8.74 Ha.

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).	To be submitted yearly	Submitted for the year 2019-20	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	No proposal for afforestation on mined out area	Nil	
6d	No. of saplings planted during the year	500 nos for 2019-20.	1500	

6e	Cumulative no .of plants	-	16600
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No propoasl	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.17 Ha was proposed for backfilling	No backfilling carried as ore is found to exist
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.17 Ha to be back filled	No backfilling done during the year as ore is found to exist at botom level of pit
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	backfilled area to be planted	Partly done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring to be done regularly	Monitoring is being carried out regularly.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Seasonal Environmental Monitoring is being carried out and the parameters are within the permissible limits. Plantation and Dust suppression arrangements is being done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to consume entire ROM in the captive cement plant	Entire ROM ore produced for the year is consumed in cement plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No sorting of minerals is proposed.	Nil	

7d	Any beneficiation process at mines .	No beneficiation process except crushing of ore is done	Only crushing of ore is being carried out	Deposit grade (CaO% in the range of 40% to 49%) which doesn't require any beneficiation.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire ROM produced is being consumed in cement plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil proposed. Utilization for spreading/reclamation (31000 m3) and balance (81467 m3) to store in the the dumps	Partly used for plantation purpose and balance stored at top soil dumps.	
8b	Concurrent use or storage of topsoil	It was proposed to utilise the topsoil generated for reclamation purpose.	Top soil is stacked along Mine lease Boundary for its future utilisation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate Topsoil dumps were proposed to be maintained	Separate dumping of top soil carried out.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for generation of waste/reject/ was made.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	It was proposed to reclaim 0.17 ha during the proposed plan period.	Not done as no area is matured for reclamation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Area is agriculture non irrigated land and no such plantation is reported, however 1000 sapplings are proposed for plantation annually	1500 sapplings have been planted
8g	Survival rate	70%	65%
8h	Water sprinkling on roads to control airborne dust	Water tanker to be deployed to suppression the dust in the mine.	It was noticed during the inspection that a water tanker with a capacity of 10,000 litre was used for the said purpose.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	Plantation is being carried out to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted regularly	Returns are being submitted regularly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : L SOMASEKHAR REDDY Geologist : M NANTA KUMAR	Above persons have been employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) Covered under current (O/C) Workings : 112.30 (ii) Reclaimed/Rehabilitated : 1.900 (iii) Used for waste disposal : 59.910 (iv) Occupied by plant, buildings, residential, welfare buildings & roads : 0.16	i) Covered under current (O/C) Workings : 112.30 (ii) Reclaimed/Rehabilitated : 1.900 (iii) Used for waste disposal : 59.910 (iv) Occupied by plant, buildings, residential, welfare buildings & roads : 0.16
9d	Scrutiny of Annual return on afforestation	1000 sapplings planted	The above plantation observed in the field
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	54300 T of Cement grade Limestone.	The same is observed in the lease
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 224.03 is same for Ex. Mine price and Cost of Production as it is captive mine.	As submitted by Lessee

9h Scrutiny of Rs. 2409924757 As submitted by Lessee
Annual return on
fixed assets

9k Scrutiny of Excavator :5 The above fleet of
Annual return on Drilling machineries have been
mining Machine : 2 deployed for mining
machineries Dumpers : 9 operation.
Dozer : 1
Pump : 1

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines