

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

Mining Plan Modification REPORT

Hyderabad regional office

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

Mine code : 38APR04001

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri M.Venu Gopal Reddy, Sri Ganesh Rao
Official with
Designation
- (iv) Date of Inspection : 01/12/2019
- (v) Prev.inspection date : 17/04/2019

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 : 01/10/1982
- (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 : 17/11/2001
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/ : 04/08/2011
 Termination date

Manager

Name : N.K.MITRA
 Qualification : D.M.E. & FCMMC
 Appointment/ : 31/08/2001
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	29/04/1992
Plan/Scheme of Mining		Existing rule 11 MCDR1988	24/11/1998
		Existing rule 11 MCDR1988	26/11/1998
		Mining Scheme rule 12 MCDR1988	04/03/2003
		Mining Scheme rule 12 MCDR1988	27/04/2007
		Mining Scheme rule 12 MCDR1988	30/11/2012
		Mining Scheme rule 12 MCDR1988	05/12/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for exploratory drilling during 2018-19.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal for exploration during 2018-19.	No exploration carried during 2018-19. Entire lease area explored under G1 & G2 level laterally.	602.137 Ha already explored in G1 and G2 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for exploration during 2018-19.	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for exploration during 2018-19.	Nil	Entire lease area has been explored under G1 & G2 level.
1e	Balance reserve as on 01/04/20	178.066 Million tonnes	179 million tonnes (111,122 category reserves only)	-
1f	General remarks of inspecting officers on geology, exploration etc	-		Entire lease area has not been explored in G1 & G2 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Block and South Block	Development and mining carried out within the proposed area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Both in North and South Block Top Soil - 1 Bench Mineral - 4 Benches	Both in North and South Block Top Soil - 1 Bench Mineral- 4 Benches	-
2c	Stripping ratio or ore to OB ratio	No Proposal	Nil	
2d	Quantity of topsoil generation in m3	112467 Cu.M	57374 Cu.M	

2e	Quantity of overburden generation in m3	Not Proposed	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.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	-
3b	Quantity of ROM mineral production proposed	19,98,320 tonnes	18,65,000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100 %	Entire ROM quantity has been utilised.	-
3d	Quantity of mineral reject generation	Not proposed	Nil	Working area doesn't have any mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	Working area doesn't have any Sub Grade Limestone.
3g	Grade of sub grade mineral generation	Not proposed	Nopt applicable	-
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Nil	100% recovery
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	The avg grade of the deposit is meeting required grade therefore beneficiation is not warranted.

3j	Provision of drilling and blasting in mineral benches	DTH Drilling(115mm dia hole with 5 degree inclination), Deep Hole Blasting with controlled blasting technique by bottom initiation, (Burden-4m, Spacing-6m, Depth-9.9m to maintain bench of 9m)	DTH Drilling(115mm dia hole with 5 degree inclination), Deep Hole Blasting with controlled blasting technique by bottom initiation, (Burden-4m, Spacing-6m, Depth-9.9m to maintain bench of 9m)	-
3k	Provision of mining machineries in mineral benches	115mm dia wagon drill , 3 Excavators(each of 3.700 M3) & 8 Dumpers (Each of 35 tonners)	115mm dia wagon drill, 4 Excavators & 8 Dumpers, Dozer-212 HP-1 No	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral Bench-9m height	Machinery digging height is compatible with the bench height.	-
3m	Total area covered under excavation/pits	126.52 Ha (From 2017-18 to 2021-22)	112.37 Ha	At start of plan period 2017-18 area under excavations is 109.04 Ha
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed	Nil	
3o	Total area put in use under different heads at the end of year	182.76 Ha (From 2017-18 to 2021-22)	163.93Ha	-

3p	Production of ROM mineral during the last five year period as applicable	2018-19 :1998320 tonnes 2017-18 :1999940 tonnes 2016-17 :1900001 tonnes 2015-16 : 1899999 tonnes 2014-15 :1900002 tonnes	2018-19:1865000 tonnes 2017-18 :1465350 tonnes 2016-17 :1504496 tonnes 2015-16 :1247350 tonnes 2014-15 :1349210 tonnes
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3q	General remarks of inspecting officers on method of mining etc.	-	Mechanised open cast method of mining with deep hole drilling and blasting technique is adopted.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil(31000 m3) proposed- in 2018-19 in 1.10 Ha	Separate top soil dumping carried out in 2018-19.	-
4b	Location of topsoil, OB and mineral reject dumps	Top soil Dump- North block- Safety Zone of railway lineN- 1483 to N- 1561, South block- safety zone of seasonal stream- S 166 to S 286 , E1188 to E1326, E 276 to E 373	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)	Out side the ultimate pit limit.	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 dump	-
4f	Number of dead dumps.	No proposal	Nil	-
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for 2018-19.	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	-
4k	Specific comments of inspecting officer on waste dump management			No environmental protection measures for preventing wash off from top soil dump has been undertaken.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	0.62 Ha	Mineral is yet to be mined out completely.	Area is not matured for back filling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	31000 m3 top soil to be used to restore 0.62 Ha. 500 nos of plants to be planted in 0.47 Ha for rehabilitation	Mineral is yet to be mined out completely.	Proposed area is not matured for back filling and restoration/rehabilitation.
5d	Total area fully reclaimed and rehabilitated	0.47 Ha	Mineral is yet to be mined out completely.	-do-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			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).	Submitted	Submitted	
6b	Area available for rehabilitation (ha) .	0.47 Ha for rehabilitation	No area rehabilitated as mineral from the proposed area is not fully mined out.	
6c	afforestation done (ha).	500 nos of plants to be planted in 0.47 Ha for rehabilitation	Nil	No area back filled and reclaimed as mineral is yet to be mined out completely.

6d	No. of saplings planted during the year	500 nos for 2018-19.	Nil	-do-
6e	Cumulative no .of plants	No proposal	Nil	
6f	Any other method of rehabilitation	No proposal for 2018-19.	Nil	
6g	Cost incurred on watch and care during the year	No proposal for 2018-19.	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	31000 m3 top soil to be back filled in 0.62 Ha	Nil	Mineral yet to be mined out completely.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	31000 m3 top soil to be back filled in 0.62 Ha	Nil	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	500 nos of plants to be planted in 0.47 Ha for rehabilitation .	Nil	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for 2018-19	Nil	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal for 2018-19	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	600 nos in 0.72 Ha along lease boundary	1500 nos saplings planted in 1.5 Ha area all along the public road.	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal approved for 2018-19.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal approved for 2018-19.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Sesonal Environmental Monitoring	Carrying out seasonal environmental Monitoring	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Carrying out Seasonal Environmental Monitoring. Environmental parameters qualities are within the permissible limits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No ROM grade wise sorting is proposed. All the ROM produced to be despatched. 1998320 tonnes	1865000 tonnes Limestone despatched during 2018-19	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Nil	
7c	Different grade of mineral sorted out at mines.	Not proposed	NIL	
7d	Any beneficiation process at mines .	Not proposed as beneficiation is not required	Nil	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	No grade wise sorting is being carried out within the lease.
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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	31000m3 top soil to be spreaded for reclamation purpose. 81467 m3 top soil to be Stacked at Safety zone of Railway Line and Seasonal stream.	Top soil is stacked around Mine lease Boundary.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of top soil proposed.	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	31000m3 top soil to be spreaded in 0.62 Ha area for reclamation purpose.	Not done as area is yet to mature.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	31000m3 top soil to be spreaded in 0.62 Ha area for reclamation purpose.	Not done as mineral is not completely mined out.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos of plants to be planted in 0.47 Ha for rehabilitation . Apart from that 600 nos to be planted along lease boundary in 0.72 Ha.	1500 nos plants planted in 1.5 Ha area all along public road (SW of ML area) in 3 lines in a area of 300m X 30m.	
8h	Water sprinkling on roads to control airborne dust	By water tanker & Mechanical Sprinkler	By water tanker & Mechanical Sprinkler	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Scanty bushes found to occur in the barren land around the Lease. Agriculture land also found to occur around the lease. Plantation growth and survival within the lease is good. 2 nos slab quarry cuttings dump found in the the Eastern Part of North Block.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitting regularly	2018-19 annual return submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	L SOMASEKHAR REDDY-ME, M NANTA KUMAR-MG, M VENUGOPAL REDDY-Manager	L SOMASEKHAR REDDY-ME, M NANTA KUMAR-MG, M VENUGOPAL REDDY-Manager	Both the Mining Engineer, Geologist appointed as per rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted	Submitted.	The category wise area utilization details will be verified during processing of mining plan.
9d	Scrutiny of Annual return on afforestation	1500 No	1500 No	
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	ROM- Nil	ROM- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be submitted	Sale Value-Mines allotted for captive purpose, Cost/tonne-Rs 216.80	
9h	Scrutiny of Annual return on fixed assets	To be submitted	Rs 242.386 Crores	
9k	Scrutiny of Annual return on mining machineries	115mm dia wagon drill-1no, 4 Excavators (3.7 m3) & 8 Dumpers (35 tonners) ,Back Hoe(2.8 m3)-1no,Dozer-212 HP-1 No	115mm dia wagon drill-1no, 4 Excavators & 8 Dumpers,Dozer-212 HP-1 No	

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