

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

FMCP Inspection REPORT

Chennai regional office

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

Mine code : 38TMN02007

- (i) Name of the Inspecting : **K08**) **G.SORNADURAI KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. K.Shankar, QP & Thiru.Vijay, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 27/05/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MADUKKARAI (G.O.725)**
- (b) **Registration NO.** : **IBM/256/2011**
- (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** : M/S A.C.C LTD
correspondance MADUKKARAI CEMENT WORKS,
MADUKKARAI-641105
3. (a) **Lease Number** : TMN0005
- (b) **Lease area** : 14.29
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 27/11/1999
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : ACC LIMITED
 MADUKKARAI CEMENT WORKS
 MADUKKARAI COIMBATORE
 TAMIL NADU
 Phone:
 FAX :

Owner : Ajay Kapur
 ACC Ltd Madurkkarai Works
 Coimbatore COIMBATORE TAMIL
 NADU
 Phone:
 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

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 review under 17(1) MCR 2016	17/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Boreholes has been proposed during 2022-2023.	No Boreholes has drilled	Mine is non-working from 2020-2021. Lessee has submitted FMCP.
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2022-2023	No Boreholes has drilled	Entire lease area is proved upto 130m depth and under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2022-2023	No Boreholes has drilled	So far 33 boreholes have been drilled with 1548 meterage in the lease upto 2022-2023.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2021-2023.	No Boreholes has drilled	10.165 hectares area has been explored under G-1 category with 100m X 100m grid interval. 4.35 hectares are non-mineralised area.
1e	Balance reserve as on 01/04/20	As on 01.04.2023 Proved Mineral Reserves (111) = 1.315 million tons Feasibility Mineral Resources (211) = 3.01 million tons	As on 01.04.2023 Proved Mineral Reserves (111) = 1.91 million tons Feasibility Mineral Resources (211) = 3.01 million tons	The available grade of Limestone in this lease poor quality. The mine is not in operation for 2020-2021 due to uneconomic.
1f	General remarks of inspecting officers on geology, exploration etc	Limestone commonly shows inclusion of pyrite, biotite, muscovite.	The deposit consists of cavity infillings, joints, fractures,	Limestone is whitish and greyish white, coarse to fine grain.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During 2022-2023, working proposal was in R west pit.	Nil	The mine is not in operation from 2020-2021.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Minerals - 4 Benches	Nil	The mine is not in operation from 2020-2021.
2c	Stripping ratio or ore to OB ratio	1 : 1	Nil	The mine is not in operation from 2020-2021.
2d	Quantity of topsoil generation in m3	No Proposal during 2022-2023	Nil	The mine is not in operation from 2020-2021.
2e	Quantity of overburden generation in m3	167000 tons of OB has been proposed during 2022-2023	Nil	The mine is not in operation from 2020-2021.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2022-2023, working proposal was in R west pit.	167000 tons of OB has been proposed during 2022-2023	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	During 2022-2023, working proposal was in R west pit.	Nil	The mine is not in operation from 2020-2021.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 167000 tons during 2022-2023.	Nil	The mine is not in operation from 2020-2021.
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	Nil	The mine is not in operation from 2020-2021.
3d	Quantity of mineral reject generation	No Mineral Rejects has been proposed.	Nil	The mine is not in operation from 2020-2021.
3e	Grade of mineral rejects generation and threshold value declared.	No Mineral Rejects has been proposed.	Nil	The mine is not in operation from 2020-2021.

3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	Nil	The mine is not in operation from 2020-2021.
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	Nil	The mine is not in operation from 2020-2021.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Nil	The mine is not in operation from 2020-2021.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	The mine is not in operation from 2020-2021.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting are proposed.	Nil	The mine is not in operation from 2020-2021.
3k	Provision of mining machineries in mineral benches	Excavators Rock Breakers Dumpers	Nil	The mine is not in operation from 2020-2021.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-2023, Bench height of 4m was proposed in Mineral.	Nil	The mine is not in operation from 2020-2021.
3m	Total area covered under excavation/pits	9.72 hect area is proposed for Pit during 2022-2023	9.72 hect areas are under Pit only.	Proposal of working is within existing pit, so the mined out area is same.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1	Nil	The mine is not in operation from 2020-2021.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 9.72 hect Dump = 3.25 hect Green Belt = 0.88 hect	Land use Pattern as on 01.04.2023. Mines = 9.72 hect Dump = 3.25 hect Green Belt = 0.88 hect	The mine is not in operation from 2020-2021.

3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 167000 tons 2021-2022 = 167000 tons 2020-2021 = 167000 tons 2019-2020 = 167000 tons 2018-2019 = 167000 tons	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = Nil 2019-2020 = 76792 tons 2018-2019 = 166945 tons	The mine is not in operation from 2020-2021.
3q	General remarks of inspecting officers on method of mining etc.	During 2022-2023, working proposal was in R west pit.	The total target of ROM Production proposed was 167000 tons during 2022-2023.	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

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 proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2020-2021.
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2020-2021.
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 Non Lease area = Nil	Lease area = 2 Non Lease area = Nil	Dumps are old and existing as per approved plan.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2020-2021.
4e	Number of active and alive dumps.	Active Dump = 1	Nil	The mine is not in operation from 2020-2021.
4f	Number of dead dumps.	No Proposal	Nil	The mine is not in operation from 2020-2021.
4g	Number of dumps established.	No Dumps have been established.	Nil	The mine is not in operation from 2020-2021.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	The mine is not in operation from 2020-2021.

4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	The mine is not in operation from 2020-2021.
4j	Number of settling ponds	No Proposal	Nil	The mine is not in operation from 2020-2021.
4k	Specific comments of inspecting officer on waste dump management	There is no proposal for dumping during 2022-2023	Lessee has submitted FMCP	The mine is not in operation for 2020-2021 due to uneconomic.

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.	Backfilling has proposed on RW Pit during 2022-2023	No backfilling has done during 2022-2023	The mine is not in operation from 2020-2021.
5b	Area under backfilling of mined out area	1.80 hectares	Nil	The mine is not in operation from 2020-2021.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	The mine is not in operation from 2020-2021.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	The mine is not in operation from 2020-2021.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling has proposed on RW Pit during 2022-2023	No backfilling has done during 2022-2023	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It should be on or before 1st July every year.	Submitted for the year 2022-2023.	Submitted within time limit.
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	The mine is not in operation from 2020-2021.
6c	afforestation done (ha).	Gap Plantation	Gap Plantation	The mine is not in operation from 2020-2021.
6d	No. of saplings planted during the year	2500 saplings proposed	No saplings has been planted	The mine is not in operation from 2020-2021.
6e	Cumulative no .of plants	2500 saplings from 2018-2023	200 saplings from 2018-2023	The mine is not in operation from 2020-2021.
6f	Any other method of rehabilitation	No Proposal	Nil	The mine is not in operation from 2020-2021.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	The mine is not in operation from 2020-2021.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	The mine is not in operation from 2020-2021.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	The mine is not in operation from 2020-2021.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	The mine is not in operation from 2020-2021.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	The mine is not in operation from 2020-2021.

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	The mine is not in operation from 2020-2021.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	250 saplings proposed along the safety barrier of lease area for 2022-2023	No saplings have been planted within lease area during 2022-2023.	The mine is not in operation from 2020-2021.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Gap plantation Proposed in lease area for 2022-2023	No plantation has been planted.	The mine is not in operation from 2020-2021.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Green Belt development along 7.5m safety barrier.	No Plantation has been done as per proposal along the safety barrier.	The mine is not in operation from 2020-2021.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Nil	The mine is not in operation from 2020-2021.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	500 saplings proposed along the safety barrier of lease area for 2022-2023	No Plantation has been done as per proposal along the safety barrier.	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production proposed was 167000 tons during 2022-2023.	Nil	The mine is not in operation from 2020-2021.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade wise mineral sorting in the lease area.	Nil	The mine is not in operation from 2020-2021.

7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is Poor quality cement grade	Nil	The mine is not in operation from 2020-2021.
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	The mine is not in operation from 2020-2021.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production proposed was 167000 tons during 2022-2023.	The Limestone of the lease area is Poor quality cement grade	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal during 2022-2023	Nil	The mine is not in operation from 2020-2021.
8b	Concurrent use or storage of topsoil	No Proposal during 2022-2023	Nil	The mine is not in operation from 2020-2021.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2020-2021.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal during 2022-2023	Nil	The mine is not in operation from 2020-2021.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal during 2022-2023	Nil	The mine is not in operation from 2020-2021.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings proposed along safety barrier in lease area for 2022-2023	No saplings have planted within lease area during 2022-2023.	The mine is not in operation from 2020-2021.
8g	Survival rate	No Proposal in the document.	Nil	The mine is not in operation from 2020-2021.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Nil	The mine is not in operation from 2020-2021.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	There is no prominent river or stream running in this area.	Outside lease area, small seasonal shallow streams.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = May 2023 AR Submitted up to = 2021-2022	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for 2022-2023 is not submitted.	During inspection Mining Engineer is present.	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Return for 2022-2023 is not submitted.	Nil	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9d	Scrutiny of Annual return on afforestation	Annual Return for 2022-2023 is not submitted.	Lessee has not planted any saplings after 2020-2021.	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Return for 2022-2023 is not submitted.	Nil	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for 2022-2023 is not submitted.	Nil	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for 2022-2023 is not submitted.	It is captive mine of M/s. ACC	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9h	Scrutiny of Annual return on fixed assets	Annual Return for 2022-2023 is not submitted.	Nil	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.
9k	Scrutiny of Annual return on mining machineries	Annual Return for 2022-2023 is not submitted.	Not available in field due to non-working.	The mine is not in operation for 2020-2021 due to uneconomic. Lessee has submitted FMCP.

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 :

(G.SORNADURAI KANNAN)

Indian Bureau of Mines