

**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 : 38TMN02007

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. ANAND -MINES MANAGER AND MR SAHU AGM
Official with
Designation
- (iv) Date of Inspection : 26-MAY-17
- (v) Prev.inspection date : 04-JAN-17

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-JAN-34
- (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** : TMN0005
- (b) **Lease area** : 14.29
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 27-NOV-99
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-APR-08
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04-DEC-13

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	THE AREA IS FULLY EXPLORED
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT APPLICABLE	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL, THE AREA IS FULLY EXPLORED
1e	Balance reserve as on 01/04/20	-	2.08 MILLION TONNES	NIL
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	NIL, THE AREA IS FULLY EXPLORED

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Road West(South side)	Road West(South side)	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	There is no top soil. The overburden(calc-granulite) bands are lying between Limestone bands. So there is no separate benches for O/B and Minerals, excavting it separately.
2c	Stripping ratio or ore to OB ratio	1:0.83	1:0.7	NIL, WITHIN LIMIT
2d	Quantity of topsoil generation in m3	No top soil available	No top soil available	NA

2e	Quantity of overburden generation in m3	1)2013-2014 307586 tonnes	1)2013-2014 tonnes	83622	total in period=692125 MT proposed excavated=450830
				2) 2014-2015 122362 tonnes	
		2) 2014-2015 140261 tonnes	177546 tonnes	3)2015-2016 tonnes	
				4)2016-2017 67300 tonnes	
		3)2015-2016 118537 tonnes			
		4)2016-2017 125741 tonnes			
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-		AS PER PLAN, SATISFACTORY

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks	
3a	Number of pit proposed for production	1	1	1,NIL	
3b	Quantity of ROM mineral production proposed	1)2013-2014 159845 tonnes	1)2013-2014 tonnes	102604	WITHIN PLAN QUANTITY.
				2) 2014-2015 127443 tonnes	
		2) 2014-2015 166005 tonnes	151871 tonnes	3)2015-2016 tonnes	
				4)2016-2017 91728 tonnes	
		3)2015-2016 151867 tonnes			
		4)2016-2017 151910 tonnes			
3c	Recovery of sailable/usable mineral from ROM production	-	91728 tonnes	No sailable Mineral, Mineral used for Captive consumption	
3d	Quantity of mineral reject generation	NIL	NIL	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	Not Applicable
3f	Quantity of sub grade mineral generation.	Not Applicable	Not Applicable	Not Applicable
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	MECHANISED	NIL, Mechanise loading of ROM. But there is no segregation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	YES	YES	NIL
3k	Provision of mining machineries in mineral benches	YES	2 loading machines, 4 dumpers, 2 drill machines deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES, AS PER PLAN	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.	1:0.8	1:0.73	for the year 2016-17.
3o	Total area put in use under different heads at the end of year	8 HA IN MINING 1 HA IN ROADS .17 IN PREPHERIAL GREEN BELT	8 HA IN MINING 1 HA IN ROADS .17 IN PREPHERIAL GREEN BELT	NIL

3p	Production of ROM mineral during the last five year period as applicable	1)2013-2014 159845 tonnes	1)2013-2014 tonnes	102604	Scheme period is from 2013-14 to 2017-18. Hence data provided from the current scheme period.
			2) 2014-2015 127443 tonnes		
		2) 2014-2015 166005 tonnes	3)2015-2016 151871 tonnes		
		3)2015-2016 151867 tonnes	4)2016-2017 91728 tonnes		
		4)2016-2017 151910 tonnes			
3q	General remarks of inspecting officers on method of mining etc.	-	-		SATISFACTORY

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil and mineral rejects. Only overburden (calc-granulite) is available between limestone band. Hence no separate dumps available.	As per proposal.	NIL
4b	Location of topsoil, OB and mineral reject dumps	RW (South side)	RW (South side)	NIL
4c	Number of dumps within lease area and outside of lease area	2	2	Within lease area (1)and one is backfilling dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RW South side	RW South side	NIL
4e	Number of active and alive dumps.	1	1	NIL

4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	1	1	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	PARTILY PROVIDED	Garlanding drain/retaining wall is not required for the backfilling dump and the garlanding drain is partialy provided in the stabilised dump.
4i	Length of Retaining wall or garland drain all along dumps	NIL	garland drains-lentgth-50 mts , Size -3m x1.5 mtrs	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	NIL,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.	PART BACKFILLING	Back filling is doing in full extraction area.	NIL
5b	Area under backfilling of mined out area	-	1.18HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil available.	No topsoil available.	No topsoil available.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No topsoil available. BACKFILLING STARTED IN SOUTH SIDE OF THE LEASE.
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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
6b	Area available for rehabilitation (ha) .	Not Applicable	Back filling is in progress.	Back filling is in progress.
6c	afforestation done (ha).	0.25HA	NIL	Last year due to poor monsson, plantation was not carried out. It will be compensate in the coming year.
6d	No. of saplings planted during the year	500	NIL	NIL
6e	Cumulative no .of plants	2000	1200	For scheme period(2013-14 to 2016-17)
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	70000	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	64 x 84 x 9	40 x 70 x 9	NIL,LOW PRODUCTION

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	YES	YES,Waste rock	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.5 Ha	0.28 Ha	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Applicable	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Applicable	Not Applicable	Not Applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Applicable	Not Applicable	Not Applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Applicable	Not Applicable	Not Applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	YES, "Ambient Air quality Monitoring - Qrtly Water quality monitoring - Qrtly noise monitoring - Qrtly Ground vibration - every blasting"	"Ambient Air quality Monitoring - Qrtly Water quality monitoring - Qrtly noise monitoring - Qrtly Ground vibration - every blasting" CARRIED OUT	DONE
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NOT APPLICABLE	NOT APPLICABLE	Grade wise sorting not applicable as only one grade of mineral is available
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
7c	Different grade of mineral sorted out at mines.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
7d	Any beneficiation process at mines	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NO TOPSOIL	NIL	NIL
8b	Concurrent use or storage of topsoil	No top soil available	No top soil available	No top soil available
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No top soil available ONLY WASTE ROCK	No top soil available ONLY WASTE ROCK	Only one type of dump avaibale for waste rock
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Only one type of dump avaibale for waste rock	Only one type of dump avaibale for waste rock BACKFILLING STARTED IN SOUTH SIDE	BACKFILLING STARTED IN SOUTH SIDE
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of Mined out pits	COMPLIED	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	At present total area of 0.88 Ha, afforested, with 2000 saplings	NIL
8g	Survival rate	85%	75%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	YES IT IS BEING DONE	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	YES	SUBMITTED	NIL, ONLY THE PRODUCTION IN ANNUAL PLAN IN NIL BUT PRODUCTION IS DONE VIOLATION POINTED OUT.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	YES PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	YES	PROVIDED	NIL
9d	Scrutiny of Annual return on afforestation	YES	GIVEN	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NO REJECTS	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CAPTIVE MINE	CAPTIVE MINE	NIL
9h	Scrutiny of Annual return on fixed assets	YES	GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	YES	GIVEN	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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines