

**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 : 38TMN02005

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr. Pradeep Sahoo (DGM-Mining) & Mr. RajMohan (Manage
Official with
Designation
- (iv) Date of Inspection : 07/01/2020
- (v) Prev.inspection date : 18/03/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MADUKKARAI(G.O.674)**
- (b) **Registration NO.** : **IBM/256/2011**
- (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** : M/S A.C.C LTD,
correspondance MADUKKARAI CEMENTS LTD,
MADUKKARAI-641105
3. (a) **Lease Number** : TMN0003
- (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 : VIJAY SRINIVASAN, Full Time
Qualification : B.E MINING
Appointment/ : 01/09/2018
Termination date

Geologist

Name : VENKATESWARLU. S.T.K, Full Time
Qualification : M.Sc Geology
Appointment/ : 26/03/2015
Termination date

Manager

Name : ANAND KUMAR R.S
Qualification : B.E mining
Appointment/ : 06/02/2017
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
	:	MP modif under 17(3) MCR 2016	20/06/2016
	:	MP modif under 17(3) MCR 2016	22/03/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine is fully explored.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine is fully explored under G1 Level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Mine is fully explored.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	NIL
1e	Balance reserve as on 01/04/20	8.08 Mio tonnes	8.08 Mio tonnes	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	The geology, exploration is found to be satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RW &RE RW13-17 RL402-393 RE H RE J RL 399-370 RE H-RE 04 RL 454-444RE H- RE04 RL 444- 435 RE H-04 RL 435-426 REH RE J 417- 397	RW &RE RE H RE J RL 399-370 RE H-04 RL 435-426	Workings are with as per proposal of MP
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No top soil bench development.
2c	Stripping ratio or ore to OB ratio	1:1.72	1:1.26	NIL

2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generated
2e	Quantity of overburden generation in m3	283880m3	125746 m3	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	-----	Development of pit found systematic.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	NIL
3b	Quantity of ROM mineral production proposed	1303224 tonnes(ROM) Limestone-479970 tonn Waster rock-823254 tonn	653696 (ROM) tonnes Limestone-289030 tonn Waster rock-364666 tonn	Production is in within the limit
3c	Recovery of sailable/usable mineral from ROM production	479970 tonn	289030 tonn	Production is in within the limit
3d	Quantity of mineral reject generation	823254 Tonnes	364666 Tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	<35 Cao	<35 Cao	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub grade Mineral available
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade Mineral available
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	As per the proposal

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No analysis carried out due to No sub grade Mineral
3j	Provision of drilling and blasting in mineral benches	YES	Provided	NIL
3k	Provision of mining machineries in mineral benches	Yes	provided	Back hoe-3 Dumber-5 Blast Host drill-1 Explosive van-1 Water Tanker-1
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Bench heights are maintained as per the proposal approved	NIL
3m	Total area covered under excavation/pits	67.13 Ha	67.13 Ha	no deviation
3n	Ore to OB ratio for the pit/mine during the year.	1:1.72	1:1.26	Ore to OB ratio is slightly varying
3o	Total area put in use under different heads at the end of year	126.91 Ha	126.91 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14-279105 2014-15-243720 2015-16-320675 2016-17-481100 2017-18-476500 2018-19-167000	2013-14- 473111 2014-15- 480808 2015-16- 320651 2016-17-345358 2017-18-342272 2018-19-289030	nil
3q	General remarks of inspecting officers on method of mining etc.	----	---	Method of mining is found satisfactory

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)	381	RL 372- S-800 to E-200	RL 372-381 S-800 to E-200	as per the proposal
4b	Location of topsoil, OB and mineral reject dumps	381	RL 372- S-800 to E-200	RL 372-381 S-600 to E-200	OB & mineral reject dumps
4c	Number of dumps within lease area and outside of lease area		One	One	One dump as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	381	RL 372- S-800 to E-200	RL 372-381 S-800 to E-200	NIL
4e	Number of active and alive dumps.		one	one	NIL
4f	Number of dead dumps.	NIL		NA	NIL
4g	Number of dumps established.	1		1	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	YES		YES	Bund and Garland Drains made along the bottom of dump.
4i	Length of Retaining wall or garland drain all along dumps	NIL		NA	No proposal for retaining walls
4j	Number of settling ponds	NIL		NA	NIL
4k	Specific comments of inspecting officer on waste dump management	-----		----	waste dump management is found satisfactory

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	NA	Mineral is not full extraction

5b	Area under backfilling of mined out area	NIL	NA	No proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No top soil generation
5d	Total area fully reclaimed and rehabilitated	NIL	NA	No Proposal in the MP period as Mine is under working.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NA	Reclamation does not arise at this stage

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	Submitted	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
6c	afforestation done (ha).	0.26	1.5ha	200 No trees planted within lease area and 3000 no trees planted outside the lease area.
6d	No. of saplings planted during the year	200 NOS	3200 Nos	NIL
6e	Cumulative no .of plants	--	71900 nos	NIL
6f	Any other method of rehabilitation	NIL	NOT APPLICABLE	No other specific method of rehabilitation
6g	Cost incurred on watch and care during the year	4 lakh	4 lakh	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	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 on backfilled area	NIL	NIL	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	No other specific means
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	na	No proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	No proposal for rehabilitation

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring	Periodical Monitoring	Periodical monitoring is going
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP compliance & progressive closure operations is found to be satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NA	No sorting at Mine Head
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	All the Mineral is used for Cement manufacturing.
7c	Different grade of mineral sorted out at mines.	NIL	NA	No different grade of Mineral is available at Mines
7d	Any beneficiation process at mines	NIL	NA	No beneficiation process at Mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Mineral conservation & beneficiation issues is found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No top soil generation for proposed year

8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generation for proposed year
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	Dumps maintaining as per the proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	Not at tis stage
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	No proposal
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	----	71900 Nos	NIL
8g	Survival rate	80%	60%	Due to less rain fall
8h	Water sprinkling on roads to control airborne dust	6KL Water Tanker Provided for Dust suppression	6KL Water Tanker Provided for Dust suppression	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	----	Aesthetic beauty in and around mines area is found good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	Annual return for 2018-19 submitted	Submitted in time

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mr. Sandeep Khakha - Mining Engineer Mr.Venkateswarlu STK - Geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	NIL	Part-I, Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	200nos	Part-V Sl.No.4.4
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	0	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	289030 ton	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Captive mine Production caste-Rs.477	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs.18412760/-	PART III, Sl.No. 2 (Royalty and Rents)
9k	Scrutiny of Annual return on mining machineries	Given in the format	Back hoe-3 Dumber-5 Blast Host drill-1 Explosive van-1 Water Tanker-1	PART - V (General Geology &Mining) Sl.No.5 PART - V (General Geology &Mining) Sl.No.5

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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines