

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/CBT/LST-2.MDS

Mine code : 38TMN02005

- (i) Name of the Inspecting : **N005**) **ANUPAM NANDI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18/08/2015
- (v) Prev.inspection date : 17/09/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MADUKKARAI(G.O.674)**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : COIMBATORE
- Village : MADUKKARAI
- Taluka : COIMBATORE
- Post office : MADUKKARAI
- Pin Code :
- FAX No. : 0422-622286
- E-mail : suresh.wandhare@acclimited
- Phone : 0422-622525
- (f) **Police Station** :
- (g) **First opening date** : 01/01/1934
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S A.C.C LTD,
MADUKKARAI CEMENTS LTD,
MADUKKARAI-641105
3. (a) **Lease Number** : TMN00003
- (b) **Lease area** : 29.72
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 30/01/1982
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : ACC LIMITED
 MADUKKARAI CEMENT WORKS
 MADUKKARAI COIMBATORE
 TAMIL NADU
 Phone:
 FAX :

Owner : KULDIP K KAURA, ACC LTD
 Cement House, 121, Maharshi
 Road, Mumbai GREATER
 BOMBAY MAHARASHTRA
 Phone: 0422-2622286
 FAX :

Agent : A K SHRIVASTAVA, DIRECTOR
 ACC Ltd., Madukkarai Cement
 Works, MADUKARAI COIMBATORE
 TAMIL NADU
 Phone: 0422-2912202
 FAX : 0422-2622286

Mining Engineer

Name : D.ARAVIND KUMAR, Full Time
 Qualification : BE MIN ENG
 Appointment/ :
 Termination date

Geologist

Name : J.SUSEENTHAN, Full Time
 Qualification : MSc GEOLOGY
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/04/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/12/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	11	10	Complied.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	ACC	ACC	Our own exploration cell done the exploration
1e	Balance reserve as on 01/04/20	7.4 MT	7.4 MT	Nil
1f	General remarks of inspecting officers on geology, exploration etc	As per proposal	As per proposal	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RW 05 - RW 09, RL 392-379 RE 02 to RE 04, RL 392-383 RE A to RE I, RL 390-383 RL 383-374 RL 374-365 RL 360-353 RL 353-346	RW 05 - RW 09, RL 392-379 RE 02 to RE 04, RL 392-383 RE A to RE I, RL 390-383 RL 383-374 RL 374-365 RL 360-353 RL 353-346	Complied.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	Nil

2c	Stripping ratio or ore to OB ratio	1 : 0.55	1 : 1.00	High ratio due to high irregular intrusion of calc granulite and pegmatite
2d	Quantity of topsoil generation in m3	NA	NA	Nil
2e	Quantity of overburden generation in m3	134362 MT	483329 MT	High due to high irregular intrusion of calc granulite and pegmatite
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As per proposal	Proposal is being followed.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	Complied

3b	Quantity of ROM mineral production proposed	243720 MT	480808 MT	Production is higher than the planned production due to the following reasons. The mine is captive mine supplying limestone to captive cement plant and production of limestone depends upon the plant requirement, market requirement and operation of other captive mines attached to this plant. Supply from our walayar limestone mine (GO 220) was affected for four months due to truckers strike. During this period, maximum quantity of limestone taken from this mine to meet the plant requirement. Henc
3d	Quantity of mineral reject generation	NA	NA	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	NA	NA	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling with nonel blasting	Deep hole drilling with nonel blasting	complied
3k	Provision of mining machineries in mineral benches	Fully Mechanized Mine	Fully Mechanized Mine	complied
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height is maintained as 9-10mtrs	Bench height is maintained as 9-10mtrs	complied
3m	Total area covered under excavation/pits	66.42ha	66.42ha	complied
3n	Ore to OB ratio for the pit/mine during the year.	1:0.67	1:1	High due to high irregular intrusion of calc granulite and pegmatite
3o	Total area put in use under different heads at the end of year	QUARRIED AREA - 66.42 HA INFRASTRUCTURE & ROADS - 4.02 HA WASTE DUMPS - 17.48 HA	1:1 QUARRIED AREA - 66.42 HA INFRASTRUCTURE & ROADS - 4.02 HA WASTE DUMPS - 17.48 HA	Complied
3p	Production of ROM mineral during the last five year period as applicable	Year Mineral Proposed Actual 2010-11 381690 384749 2011-12 400725 198683 2012-13 448088 254934 2013-14 279105 473111 2014-15 243720 480808 Total 1753328 1792285		

3q	General remarks of inspecting officers on method of mining etc.	Exploitation as per proposal.	Deviation is because of Walayar mines	Generally complied
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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)	No top soil is present	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil is present	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	4(within lease area)	4(within lease area)	Complied
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Over non mineralized area	Dumps are located at non mineralized area	Complied
4e	Number of active and alive dumps.	01	01	Complied
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	03	03	Complied
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed.	Garland Drains provided all along the dumps	Complied
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	As per proposal	Proposal is being followed.	Nil

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.	Proposed backfilling over areas where mineral is exhausted completely.	Mineral is extracted completely before starting backfilling	Wherever insitu condition
5b	Area under backfilling of mined out area	Wherever feasible for the part of	0.4habackfilled & planted.	complied
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil is available in the present mining area	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	0.4ha	Part area is reclaimed and rehabilitated by plantation.	Complied.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per proposal	Proposal is followed.	Complied.

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).	As per proposal	Yes	Complied
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.5ha(2014-15)	0.4ha(2014-15)	Complied
6d	No. of saplings planted during the year	2000	1900	Complied.
6e	Cumulative no .of plants	Nil	Nil	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL

6g	Cost incurred on watch and care during the year	168000	180000	COMPLIED
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	AS PER PROPOSAL	150*25*15 350*100*20	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.5ha(2014-15)	0.4 ha	COMPLIED
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.4 ha(2014-2015)	0.4 ha	COMPLIED
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	BACKFILLING	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of air, water & noise data	100 % COMPLIED	COMPLIED
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	As per proposal.	proposal IC FGOLLOWED.	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	243720 MT	480808 MT	Our mine is captive mine supplying limestone to our cement plant and production of limestone depends upon the plant requirement, market requirement and operation of other captive mines attached to this plant. Supply from our walayar limestone mine (GO 220) was affected for four months due to truckers strike. During this period, maximum quantity of limestone taken from this mine to meet the plant requirement. Hence quantity is higher than the planned quantity. But , total cumulative production fr

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	NA
7c	Different grade of mineral sorted out at mines.	As per proposal	proposal IS FOLLOWED	COMPLIED
7d	Any beneficiation process at mines .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	As per proposal	proposal IS FOLLOWED.	COMPLIED

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	NIL
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Wherever exhausted pit area available with nearby ob available	Used for backfilling	COMPLIED

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Part of the exhausted pit area wherever feasible, was proposed for reclamation & plantation	0.4ha reclaimed by backfilling & plantation	COMPLIED
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal of 2000 saplings	1900saplings are planted	COMPLIED
8g	Survival rate	NIL	80%	Improved survival
8h	Water sprinkling on roads to control airborne dust	Dust suppression proposed	YES	COMPLIED
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As per proposal	Proposal is being followed	COMPLIED

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to July 2015 A.R. submitted up to year 2014-2015	M.R. Submitted up to July 2015 A.R. submitted up to year 2014-2015	COMPLIED
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer and Geologist appointed.	Mining engineer and Geologist appointed. Complied	Complied
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	All information was furnished.	Information was found correct.	COMPLIED

9d	Scrutiny of Annual return on afforestation	All information was furnished.	Information was found correct.	COMPLIED
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	All information was furnished.	Information was found correct.	COMPLIED
9f	Scrutiny of Annual return on ROM stock and/or graded ore	All information was furnished.	Information was found correct.	COMPLIED
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	All information was furnished.	Information was found correct.	COMPLIED
9h	Scrutiny of Annual return on fixed assets	All information was furnished.	Information was found correct.	COMPLIED
9k	Scrutiny of Annual return on mining machineries	All information was furnished. Information was found correct.	Information was found correct.	COMPLIED

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 :
(ANUPAM NANDI)

Indian Bureau of Mines