

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

MCDR INSPECTION REPORT

Chennai regional office

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

Mine code : 38TMN02006

- (i) Name of the Inspecting : **N005**) **ANUPAM NANDI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SRINIWASAN VIJAY,M.E; DIVYAKANT DAVE,GEOLOGIST**
Official with
Designation
- (iv) Date of Inspection : 19/08/2015
- (v) Prev.inspection date : 28/07/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MADUKKARAI(G.O.641)**
- (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, 0422-2265207
- (f) Police Station : MADUKARAI
- (g) First opening date : 01/01/1934
- (h) Weekly day of rest : SUN
2. Address for : MADUKARI CEMENT WORKS
correspondance : MADUKARIPOST 641105
COIMBATURE
3. (a) Lease Number : TMN0004
(b) Lease area : 165.55
(c) Period of lease : 5
(d) Date of Expiry : 30/08/1987
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 : SRINIWASAN VIJAY, Full Time
Qualification : B.E. (Mining)
Appointment/
Termination date :

Geologist

Name : Divyakant Dave, Full Time
Qualification : M.Tech- Geology (5 years)
Appointment/
Termination date :

Manager

Name : SURESH WANDHARE
Qualification : B.E. (Mining), FCC
Appointment/
Termination date :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22/06/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	22/06/2003
	:	Mining Scheme rule 12 MCDR1988	22/06/2003
	:	Mining Scheme rule 12 MCDR1988	17/04/2008
	:	Mining Scheme rule 12 MCDR1988	02/12/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	NIL	na
1b	Exploration over lease area for geological axis 1 or 2	NA	NA	NA
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	NA
1e	Balance reserve as on 01/04/20	1.613 MT	1.613 MT	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Area fully explored.	Nil	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RW 09 - RW 12, RL 388-379 RW 09 - RW 13, RL 379-370 RW 07 - RW 09, RL 379-370 RW 04 - RW 07, RL 370	RW 09 - RW 12, RL 388-379 RW 09 - RW 13, RL 379-370 RW 07 - RW 09, RL 379-370 RW 04 - RW 07, RL 370	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	NA
2c	Stripping ratio or ore to OB ratio	1 : 0.84	1 : 0.96	Nil
2d	Quantity of topsoil generation in m3	NA	NA	Nil
2e	Quantity of overburden generation in m3	140261 MT	122362 MT	Within proposal

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As per proposal	All proposals are followed	Nil
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Nil	Existing pit only	Nil
3b	Quantity of ROM mineral production proposed	166005 MT	127443 MT	Nil
3c	Recovery of sailable/usable mineral from ROM production	166005 MT	127443 MT	Nil
3d	Quantity of mineral reject generation	NA	NA	NA
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NA
3f	Quantity of sub grade mineral generation.	NA	NA	NA
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NA
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling with nonel blasting	Deep hole drilling with nonel blasting	NA

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	9.17 Ha	9.17 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.84	1 : 0.96	Nil
3o	Total area put in use under different heads at the end of year	QUARRIED AREA - 9.17 HA INFRASTRUCTURE & ROADS - 0.10 HA WASTE DUMPS - 3.25 HA	QUARRIED AREA - 9.17 HA INFRASTRUCTURE & ROADS 0.10 HA WASTE DUMPS - 3.25 HA	il
3p	Production of ROM mineral during the last five year period as applicable	Year Mineral Proposed Actual 2010-11 231143 112066 2011-12 243608 252384 2012-13 210875 31349 2013-14 159845 102624 2014-15 166005 127443 Total 1011476 625866	Nil	Nil
3q	General remarks of inspecting officers on method of mining etc.	As proposed	Proposal is being followed	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil is present	NA	Nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil is present	NA	Nil
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)	Nil	Dumps are located at non mineralized area	il
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	Garland Drains provided all along the dumps	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	NA
4k	Specific comments of inspecting officer on waste dump management	As per proposal	As per proposal	NA

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	Backfilling made over complete extraction of mineral.

5b	Area under backfilling of mined out area	0.2HA	0.2HA	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	NA
5d	Total area fully reclaimed and rehabilitated	Nil	Part area is reclaimed and rehabilitated	NA
5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per proposal	Proposal was followed	Nil

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).	NA	Yes	Nil
6b	Area available for rehabilitation (ha) .	NA	NA	Nil
6c	afforestation done (ha).	NA	NA	Nil
6d	No. of saplings planted during the year	NA	NA	Nil
6e	Cumulative no .of plants	NA	NA	Nil
6f	Any other method of rehabilitation	NA	NA	Nil
6g	Cost incurred on watch and care during the year	NA	NA	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	150*25*15 350*100*20	Backfilling made over area completely extracted.

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	0.2HA	0.2HA	Nil
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	0.2HA	0.2HA	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	Back filling	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	100% Complied	Proposal complied

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	As per proposal	As per proposal	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	166005 MT	127443 MT	As per proposal
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	NA
7c	Different grade of mineral sorted out at mines.	NA	NA	NA
7d	Any beneficiation process at mines	NA	NA	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	All proposals	Proposals are followed	Nil

Environment:

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

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Used for backfilling	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Done where mineral fully extracted.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500Nos	300 Nos	Nil
8g	Survival rate	80 %	80 %	NIL
8h	Water sprinkling on roads to control airborne dust	proposed	YES	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As per proposals	All proposals are followed	NIL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto July 2015 A.R. submitted upto 2014-2015	Information was found correct.	complied

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