

**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 : 38TMN02007

- (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 :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MADUKKARAI(G.O.725)**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : COIMBATORE
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 0422-2622286
- E-mail : suresh.wandhare@acclimited
- Phone : 0422-2622525
- (f) **Police Station** : MADUKARAI
- (g) **First opening date** : 01/01/1934
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S A.C.C LTD
MADUKKARAI CEMENT WORKS,
MADUKKARAI-641105
3. (a) **Lease Number** : TMN00005
- (b) **Lease area** : 14.29
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 27/11/1999
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

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	NIL	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	7495 Ts	NIL	Marginal left out reserve.
1f	General remarks of inspecting officers on geology, exploration etc	As per proposal.	Proposal is being followed.	NIL.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 16- ML 17 RL 376-370	ML 16- ML 17 RL 376-370	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0.66	1 : 1.57	Ratio is slightly high because of insitu condition.
2d	Quantity of topsoil generation in m3	NA	NA	NIL
2e	Quantity of overburden generation in m3	1183 MT	6118 MT	Because of localized high ob.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As per proposal	Proposal was followed.	NIL
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposal from existing pit	from existing pit	NIL
3b	Quantity of ROM mineral production proposed	1785 MT	3885 MT	Low levels of production
3c	Recovery of sailable/usable mineral from ROM production	1785 MT	3885 MT	Low levels of production
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling with nonel blasting	Deep hole drilling with nonel blasting	NIL

3k	Provision of mining machineries in mineral benches	Fully Mechanised Mine	Fully Mechanised Mine	NIL
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	NIL
3m	Total area covered under excavation/pits	0.41ha	0.41ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.66	1 : 1.57	NIL
3o	Total area put in use under different heads at the end of year	QUARRIED AREA - 0.41 HA INFRASTRUCTURE & ROADS - 0.38 HA WASTE DUMPS - 0.15 HA	QUARRIED AREA - 0.41 HA INFRASTRUCTURE & ROADS - 0.38 HA WASTE DUMPS - 0.15 HA	NIL
3p	Production of ROM mineral during the last five year period as applicable	Year Mineral Proposed Actual 2010-11 73125 34493 2011-12 41400 36663 2012-13 27158 17693 2013-14 2475 6979 2014-15 1785 3885	Year Mineral Proposed Actual 2010-11 73125 34493 2011-12 41400 36663 2012-13 27158 17693 2013-14 2475 6979 2014-15 1785 3885	NIL
3q	General remarks of inspecting officers on method of mining etc.	As per proposal	Proposal is being followed	NIL

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	NA	NA

4b	Location of topsoil, OB and mineral reject dumps	No top soil is present	NA	NA
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Non mineralized area proposed for the dumps	Dumps are located at non mineralized area	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland Drains provided all along the dumps	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	As per proposals	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.	NIL	Mineral is extracted completely before starting backfilling	Area backfilled after complete extraction.
5b	Area under backfilling of mined out area	0.02ha	0.02ha(2014-15)	As per proposal

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	As per proposal	Part area is reclaimed and rehabilitated	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per proposal	Proposal is being followed	NIL

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	NIL	YES	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.1ha(2014-15)	0.2ha(2014-15)	More number of saplings planted than proposed
6d	No. of saplings planted during the year	200	500	More number of saplings planted than proposed
6e	Cumulative no .of plants	200(2014-15)	2000(2014-15)	More number of saplings planted than proposed.
6f	Any other method of rehabilitation	NA	NA	NA
6g	Cost incurred on watch and care during the year	28000	50000	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	NIL	NIL	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	0.1ha(2014-15)	0.2ha	Afforestation done over backfilled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.1ha(2014-2015)	0.2 HA BACKFILLING	NIL
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	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	As proposed for air water and noise monitoring	100% Complied	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	As per proposal	Proposal is being followed.	NIL
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1785 MT	3885 MT	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
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 being followed	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	NA
8b	Concurrent use or storage of topsoil	NA	NA	NA

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	NA
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	As per proposal	Used for backfilling	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As proposal	Proposal is being followed.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200	500	Plantation is more than proposed.
8g	Survival rate	NIL	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Regular watering proposed.	YES	Proposal is being followed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As per proposal	All the proposal is being followed.	NIL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	NIL	M.R. Submitted upto july 2015 A.R. submitted upto 2014-2015	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	All information was submitted.	Information was found correct.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	All information was submitted.	Information was found correct.	NIL
9d	Scrutiny of Annual return on afforestation	All information was submitted.	Information was found correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	All information was submitted.	Information was found correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	All information was submitted.	Information was found correct.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	All information was submitted.	Information was found correct.	NIL
9h	Scrutiny of Annual return on fixed assets	All information was submitted. I	nformation was found correct.	NIL
9k	Scrutiny of Annual return on mining machineries	All information was submitted.	Information was found correct.	NIL

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