

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/CBT/LST-3.MDS

Mine code : 38TMN02004

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr.R.S.Anand kumar Manager Mines
Official with
Designation
- (iv) Date of Inspection : 08/01/2020
- (v) Prev.inspection date : 03/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **WALAYAR**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TAMIL NADU**
- District : **COIMBATORE**
- Village : **MAUVTHAMPATTY**
- Taluka : **COIMBATORE**
- Post office : **NAVAKKARAI .G.CHAVADI VIA**
- Pin Code : **614105**
- FAX No. : **0422-2622286**
- E-mail : **suresh.wandhare@acclimited**
- Phone : **0422-2656688**
- (f) **Police Station** : **K G CHAVADI**
- (g) **First opening date** : **06/04/1966**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **MADUKKARAI CEMENT WORKS**
correspondance : **COIMBATORE - 641105**
3. (a) **Lease Number** : **TMN0011**
- (b) **Lease area** : **65.18**
- (c) **Period of lease** :
- (d) **Date of Expiry** : **12/02/2024**
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.SIVAKUMAR, Full Time
Qualification : B.E., MINING
Appointment/
Termination date :

Geologist

Name : Sri.Pradeep shahoo., Full Time
Qualification : MSc(Geology)
Appointment/
Termination date :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	20/09/2000
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29/08/2002
	:	Mining Scheme rule 12 MCDR1988	24/04/2009
	:	Mining Scheme rule 12 MCDR1988	25/04/2014
	:	MP review under 17(1) MCR 2016	12/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine fully explored
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine fully explored under G1 level
1e	Balance reserve as on 01/04/20	---	14.02 Mio Tonnes	NIL
1f	General remarks of inspecting officers on geology, exploration etc	--	---	Mine fully explored under G1 level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 17-20 RL 240-231 ML 17-20 RL 231-222 ML 13-19 RL 222-213 ML 14-19 RL 213-204 ML 25-29 RL 231-222 ML 22-27 RL 222-213 ML 11-14 RL 213-204 ML 29-30 RL 245-237	ML 17-20 RL 240-231 ML 17-20 RL 231-222 ML 13-19 RL 222-213 ML 29-30 RL 245-237	Workings are with as per proposal of MP
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No Top soli bench, Ob/Ore benches

2c	Stripping ratio or ore to OB ratio	1:0.59	1:0.59	NIL
2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generated
2e	Quantity of overburden generation in m3	147743 m3	111065 m3	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	----	development of pit is satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	nil
3b	Quantity of ROM mineral production proposed	1148574 tonnes(ROM) Limestone- 720119 tonn	729019(ROM) tonnes Limestone-406929 tonn	Ore percentage is 55% and Waste Percentage is 45% of Actual work. Production is in within the limit
3c	Recovery of sailable/usable mineral from ROM production	62%	55%	NIL
3d	Quantity of mineral reject generation	NIL	NA	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	No sub grade Mineral available
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	Mechanis	Mechanis	As per the proposal

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA		NIL
3j	Provision of drilling and blasting in mineral benches	yes	yes		NIL
3k	Provision of mining machineries in mineral benches	YES	YES		NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES		NIL
3m	Total area covered under excavation/pits	54.50 Ha	54.50 Ha		NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.59	1:0.59		NIL
3o	Total area put in use under different heads at the end of year	65.18 Ha	65.18 Ha		NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14- 750000Tonnes 2014-15- 728494Tonnes 2015-16- 732276Tonnes 2016-17- 725793Tonnes 2017-18 - 720305 tonnes	2013-14- 2014-15- 2015-16- 2016-17- 2017-18	407740Tonnes 374230Tonnes 402300Tonnes 465790Tonnes -544800tonnes	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
--------	------	-----------	-------------	---------

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NA	No top soil available in the lease area
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	No top soil & OB available
4c	Number of dumps within lease area and outside of lease area	01	01	Six matured dump located in South side of lease area plantation completed rehabilitated
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	na	As per the scheme of mining backfilling is going at Ml C to ML-04
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	NIL	NA	NIL
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	NIL
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	NIL

5b	Area under backfilling of mined out area	0.7 Ha	0.5 ha	Backfilling under progressive
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	No top soil available in the lease area
5d	Total area fully reclaimed and rehabilitated	NIL	Na	No top soil available in the lease area
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	-----	Backfilling under progressive

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	yes	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	Not at this stage
6c	afforestation done (ha).	0.2 ha	0.2 ha	NIL
6d	No. of saplings planted during the year	300 nos	300 nos	NIL
6e	Cumulative no .of plants	--	8800 nos	nil
6f	Any other method of rehabilitation	Nil	NA	NIL
6g	Cost incurred on watch and care during the year	---	3L	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	250 nos	300 nos	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	NA	No other specific means
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	Back filling under progressive
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)	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 satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

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

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No tops soil
8b	Concurrent use or storage of topsoil	NIL	NA	no top soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Used for Backfilling	Used for Backfilling	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NA	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	12KL Water Tanker Provided for Dust suppression	12KL 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 satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted in time	Given satisfactorily as per format
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mr. Vijay Srinivasan, Mining Engineer Mr. Biju Mathew -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	55.180 Hect	Part-I, Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	8800 Nos	Part-I, Sl.No.12

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	Not reported	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	0	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Rs.476.32	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs.120000000	PART III, Sl.No. 2 (Royalty and Rents)
9k	Scrutiny of Annual return on mining machineries	Given in the format	ACK HOE-1 BACK HOE-1 SHOVEL (HYDRAULIC)-1 BLAST HOST DRILL-2 DUMPER-5 EXPLOSIVE VAN-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 couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines