

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

Review and updation of Mining Plan REPORT

Chennai regional office

Mine file No : TN/TNL/LST-7B.MDS

Mine code : 38TMN15009

- (i) Name of the Inspecting : **K08**) **G.SORNADURAI KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. K.N. Jiju, QP
Official with
Designation
- (iv) Date of Inspection : 23/10/2023
- (v) Prev.inspection date : 26/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANJAKULAM (G.O.681)**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : RAMAYANPATTI
- Taluka :
- Post office : SANKARNAGAR
- Pin Code :
- FAX No. :
- E-mail : jiju.kn@indiacements.co.in
- Phone : 9443282884
- (f) Police Station : Sankarnagar
- (g) First opening date : 01/01/1948
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : TMN0152
- (b) Lease area : 2.19
- (c) Period of lease : 20
- (d) Date of Expiry : 09/10/2015
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : THE INDIA CEMENTS LIMITED
 DHUN BUILDING 827, ANNA
 SALAI CHENNAI CITY TAMIL
 NADU
 Phone:044-28521526, 28521527,28572100,28572400
 FAX :044-28526311

Owner : INDIA CEMENTS LTD
 INDIA CEMENT LTD, SANKAR
 NAGAR POST, TIRUNELVELI
 DISTRICT. TIRUNELVELI TAMIL
 NADU
 Phone:
 FAX :

Agent : A.veerabagu
 India cements Ltd sakari
 works salem SALEM TAMIL
 NADU
 Phone: 044-28521526
 FAX : 044-28526311

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	18/02/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	03/12/2018

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	The mine is not in operation from 2015-2016.
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2022-2023	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 2022-2023	No Boreholes has been drilled	So far 12 boreholes have been drilled in the lease upto 2022-2023. With total meterage 248m.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2022-2023.	No Exploration has been carried out during 2022-2023.	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	As on 01.04.2023 Proved Mineral Reserves (111) = 12997 tons	As on 01.04.2023 Proved Mineral Reserves (111) = 430000 tons	The available grade of Limestone in this lease cement Grade. The mine is not in operation for 2015-2016.
1f	General remarks of inspecting officers 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.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2022-2023, it is proposed to work on East pit.	Nil	The mine is not in operation from 2015-2016.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB - 1 Benches Minerals - 2 Benches	Nil	The mine is not in operation from 2015-2016.
2c	Stripping ratio or ore to OB ratio	1 : 0.75	Nil	The mine is not in operation from 2015-2016.
2d	Quantity of topsoil generation in m3	No Proposal during 2022-2023	Nil	The mine is not in operation from 2015-2016.
2e	Quantity of overburden generation in m3	31460 tons of overburden has been proposed during 2022-2023	Nil	The mine is not in operation from 2015-2016.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2022-2023, it is proposed to work on East pit.	31460 tons of overburden has been proposed during 2022-2023	The mine is not in operation from 2015-2016 for statutory clearance.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was Proposed in East pit during 2022-2023	Nil	The mine is not in operation from 2015-2016.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 99990 tons during 2022-2023.	Nil	The mine is not in operation from 2015-2016.
3c	Recovery of sailable/usable mineral from ROM production	80% Recovery	Nil	The mine is not in operation from 2015-2016.
3d	Quantity of mineral reject generation	25055 tons of Mineral Rejects has proposed.	Nil	The mine is not in operation from 2015-2016.
3e	Grade of mineral rejects generation and threshold value declared.	High silica is considered as mineral rejects.	Nil	The mine is not in operation from 2015-2016.

3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	Nil	The mine is not in operation from 2015-2016.
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	Nil	The mine is not in operation from 2015-2016.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Nil	The mine is not in operation from 2015-2016.
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 2015-2016.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting are proposed with 115mm dia holes	Nil	The mine is not in operation from 2015-2016.
3k	Provision of mining machineries in mineral benches	Excavators Tippers Drills Compressor	Nil	The mine is not in operation from 2015-2016.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-2023, Bench height of 5m was proposed in Mineral.	Nil	The mine is not in operation from 2015-2016.
3m	Total area covered under excavation/pits	8.765 hect area is proposed for Pit during 2022-2023	8.409 hect areas are under Pit only.	The mine is not in operation from 2015-2016.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.75	Nil	The mine is not in operation from 2015-2016.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 8.765 hect Dump = 6.07 hect	Land use Pattern as on 01.04.2023. Mines = 8.409 hect Dump = 6.03 hect	Landuse pattern is not achieved as per proposal due of non-working of mines.

3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 99990 tons 2021-2022 = 106542 tons 2020-2021 = 110246 tons 2019-2020 = 100225 tons 2018-2019 = 75240 tons	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil	The mine is not in operation from 2015-2016 for want of statutory clearance.
3q	General remarks of inspecting officers on method of mining etc.	Production was Proposed in East pit during 2022-2023	The total target of ROM Production proposed was 99990 tons during 2022-2023.	The mine is not in operation from 2015-2016 for want of statutory clearance.

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 proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2015-2016.
4b	Location of topsoil, OB and mineral reject dumps	OB & Mineral reject dumps are proposed along the North side of existing dump of lease area.	Nil	The mine is not in operation from 2015-2016.
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 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)	Outside UPL	Nil	The mine is not in operation from 2015-2016.
4e	Number of active and alive dumps.	Active Dump = one	Nil	The mine is not in operation from 2015-2016.
4f	Number of dead dumps.	No Proposal	Nil	The mine is not in operation from 2015-2016.
4g	Number of dumps established.	No Dumps have been established.	Nil	The mine is not in operation from 2015-2016.

4h	Whether Retaining wall or garland drain all along dumps are there.	Yes proposed along the dumps	Nil	The mine is not in operation from 2015-2016.
4i	Length of Retaining wall or garland drain all along dumps	244m of Retaining wall and Garland drainage proposed.	Nil	The mine is not in operation from 2015-2016.
4j	Number of settling ponds	No Proposal	Nil	The mine is not in operation from 2015-2016.
4k	Specific comments of inspecting officer on waste dump management	There is proposal for dumping during 2022-2023	OB & Mineral reject dumps are proposed along the North side of existing dump of lease area.	The mine is not in operation from 2015-2016 for want of statutory clearance.

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.	No proposal for backfilling during 2022-2023	No backfilling has done during 2022-2023	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023.
5b	Area under backfilling of mined out area	No Proposal	Nil	The mine is not in operation from 2015-2016.
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 2015-2016.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	The mine is not in operation from 2015-2016.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no proposal for backfilling during 2022-2023	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023.	The mine is not in operation from 2015-2016 for want of statutory clearance.

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 2015-2016.
6c	afforestation done (ha).	No Proposal	Nil	The mine is not in operation from 2015-2016.
6d	No. of saplings planted during the year	No Proposal	Nil	The mine is not in operation from 2015-2016.
6e	Cumulative no .of plants	No Proposal	Nil	The mine is not in operation from 2015-2016.
6f	Any other method of rehabilitation	No Proposal	Nil	The mine is not in operation from 2015-2016.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	The mine is not in operation from 2015-2016.
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 2015-2016.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	The mine is not in operation from 2015-2016.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	The mine is not in operation from 2015-2016.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	The mine is not in operation from 2015-2016.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	The mine is not in operation from 2015-2016.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 saplings proposed along North Western side of lease area for 2022-2023	Nil	The mine is not in operation from 2015-2016.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.050 hect in Western side of lease area for 2022-2023	Nil	The mine is not in operation from 2015-2016.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green Belt development along 7.5m safety barrier.	Nil	The mine is not in operation from 2015-2016.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Nil	The mine is not in operation from 2015-2016.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	50 saplings proposed along North Western side of lease area for 2022-2023	Proposed 0.050 hect in North Western side of lease area for 2022-2023	The mine is not in operation from 2015-2016 for want of statutory clearance.

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 99990 tons during 2022-2023.	Nil	The mine is not in operation from 2015-2016.
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 2015-2016.

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 2015-2016.
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 2015-2016.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production proposed was 99990 tons during 2022-2023.	The Limestone of the lease area is cement grade	The mine is not in operation from 2015-2016 for statutory clearance.

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 2015-2016.
8b	Concurrent use or storage of topsoil	No Proposal during 2022-2023	Nil	The mine is not in operation from 2015-2016.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is proposal for dumping during 2022-2023	Nil	The mine is not in operation from 2015-2016.
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 2015-2016.
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 2015-2016.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 saplings proposed along North Western side of lease area for 2022-2023	Nil	The mine is not in operation from 2015-2016.
8g	Survival rate	No Proposal in the document.	Nil	The mine is not in operation from 2015-2016.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Nil	The mine is not in operation from 2015-2016.
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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = September 2022 AR Submitted up to = 2022-2023	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	Full time Mining Engineer & Geologist has not shown	Nil	The mine is not in operation from 2015-2016 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 01.04.2023. Mines = 8.409 hect Dump = 6.03 hect	Landuse Pattern is filled as per approved Mining Plan	The mine is not in operation from 2015-2016 for want of statutory clearance.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	The mine is not in operation from 2015-2016 for want of statutory clearance.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	Nil	The mine is not in operation from 2015-2016 for want of statutory clearance.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone stock as on 01.04.2023 ROM opening stock = Nil ROM closing stock = Nil.	There is no production and dispatches during 2022-2023	The mine is not in operation from 2015-2016 for want of statutory clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and 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 2015-2016 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 2015-2016 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 2015-2016 for want of statutory clearance.

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