

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TCR/LST-50-Mds

Mine code : 38TMN14037

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR.BASKAR GEOLOGIST
Official with
Designation
- (iv) Date of Inspection : 20-SEP-17
- (v) Prev.inspection date : 16-JUN-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PERIYAKURICHI
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village : PERIYAKURICHI
- Taluka : SENDURAI
- Post office : PERIYAKURICHI
- Pin Code : 621719
- FAX No. : 04329-48248
- E-mail : icldal@eth.net
- Phone : 04329-48201 to 48207
- (f) **Police Station** : Sendurai
- (g) **First opening date** : 19-SEP-92
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : The India Cements Ltd.,
Coramandel Towers,93,Karpagam Avenue,
R.A.Puram,Chennai
3. (a) **Lease Number** : TMN1032
- (b) **Lease area** : 56.55
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 04-MAR-12
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.GOPINATH
 INDIA CEMENTS LTD CEMENT
 NAGAR PO. SENDURAI TK.
 PERAMBALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : N.JAYAPRAKASH,Full Time
 Qualification : B.E(MIN)
 Appointment/ : 01-MAR-00
 Termination date

Geologist

Name : K. JAYAPALAN,Full Time
 Qualification : B.Sc
 Appointment/ :
 Termination date

Geologist

Name : K.JAYABASAN,Full Time
 Qualification : M.SC(GEOLOGY)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09-MAY-02
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	15-FEB-07
	:	Renewal under rule 24 MCR1960	10-MAY-12
	:	MP review under 17(1) MCR 2016	23-NOV-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for the year 2016-17	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	-	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	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	1.46 Million tonnes	1.46 Million tonnes	NIL
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	Eastern side	Eastern side	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	NIL
2c	Stripping ratio or ore to OB ratio	1:1.03	1:0.92	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	142992	136400	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	SATISFACTORY
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	TWO	TWO	NIL
3b	Quantity of ROM mineral production proposed	357480	350463.92	NIL
3c	Recovery of sailable/usable mineral from ROM production	214488	214063.92	NIL
3d	Quantity of mineral reject generation	142992	136400	NIL
3e	Grade of mineral rejects generation and threshold value declared.	SiO ₂ >18.0%	SiO ₂ >18.0%	NIL
3f	Quantity of sub grade mineral generation.	-	-	-
3g	Grade of sub grade mineral generation	-	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO	NO	NIL
3j	Provision of drilling and blasting in mineral benches	YES	YES	NIL

3k	Provision of mining machineries in mineral benches	YES	YES	NIL
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	24.51.0 Hec.	24.15.0 Hec.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:1.03	1:0.92	NIL
3o	Total area put in use under different heads at the end of year	Area under mining- 24.51.0, Top soil-1.54.0, Overburden-12.94.5, Infrastructure -0.50.0, Roads-2.50.0, Protective bund-0.72.0.	Area under mining- 24.15.0, Top soil-1.54.0, Overburden-12.94.5, Infrastructure-0.50.0, Roads-2.50.0, Protective bund-0.72.0.	AS PER PLAN
3p	Production of ROM mineral during the last five year period as applicable	" 2012-13=353768 Ts 2013-14=374680 Ts 2014-15 =373580 Ts 2015-16 =374080 Ts 2016-17=357480 Ts Total =1833588 Ts"	" 2012-13 =292459.20 Ts 2013-14=323272.42 Ts 2014-15 =311917.84 Ts 2015-16=299738.05 Ts 2016-17=350463.92 Ts Total =1577851.43 Ts"	WITHIN LIMIT
3q	General remarks of inspecting officers on method of mining etc.	-	-	SATISFACTORY

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES	YES	NIL
4b	Location of topsoil, OB and mineral reject dumps	Western side of ML	As per proposal, WEST SIDE OF THE LEASE	NIL
4c	Number of dumps within lease area and outside of lease area	Four Dumps within ML, &Back filled	Four Dumps within ML, &Back filled	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out site of UPL	Out site of UPL	NIL
4e	Number of active and alive dumps.	Nil & Four	Nil & Four	NIL
4f	Number of dead dumps.	4	4	-
4g	Number of dumps established.	3	3	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain -Yes	Garland drain Made	nil
4i	Length of Retaining wall or garland drain all along dumps	nil	nil	nil
4j	Number of settling ponds	nil	nil	nil
4k	Specific comments of inspecting officer on waste dump management	-	-	satisfactory

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.	Back filled inMined out area	Back filled inMined out area as per proposal	-

5b	Area under backfilling of mined out area	12.94.5 ha	12.94.5ha	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no	no	nil
5d	Total area fully reclaimed and rehabilitated	8.0 ha	7.20ha	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	satisfactory

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	Yes, submitted on 30.06.17 to IBM	NIL
6b	Area available for rehabilitation (ha) .	1.09.5 HA	1.10.0HA	NIL
6c	afforestation done (ha).	-	0.45.5 HA	NIL
6d	No. of saplings planted during the year	-	500 NOS	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	-	0.63 LACS	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	380*25*17MTR	110*100*18 MTR	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.09.5HA	1.10.0HA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	-	500NOS	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NO	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	QUARTERLY MONITORED	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES	YES	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	NIL
7c	Different grade of mineral sorted out at mines.	YES	YES	NIL
7d	Any beneficiation process at mines	Screening by Mobile screen	Screening by Mobile screen	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	-WORKS CARRIED OUT AS PER PLAN-SATISFACTORY

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No topsoil removal for 2016-17	NIL
8b	Concurrent use or storage of topsoil	No Proposal	No Proposal	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	NA
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	PLANTATION DONE (500 SAPLINGS)	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WATER SPRINKLING IS BEING DONE.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED IN TIME	SUBMITTED	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	NOT APPOINTED	VIOLATION GIVEN
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	GIVEN	AS GIVEN	NIL
9d	Scrutiny of Annual return on afforestation	PROVIDED	AS GIVEN	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	YES GIVEN	OK	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK AT MINES, GIVEN IN AR	NO STOCK AT MINES	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	GIVEN	IT IS CAPTIVE MINE PRODUCTION COST GIVEN	NIL
9h	Scrutiny of Annual return on fixed assets	GIVEN	AS GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN	DEPLOYED AS 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