

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri M Venugopal Reddy, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 14/10/2016
- (v) Prev.inspection date : 12/02/2016

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 :
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 : R.K.DAS
 DHUN BLDG 827,ANNASALAI
 CHENNAI CITY TAMIL NADU
 Phone: 04428521526
 FAX : 04428520638

Agent : R.NAGARAJU
 M/S INDIA CEMENTS LIMITED
 CHILAMKUR-516310 KADAPA
 DISTRICT CUDDAPAH ANDHRA
 PRADESH
 Phone: 08563-276174
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	None
1b	Exploration over lease area for geological axis 1 or 2	A total of 60 coreholes were proposed to be made during the plan period.	It was noticed that 60 coreboreholes were made till 2015-16.	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	It was proposed to outsource the exploration.	It was reported that a agency named JP Koredrilling carried out the exploration wherein the lessee has incurred and expenditure of 12,73,382/-	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total area has been proposed to be explored.expl ored	Total lease area has been explored under G1 & G2 axis.	None
1e	Balance reserve as on 01/04/20	At the start of the plan period a total of 78 Million tonnes was under (111)	As on 1.4.2016 the reserves are around 73 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work in between gridlines N1800 to N2000,E-600-800 and N200-400,E400-600.	The working were noticed to be within the proposed gridlines.	None

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.	None
2c	Stripping ratio or ore to OB ratio	1:14	1:14	None
2d	Quantity of topsoil generation in m3	It was proposed to generate 85486 Cum of topsoil	Actual achievement was reported to be 5514 Cu.m	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to have one pit each in North and South blocks	It was observed that one pit and North and one in South block were noticed.	None
3b	Quantity of ROM mineral production proposed	It was proposed to produce 1.89 Million tonnes	Actual production was 1.27 Million tonnes	The less production was due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	None
3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None

3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to carry out Mechanised operations	It was noticed that the entire operations are mechanised.	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	There was proposal for drilling and blasting in mineral benches.	The same noticed during the inspection.	None
3k	Provision of mining machineries in mineral benches	It was proposed to have mining machineries in mineral benches	It was noticed that 3 excavators and 8 dumpers were used in the benches	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The bench height proposal were made for mechanised method of mining	It was noticed that around 9m benches were maintained in the pit.	None
3m	Total area covered under excavation/pits	108.56 ha	106.2 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	14:1	192:1	None
3o	Total area put in use under different heads at the end of year	153.49 ha	151.13 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2011-12-1.96 Million tonnes 2012-13-1.91 Million tonnes 2013-14-1.88 Million tonnes 2014-15-1.90 Million tonnes 2015-16-1.91 Million tonnes	2011-12-1.08 Million tonnes 2012-13-1.1 Million tonnes 2013-14-1.25 Million tonnes 2014-15-1.26 Million tonnes 2015-16-1.22 Million tonnes	The production is within the proposed range.

3q	General remarks of inspecting officers on method of mining etc.	None	None	None
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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)	proposal for seperate dumping of topsoil was made.	It was noticed that topsoil was being stacjed seperately	None
4b	Location of topsoil, OB and mineral reject dumps	The topsoil was proposed to be dumped on Northern and Eastern boundary	The same was noticed duirng the inspection	None
4c	Number of dumps within lease area and outside of lease area	About 03 dups were proposed for 2015-16	It was noticed that along with these 03 topsoil dumps there are about 10 more small old topsoil dumps in the lease.	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dumps were proposed around the Northern and Eastern boundary	The same was noticed.	None
4e	Number of active and alive dumps.	02	02	None
4f	Number of dead dumps.	11	11	NOne
4g	Number of dumps established.	09	09	None
4h	Whether Retaining wall or garland drain all along dumps are there.	A garland drain was proposed around the dumps	It was noticed that graland drains have been made around these dumps.	None
4i	Length of Retaining wall or garland drain all along dumps	4968x1.5x0.5m	4968x1.5x0.5m	None
4j	Number of settling ponds	None	None	None

4k	Specific comments of inspecting officer on waste dump management	None	None	None
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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.	It was proposed to backfill some area duirng 2015-16.under gridlines N600-1000 and E400-600	It was noticed that backfilling has been done partly within the proposed gridlines.	None
5b	Area under backfilling of mined out area	0.6 ha	0.037 ha	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It was proposed to reclaim the area by using topsoil generated	It was noticed that the topsoil generated was used for backfilling and plantation.	None
5d	Total area fully reclaimed and rehabilitated	3.22 ha	2.53 ha	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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).	Yes	The report submitted was in order.	None
6b	Area available for rehabilitation (ha) .	22.9 ha	17.43 ha	None
6c	afforestation done (ha).	2.53 ha	2.53 ha	None

6d	No. of saplings planted during the year	1500	1500	None
6e	Cumulative no .of plants	4500	4500	None
6f	Any other method of rehabilitation	water reservoir	water reservoir	None
6g	Cost incurred on watch and care during the year	14.9 lakhs	14.9 lakhs	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	by backfilling- 0.6 ha/afforestation-1.0 ha/water reservoir 14.9 ha	by backfilling 0.037 ha/afforestation 1.0 ha/water reservoir-14.9	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Prposed to afforest 2 ha	Actual achievemnt was 1.75 ha	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	complied by carrying out quarterly monitoring	Yes carried out quarterly monitoring.All the parameters are within the limits	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

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 by the captive cement plant	The same was noticed.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to generate topsoil and stack seperately.	It was noticed that the topsoil generated was stacked seperately in the proposed areas.	None
8b	Concurrent use or storage of topsoil	It was proposed to utilise the topsoil generated to be used for reclamation.	It was noticed that the topsoil generated is being used for reclamation.	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate Topsoil dumps were proposed	The same were observed in the lease.	None
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.	No generation of the same was noticed.	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	It was proposed to reclaim 3.2 ha duirng the proposed plan period.	It was noticed that about 1.90 ha was reclaimed and 0.60 ha duirng 2015-16.	None

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	About 4500 plantations are there and it was proposed to plant 1500 plants more during 2015-16.	It was noticed that 1500 plants have been planted during the year 2015-16.	None
8g	Survival rate	70%	65%	None
8h	Water sprinkling on roads to control airborne dust	it was proposed to use a water tanker for sprinkling water for suppression of 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.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The production for 2015-16 was reported as 1272000 tonnes and the ex-mine price was reported as Rs.205/- Total days worked are 304.	The details given above are verified in AR and found to be in order.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Somasekhar Reddy was appointed as Mining Engineer.	The was observed during the inspection	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The total area under workings is 47.20 ha, undr waste disposal is 42.020 ha and reclaimed area was 1.9 ha	The above mentioned details were observed during the inspection and found to be in order.	None

9d	Scrutiny of Annual return on afforestation	It was reported in the AR that about 1500 saplings with a survival rate of 65% were planted. Outside lease area about 4000 saplings were planted.	The same were observed during the inspection	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	It was reported that a total of 1272000 tonnes of ROM was produced.	The same was observed during the inspection and from the records and found to be in order and within the proposed production.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Mine is a captive mine and the ex-mine price was reported as Rs.205/-	--	--
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets was reported as Rs.469706870/-	The same could not be verified.	None
9k	Scrutiny of Annual return on mining machineries	It was reported in the Annual return that two aircompressor, two wagon drill of 115mm DIA, One dozer, eleven dumpers, 04 Hydraulic shovels, one water tanker, one explosive van and one electric pump were reported.	Some of the above machinery could be noticed during the inspection.	None

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 :

(A.V.Ramesh Kumar)

Indian Bureau of Mines