

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

MCDR INSPECTION REPORT

Chennai regional office

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

Mine code : 38TMN15006

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : shri JiJu Sr.Asst.manager, shri chandrashaker Asst.ge
Official with
Designation
- (iv) Date of Inspection : 01-MAY-17
- (v) Prev.inspection date : 23-FEB-13

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : NANJAKULAM (G.O.813)
- (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 : SANKARNAGAR
- Pin Code :
- FAX No. : 0462-230 0595
- E-mail :
- Phone : 0462-2300221 TO 2300226
- (f) **Police Station** :
- (g) **First opening date** : 01-DEC-61
- (h) **Weekly day of rest** : SUN
2. **Address for** : THE INDIA CEMENTS LTD.,
correspondance SANKARNAGAR-627357
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
 DEVANNAGOUNDANUR SANKARI
 SALEM SALEM TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : S. CHANDRA SEKARAN,Full Time
 Qualification : BE(MINING)
 Appointment/ :
 Termination date

Geologist

Name : R.CHANDRA SEKCHARAN,Full Time
 Qualification : MSC(GEOLOGY)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	24-JUL-09
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05-NOV-13
	:	MP modif under MCR 1960	04-NOV-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	G1 CATAGORY EXPLORATION	THE ENTIRE MINING LEASE IS EXPLORED TO G1 CATAGORY.	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	NA	NA	NIL
1e	Balance reserve as on 01/04/20	5250822 mt	6042491 mt	
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	THE LEASE IS FULLY EXPLORED

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North and south side of benches advancing towards north and south direction from 83RL to 100RL	No mining operation during 2016-17	NO MINING OPT. DUE TO ec CLERANCE
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	NIL
2c	Stripping ratio or ore to OB ratio	1:0.82	NIL	NA
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL

2e	Quantity of overburden generation in m3	81118T	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	DEPOSIT DIPPING SOUTH BY 65-70DEGREE

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	NIL
3b	Quantity of ROM mineral production proposed	344366	NIL	NIL
3c	Recovery of sailable/usable mineral from ROM production	233179	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	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	NIL	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NIL

3j	Provision of drilling and blasting in mineral benches	DEEP HOLE DRILLING AND BLASTING	NO MINING IN 2016-17	NO MINING IN 2016-17
3k	Provision of mining machineries in mineral benches	"Compressor - 1 Nos Wagon Drill - 2 Nos PC 300 - 1 No Tipper - 5 Nos Dumper - 2 Nos Dozer - 1 Nos"	NIL	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	NIL	"Compressor - 1 Nos Wagon Drill - 2 Nos PC 300 - 1 No Tipper - 5 Nos Dumper - 2 Nos Dozer - 1 Nos" IS IDLE
3m	Total area covered under excavation/pits	12.418 ha	11.031ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.82	nil	
3o	Total area put in use under different heads at the end of year	mining12.418 ha ob dump3.548ha roads 0.5 ha office0.5 plantation2.0h a insitu=9.646 ha	mining12.418 ha ob dump=2.65 ha roads= .5 ha office=.5 plantation=2.5ha insitu=9.862 ha	nil
3p	Production of ROM mineral during the last five year period as applicable	"2012-13 - 171500 Ts 2013-14 - 234454 Ts 2014-15 - 235597 Ts 2015-16 - 233627 Ts 2016-17 - 233179 Ts"	"2012-13 - 175700.46 Ts 2013-14 - 135613.18 Ts 2014-15 - 7534.74 Ts 2015-16 - Nil 2016-17 - Nil"	production in within mining scheme.
3q	General remarks of inspecting officers on method of mining etc.	na	na	the mining is carried out as per MS.

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, East & west side of mining lease area.	nil
4b	Location of topsoil, OB and mineral reject dumps	West side dump RL103 to 109RL	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	West side dump RL103 to 109RL	Three dumps are present in within the lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are located outside of UPL	Dumps are located outside of UPL	NIL
4e	Number of active and alive dumps.	3	3	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	DUMPS ARE ACTIVE	DUMPS ARE ACTIVE	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	THE MINING IS DONE AS PER PLAN .

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NOT PROPOSED	NOT APPLICABLE	NOT APPLICABLE
5b	Area under backfilling of mined out area	NO PROPOSAL	NIL.NOT APPLICABLE	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NO PROPOSAL	NOT APPLICABLE AS FOR NOW	NOT APPLICABLE AS FOR NOW
5d	Total area fully reclaimed and rehabilitated	NO PROPOSAL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	THE DUMPS ARE ACTIVE AND THE ULTIMATE PIT LIMIT IS NOT ACHIEVED.

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).	SUBMITTED	SUBMITTED	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.10	0.135	ALL IN PREPHERIAL AREA.
6d	No. of saplings planted during the year	100	135	NIL
6e	Cumulative no .of plants	400	135	NIL
6f	Any other method of rehabilitation	NO PROPOSAL	NOT APPLICABLE	
6g	Cost incurred on watch and care during the year	-	-	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NO PROPOSAL	NOT APPLICABLE	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 on backfilled area	NIL	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.	AS PLANNED THEY ARE UTILISING THE RAIN WATER FOR MINING PURPOSE.
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	NOT APPLICABLE	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	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	SURVEY WAS CONDUCTED AND DATA IS KEPT AT MINES.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	THE MINE IS DEVELOPED AS PER PLAN AND AREA OD DUMPING IS ALSO 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	MINE IS CLOSED DUE TO EC
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	MINES IS CLOSED DUE TO EC.
7c	Different grade of mineral sorted out at mines.	Cement grade and magnesia limestone	No mining operation during 2016-17	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	MINES IS CLOSED DUE TO EC CLEARANCES

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	There is no topsoil generated in the mines NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	AS PROPOSED	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NOT IN PROPOSAL	NOT APPLICABLE	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NO PROPOSAL	NOT APPLICABLE FOR THE TIME BEING.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 NOS PLANTATION	135	NIL, SATISFACTORY
8g	Survival rate	95%	95%	SATISFACTORY
8h	Water sprinkling on roads to control airborne dust	YES	MINES IS NOT IN OPERATION	WATER SPRINKLING IS DONE IN PLANTATION.
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	SUBMITTED	SUBMITTED	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	PROPOSED IN PLAN	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	-	NIL, AS PER PROPOSEAL
9d	Scrutiny of Annual return on afforestation	GIVEN	GIVEN	SATISFACTORY
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	SATISFACTORY
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK	NO STOCK	SATISFACTORY
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	GIVEN	MENTIONED	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN	AS GIVEN	NIL, SATISFACTORY

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