

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMNT AND REGULATION DIVISION
Review and Updation of Mining Plan Report
Chennai Regional Office

Mine file No: TN/TNL/LST-108.MDS

Mine code: 38TMN15114

- (i) Name of the Inspecting Officer and ID No. : **(K08) G.SORNADURAI KANNAN**
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Thiru. K.N.Jiju, Qualified Person
- (iv) Date of Inspection : 18/10/2024
- (v) Prev. Inspection date : 11/10/2019

PART-I: GENERAL INFORMATION

1. (a) **Mine Name** : **THENKULAM G.O.155**
- (b) Registration No. : **IBM/613/2011**
- (C) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address : TENKULAM
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : TENKULAM
- Taluka : MANUR
- Post office : TENKULAM
- Pin Code : 627357
- FAX No. : 0462-2300595
- E-mail : mines@indiacements.co.in
- Phone : 0462-2300221
- (f) Police Station : TALAIYUTHU
- (g) First opening date : 10.10.1955
- (h) Weekly day of rest : SUN
2. Address for correspondence : Thenkulam Limestone Mines
Sankar Nagar,
Tirunelveli- 627357
3. (a) Lease Number : TMN0642
- (b) Lease area : 9.24 Hectares
- (C) Period of lease : 50 Years
- (d) Date of Expiry : 31.03.2030
4. Mineral Worked : Limestone Main

5. Name and Address of the

Lessee : THE INDIA CEMENTS LIMITED,
DHUN BUILDING, 827
ANNA SALAI, CHENNAI,
TAMILNADU
Phone: 044 - 28521526
FAX : 044 - 28526311

Owner : Thiru.V.M.Mohan,
Coromandel towers,
93, Santhom high road, RA Puram
Chennai - 600026
Phone: 044 - 28521526
FAX : 044 - 28526311

Agent : Thiru. K.Saravanamuthu,
Sankar Nagar,
Tirunelveli- 6273578
Phone: 0462 - 2300595

Mining Engineer

Name : G.Rajesh, Full Time
Qualification : B.E., (Mining Engineering)
Appointment/
Termination date : 03.07.2024

Geologist

Name : K.N.Jiju, Full Time
Qualification : M.Sc, (Geology)
Appointment/
Termination date : 03.07.2024

Manager

Name : G.Rajesh,
Qualification : B.E., (Mining Engineering)
Appointment/
Termination date : 03.07.2024

5. Date of approval of Mining : Fresh under rule 22 MCR1960 12/09/1995
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 07/10/2002
Mining Scheme rule 12 MCDR1988 04/02/2013
Mining Scheme rule 12 MCDR1988 07/02/2013
MP modif rule MCDR 1960 04/11/2015

SCIENTIFIC MINING

Sl. No	Item	Proposals	Actual Work	Remarks
A. EXPLORATION:-				
1a	Backlog of Previous Year	No Borehole has been proposed during 2023-2024	No Boreholes has drilled	The mine is not in operation from 2014-2015.
1b	Exploration Over Lease area for Geological Axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2023-2024	Nil	Entire lease area is proved under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2023-2024	No Boreholes has been drilled	So far 24 boreholes have been drilled in the lease upto 2023-2024. With total meterage 610m.
1d	Balance area to be explored to bring Geological axis 1 or 2	Exploration was not proposed during 2023-2024.	No Exploration has been carried out during 2023-2024.	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserves as on 01/04/2024	As on 01.04.2024 Proved Mineral Reserves (111) = 403282 tons Feasibility Mineral Resources (211) = 655525 tons.	As on 01.04.2024 Proved Mineral Reserves (111) = 1259154 tons Feasibility Mineral Resources (211) = 655525 tons.	The available grade of Limestone in this lease cement Grade. The mine is not in operation for 2014-2015.
1f	General remarks of inspecting officer on geology, exploration etc.	It is part of Archean complex of peninsular gneiss.	The deposit consists of Metamorphosed crystalline limestone associated with calc gneiss and quartzite.	Limestone is medium to coarse grained. More number of intrusions of pegmatite and quartz veins.

Sl. No	Item	Proposals	Actual Work	Remarks
B. DEVELOPMENT:-				
2a	Location of development w.r.t. lease area	During 2023-2024, it is proposed to work on Existing Pit-3 & 5.	Nil	The mine is not in operation from 2014-2015.
2b	Separate benches in topsoil, overburden and mineral	Mineral bench – I to III	Nil	The mine is not in operation from 2014-2015.
2c	Stripping ratio or ore to OB ratio	1 : 3.30	Nil	The mine is not in operation from 2014-2015.

2d	Quantity of topsoil generation in m3	No Proposal during 2023-24	Nil	The mine is not in operation from 2014-2015.
2e	Quantity of overburden generation in m3	55257 tons of overburden has been proposed during 2023-2024	Nil	The mine is not in operation from 2014-2015.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	During 2023-2024, it is proposed to work on Existing Pit-3 & 5.	55257 tons of overburden has been proposed during 2023-2024	The mine is not in operation from 2014-2015 for statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
C. EXPLOITATION:-				
3a	Number of Pit Proposed for Production	During 2023-2024, it is proposed to work on Existing Pit-3 & 5.	Nil	The mine is not in operation from 2014-2015.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 105292 tons during 2023-2024.	Nil	The mine is not in operation from 2014-2015.
3c	Recovery of Sailable/ Usable Mineral from ROM Production	57911 tons of usable mineral during 2023-2024	Nil	The mine is not in operation from 2014-2015.
3d	Quantity of mineral reject generation	47381 tons of Mineral rejects during 2023-2024	Nil	The mine is not in operation from 2014-2015.
3e	Grade of mineral reject generation and threshold value declared	High silica is considered as mineral rejects.	Nil	The mine is not in operation from 2014-2015.
3f	Quantity of sub-grade mineral generation	No Sub Grade Generation	Nil	The mine is not in operation from 2014-2015.
3g	Grade of sub-grade mineral generation	There is No Generation of Subgrade Mineral	Nil	The mine is not in operation from 2014-2015.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Nil	The mine is not in operation from 2014-2015.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Beneficiation Study is Proposed	Nil	The mine is not in operation from 2014-2015.

3j	Provision of drilling & blasting in mineral benches	Drilling & blasting are proposed with 115mm dia holes	Nil	The mine is not in operation from 2014-2015.
3k	Provision of mining machineries in mineral benches	Excavators Tippers Drills Compressor	Nil	The mine is not in operation from 2014-2015.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height benches has been proposed during 2023-2024	Nil	The mine is not in operation from 2014-2015.
3m	Total area covered under excavation/pits	4.00 hectares	1.12 hectares	Existing pit. The mine is not in operation from 2014-2015.
3n	Ore to OB ratio for the pit/mine during the year	1 : 3.30	Nil	The mine is not in operation from 2014-2015.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2024. Mines = 4.00 hect Dump = 1.00 hect	Land use Pattern as on 01.04.2024. Mines = 1.12 hect	Landuse Pattern is updated based on submitted draft RMP
3p	Production of ROM mineral during last five-year period, as applicable	2023-2024 = 105292 tons 2022-2023 = 105305 tons 2021-2022 = 105395 tons 2020-2021 = 105313 tons 2019-2020 = 104660 tons	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil	The mine is not in operation from 2014-2015 for want of statutory clearance.
3q	General remarks of inspecting officer on method of mining etc.	During 2023-2024, it is proposed to work on Existing Pit-3 & 5.	The total target of ROM Production proposed was 105292 tons during 2023-2024.	The mine is not in operation from 2014-2015 for statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING:-				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	There is proposal for dumping during 2023-2024	Nil	The mine is not in operation from 2014-2015.
4b	Location of Topsoil, OB and Mineral Rejects Dumps	OB & Mineral reject dumps are proposed along the existing Dump-1 & 2 on Northern side of lease area during 2023-2024	Nil	The mine is not in operation from 2014-2015.
4c	Number of Dumps within Lease & Outside Lease area	Lease area = 2	Lease area = 2	Dumps are old and existing as per approved plan.

4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Outside the UPL	Nil	The mine is not in operation from 2014-2015.
4e	Number of Active & Alive Dumps	Active Dump = 1 & 2	Nil	The mine is not in operation from 2014-2015.
4f	No of Dead Dumps	No Proposal	Nil	The mine is not in operation from 2014-2015.
4g	No of Dumps Established	No Dumps have been established.	Nil	The mine is not in operation from 2014-2015.
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes proposed along the dumps	Nil	The mine is not in operation from 2014-2015.
4i	Length of Retaining Wall or Garland drain along Dumps	211m has been proposed along waste dump	Nil	The mine is not in operation from 2014-2015.
4j	No of Settling tanks	No Proposal	Nil	The mine is not in operation from 2014-2015.
4k	Specific comments of inspecting officer on waste dump management	There is proposal for dumping during 2023-2024	OB & Mineral reject dumps are proposed along the existing Dump-1 & 2 on Northern side of lease area during 2023-2024	The mine is not in operation from 2014-2015 for statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING:-				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No Backfilling has been proposed during 2023-2024	No backfilling has done during 2023-2024	The mine was not worked upto the proved depth and no backfilling were proposed during 2023-2024.
5b	Area under backfilling of mined out area	No proposal for Backfilling.	Nil	The mine is not in operation from 2014-2015.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal for topsoil	Nil	The mine is not in operation from 2014-2015.

5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	The mine is not in operation from 2014-2015.
5e	General remarks of inspecting officer on backfilling, reclamation etc	There is no proposal for backfilling during 2023-2024	The mine was not worked upto the proved depth and no backfilling were proposed during 2023-2024.	The mine is not in operation from 2014-2015 for want of statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
F. PROGRESSIVE MINE CLOSURE PLAN:-				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	It should be on or before 1 st July every year.	Not Submitted for the year 2023-2024.	Submitted within time limit.
6b	Management of worked/ mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) No Proposal ii) No Proposal iii) No Proposal iv) No Proposal v) No Proposal vi) No Proposal	i) Nil ii) Nil iii) Nil iv) Nil v) Nil vi) Nil	The mine is not in operation from 2014-2015.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/ tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) No Proposal ii) No Proposal iii) No Proposal iv) No Proposal v) No Proposal	i) Nil ii) Nil iii) Nil iv) Nil v) Nil	The mine is not in operation from 2014-2015.

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 250 saplings proposed on 7.5m safety barrier of lease area for 2023-2024 ii) Proposed 0.100 hect in 7.5m safety barrier of lease area for 2023-2024 iii) Green Belt development along 7.5m safety barrier.	i) Nil ii) Nil iii) Nil	The mine is not in operation from 2014-2015.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Bi-Annually Survey	Nil	The mine is not in operation from 2014-2015.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	250 saplings proposed on 7.5m safety barrier of lease area for 2023-2024	Proposed 0.100 hect in 7.5m safety barrier of lease area for 2023-2024	The mine is not in operation from 2014-2015 for want of statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
G. MINERAL CONSERVATION:-				
7a	ROM mineral dispatch or grade wise sorting within lease area	The total target of ROM Production proposed was 105292 tons during 2023-2024.	Nil	The mine is not in operation from 2014-2015.
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 2014-2015.
7c	Different grade of mineral sorted out at mines	The Limestone of the lease area is cement grade	Nil	The mine is not in operation from 2014-2015.
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 2014-2015.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The total target of ROM Production proposed was 105292 tons during 2023-2024.	The Limestone of the lease area is cement grade	The mine is not in operation from 2014-2015 for statutory clearance.

Sl. No	Item	Proposals	Actual Work	Remarks
H. ENVIRONMENT:-				

8a	Separate removal and utilization of topsoil	No Proposal during 2023-2024	Nil	The mine is not in operation from 2014-2015.
8b	Concurrent use or storage of topsoil	No Proposal during 2023-2024	Nil	The mine is not in operation from 2014-2015.
8c	Separate dumps for overburden, waste rock, rejects and fines	There is proposal for dumping during 2023-2024	Nil	The mine is not in operation from 2014-2015.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Backfilling has been proposed during 2023-2024	Nil	The mine is not in operation from 2014-2015.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Backfilling has been proposed during 2023-2024	Nil	The mine is not in operation from 2014-2015.
8f	Baseline information on existence of plantation & additional plantation done	250 saplings proposed on 7.5m safety barrier of lease area for 2023-2024	Nil	The mine is not in operation from 2014-2015.
8g	Survival rate	No Proposal in the document.	Nil	The mine is not in operation from 2014-2015.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Nil	The mine is not in operation from 2014-2015.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Degraded Mining Land	Outside lease area, agriculture is done with drift irrigation.

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45:-				
9a	Status of Submission of Monthly & Annual Returns	MR & AR Submitted	Annual & Monthly returns are submitted in online	Both Annual & Monthly returns are submitted in online
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer & Mining Geologist has not shown	Nil	The mine is not in operation from 2014-2015 for want of statutory clearance.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2024. Mines = 1.12 hect	Landuse Pattern is filled as per approved Mining Plan	The mine is not in operation from 2014-2015 for want of statutory clearance.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	The mine is not in operation from 2014-2015 for want of statutory clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	There is no Mineral Rejects Generation	Nil	The mine is not in operation from 2014-2015 for want of statutory clearance.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone stock as on 01.04.2024 ROM opening stock = Nil ROM closing stock = Nil.	There is no production and dispatches during 2023-2024	The mine is not in operation from 2014-2015 for want of statutory clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production & Ex. Mine price has Zero	It is captive mine of M/s. India Cements Ltd.	The mine is not in operation from 2014-2015 for want of statutory clearance.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given for entire group of mines.	Fixed Assets is filled	The mine is not in operation from 2014-2015 for want of statutory clearance.
9k	Scrutiny of Annual return on mining machineries	Machineries details not given	Not available in field due to non-working.	The mine is not in operation from 2014-2015 for want of statutory clearance.

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

There is no Violation pointed out because of mine is not working for want of statutory clearance.

G.S.Kannan
Senior Mining Geologist