

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TNL/TNL/LST-4.MDS

Mine code : 38TMN15007

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI JIJU SR. AM GEOLOGY & CHANDRASHEKHER AGM-GEOLOG
Official with
Designation
- (iv) Date of Inspection : 02-MAY-17
- (v) Prev.inspection date : 23-FEB-13

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : NANJAKULAM (G.O.526)
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : RAMAYANPATTI
- Taluka : TIRUNELVELI
- Post office : RAMAYANAPATTI
- Pin Code : 627358
- FAX No. : 0462- 300595
- E-mail : iclmd3@vsnl.net.in
- Phone : 0462-2300221 TO 2300226
- (f) **Police Station** :
- (g) **First opening date** : 01-DEC-61
- (h) **Weekly day of rest** : SUN
2. **Address for** : SANKARNAGAR-627357
correspondance TIRUNELVELI DT
3. (a) **Lease Number** : TMN0151
- (b) **Lease area** : 28.43
- (c) **Period of lease** : 5
- (d) **Date of Expiry** : 17-OCT-87
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 : R K DAS, THE INDIA CEMENT LTD
 Coramandel Tower,
 93,Karpagam Avenue Sandome
 high road, R.A.Puram
 CHENNAI CITY TAMIL NADU
 Phone: 044-28521526,28
 FAX : 04428526311, 04

Agent : S.NANDAKUMAR,M/s ICL.
 M/S INDIA CEMENTS LTD
 SANKARNAGAR TIRUNELVELI
 TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : A.GURUBALASUBRAMANIAN,Full Time
 Qualification : BE(MINING)
 Appointment/ : 11-AUG-01
 Termination date

Manager

Name : R.BALAMURUGAN
 Qualification : B.E,MINING
 Appointment/ : 04-MAY-09
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22-JUN-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	22-JUL-09
		Mining Scheme rule 12 MCDR1988	05-NOV-13
		MP modif under MCR 1960	13-OCT-15

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	The entire mining lease area is proved as G1 category.	The entire mining lease area is proved as G1 category.	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	751123 Ts	869929 Ts	THE INCREASE DUE TO CLOSURE OF MINES DUE TO EC
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	benches are in north side of ML area from 99RL to 79RL No mining operation during 2016-17	No mining operation during 2016-17	benches are in north side of ML area from 99RL to 79RL & No mining operation during 2016-17
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	NIL
2c	Stripping ratio or ore to OB ratio	1:4.1	NIL	MINES CLOSED DUE TO EC
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL

2e	Quantity of overburden generation in m3	114616 Ts	NIL	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	THE MINES IS CLOSED DUE TO EC.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	NIL
3b	Quantity of ROM mineral production proposed	47887 Ts	NIL	NIL
3c	Recovery of sailable/usable mineral from ROM production	31858 Ts	NIL	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NOT AVAILABLE	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	NIL, MINE CLOSED DUE TO EC.	MINES IS CLOSED DUE TO EC
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO PROPOSAL	NIL	NIL

3j	Provision of drilling and blasting in mineral benches	YES	NIL	MINES CLOSED DUE TO EC
3k	Provision of mining machineries in mineral benches	YES "Compressor - 1 Nos Wagon Dril - 2 Nos PC 300 - 1 No Tipper - 5 Nos Dumper -2 Nos Dozer - 1 Nos"	No mining operation during 2016-17	No mining operation during 2016-17
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	3.483 Ha	3.334 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:4.10	NIL	NIL
3o	Total area put in use under different heads at the end of year	2.8HA -MINING .5 HA-ROADS 0.183- PREPHERIAL AREA	2.7HA -MINING .5 HA-ROADS 0.134-PREPHERIAL AREA	AS PLANNED
3q	General remarks of inspecting officers on method of mining etc.	-	-	MINES IS CLOSED DUE TO EC.

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 topsoil and mineral reject generated from this mine. The OB generated from this mining lease area is proposed dump in separately.	Separate waste dump is located in the south side of mining lease area.	NIL

4b	Location of topsoil, OB and mineral reject dumps	South side dump RL118 to 103RL	NO WORK IN CURRENT YEAR	NIL
4c	Number of dumps within lease area and outside of lease area	THREE OLD dumps is present in within the lease area	THREE OLD dumps is present within the lease area.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South side dump located out side of UPL	South side dump located out side of UPL	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	The dumps are active, so there is no garland drain constructed around dumps.	The dumps are active, so there is no garland drain constructed around dumps.	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	0	0	0
4k	Specific comments of inspecting officer on waste dump management	-	-	MINES HAS WORKED AS PER PLAN.

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 Not Applicable	No proposal Not Applicable	Not Applicable
5b	Area under backfilling of mined out area	No proposal Not Applicable	No proposal Not Applicable	Not Applicable

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal Not Applicable	No proposal Not Applicable FOR THE TIME BEING	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	THE MINE HAS TO ACHIEVE THE UPL BEFORE START BACKFILLING AND DONE ACCORDINGLY.

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	SUBMITTED	NIL
6b	Area available for rehabilitation (ha) .	0.05HA	NIL	NIL
6c	afforestation done (ha).	0.05HA	NIL	NIL
6d	No. of saplings planted during the year	50	NIL	NIL
6e	Cumulative no .of plants	200	612	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NO PROPOSAL	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NO PROPOSAL	NIL	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NO PROPOSAL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NO PROPOSAL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	It is proposed to utilise the mined out pit for rain water harvesting at the end of life of mine.	Presently rain water temporarily stored in mine sump for plantation development.	NIL, SATISFACTORY
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NO PROPOSAL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NO PROPOSAL	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NOT AVAILABLE	NOT AVAILABLE	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NO PROPOSAL	NIL	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Survey proposed to carryout in 4 seasons in 3,1,2 & 1 location in respect of Ambient air quality, Water quality, Noise Level & Soil Quality respectively	Survey contacted in 4 seasons in 3,1,2 & 1 location in respect of Ambient air quality, Water quality, Noise Level & Soil Quality respectively	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	THE MINES IS NOT IN OPERATION BUT THEY HAVE CONDUCTED THE ENV. MONITORING, SATISFACTORY.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The interstitial waste rocks separated mechanically during loading.	No mining operation during 2016-17	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	The interstitial waste rocks separated mechanically during loading	No mining operation during 2016-17	NIL
7c	Different grade of mineral sorted out at mines.	Cement grade and magnesia limestone	Cement grade and magnesia limestone	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	THE MINES IN NON-FUNCTIONAL DUE TO EC.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no topsoil generated in the mines	There is no topsoil generated in the mines	NIL
8b	Concurrent use or storage of topsoil	There is no topsoil generated in the mines	There is no topsoil generated in the mines	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes As proposed.	Yes As proposed.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NO PROPOSAL	NOT APPLICABLE	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NO PROPOSAL	NOT APPLICABLE	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500	NILIN THIS YEAR	NIL
8g	Survival rate	NIL	NIL	NIL
8h	Water sprinkling on roads to control airborne dust	YES	YES	NIL, SATISFACTORY

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return & Annual Return	Monthly Return & Annual Return Submitted in Time	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	YES	GIVEN	GIVEN
9d	Scrutiny of Annual return on afforestation	YES	GIVEN	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	CAPTIVE MINES	GIVEN	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NO STOCK	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CAPTIVE MINES	NIL	NIL
9h	Scrutiny of Annual return on fixed assets	YES	GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	YES PROVIDED	GIVEN	NIL

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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines