

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/SLM/LST-11-MDS

Mine code : 38TMN11111

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. M. Palani Kumaresan, G.M (Mines)
Official with
Designation
- (iv) Date of Inspection : 20/11/2020
- (v) Prev.inspection date : 04/02/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VEERACHIPALAYAM(PR.878)**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : SALEM
- Village : VEERACHIPALAYAM
- Taluka : SANKARI
- Post office : SANKARI WEST
- Pin Code : 637303
- FAX No. : 04283-40051
- E-mail : skdmines@indiacements.co.in
- Phone : 0856-73750
- (f) Police Station : KOMARAPALAYAM
- (g) First opening date : 18/02/1991
- (h) Weekly day of rest : SUN
2. Address for : M/S INDIA CEMENTS LTD
correspondance ANNA SALAI,
VHENNAI -600 002.
3. (a) Lease Number : TMN0058
- (b) Lease area : 75.58
- (c) Period of lease : 20
- (d) Date of Expiry : 24/07/1989
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 :

Mining Engineer

Name : Mr. Infant Jerome, Full Time
 Qualification : B.E MINING
 Appointment/ : 01/04/2018
 Termination date

Geologist

Name : Mr. Bangaru Vinod Kumar, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 01/04/2018
 Termination date

Manager

Name : G.Rajesh, B.E
 Qualification : B.E MINING
 Appointment/ : 21/05/2018
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22/03/1999
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	18/10/2012
	:	MP modif under MCR 1960	22/03/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Further exploration is required in Alathur block to bring the entire area to G-1 Level
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Further exploration is required in Alathur block to bring the entire area to G-1 Level
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	Further exploration is required in Alathur block to bring the entire area to G-1 Level
1e	Balance reserve as on 01/04/20	-	3.30Million Tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Further exploration is required in Alathur block to bring the entire area to G-1 Level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern direction of ML area E/W 806760-807200 N/S 1269740-1269920	Northern direction of ML area E/W 806760-807200 N/S 1269740-1269920	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	No top soil bench encountered

2c	Stripping ratio or ore to OB ratio	1:1.05	1:0.94	Within limit
2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil encountered
2e	Quantity of overburden generation in m3	2,83,900 Te (Interstitial Rejects + Development)	2,13,426 Te (Interstitial Rejects + Development)	Within limit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	As proposed
3b	Quantity of ROM mineral production proposed	4,48,875 te	3,77,507 te	Within limit
3c	Recovery of sailable/usable mineral from ROM production	2,69,325 te (60% of ROM)	2,26,504 te (60% of ROM)	Within limit
3d	Quantity of mineral reject generation	2,83,900 Te (Interstitial Rejects + Development)	2,13,426 Te (Interstitial Rejects + Development)	Within limit
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	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting proposed	Drilling & Blasting carried out	As per proposal
3k	Provision of mining machineries in mineral benches	Tamrock-2nos Ex-600-1no Ex210 with breaker-1no Tata JD315laoder-1 no Front end loader-1no Ex210 -1 no PC-200 1 no Dozer-1no Tipper-11no	Tamrock-2nos Ex-600-1no Ex210 with breaker-1no Tata JD315laoder-1 no Front end loader-1no Ex210 -1 no PC-200 1 no Dozer-1no Tipper-11no	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Ore- 7 m OB/Waste-8 m	Ore- 7 m OB/Waste-8 m	As proposed
3m	Total area covered under excavation/pits	32.61Ha	32.61Ha	As proposed
3n	Ore to OB ratio for the pit/mine during the year.	1:1.05	1:0.94	Within limit
3o	Total area put in use under different heads at the end of year	Mining-32.61Ha Dump- 3.90 Road&Infrastructure - 0.34 Plantation - 0.2Ha Non mining- 38.65.5	Mining-32.61Ha Dump- 4.75Ha Road & Infrastructure - 0.34Ha Plantation - 0.15Ha Non mining- 37.85.5Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17 449028 2017-18 449875 2018-19 449650 2019-20 448875 2020-21 450000 (till Oct 2020)	2016-17 449550 2017-18 363740 2018-19 355179 2019-20 377507 2020-21 166733 (till Oct 2020)	Within limits

3q General remarks - - Satisfactory
of inspecting
officers on
method of mining
etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil envisaged during the year.	No topsoil encountered/generated.	Only waste dumping carried out
4b	Location of topsoil, OB and mineral reject dumps	Waste dump near Alathur Block E 803792 N 1270491 (R.L 260)	Near Alathur Block E 803792 N 1270491 (R.L 260)	As proposed
4c	Number of dumps within lease area and outside of lease area	01 (Within Lease)	01 (Within Lease)	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As proposed
4e	Number of active and alive dumps.	01	01	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	1(outside lease)	1(outside lease)	Very Old Dump
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	As proposed
4i	Length of Retaining wall or garland drain all along dumps	Nil	25m	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.	Backfilling not proposed	Bacfilling not carried out	Rain-Water Harvesting / Ground-Water Recharge pits proposed to be left after Conceptual Plan Period
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	No Top Soil envisaged/generated in plan period
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	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 in time
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.2 ha	0.15 Ha	Due to scarcity of water
6d	No. of saplings planted during the year	400 nos	182 nos	Due to scarcity of water
6e	Cumulative no .of plants	1200 nos	1277 nos	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil

6g	Cost incurred on watch and care during the year	Rs 44,000/-	Rs 22,000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Water Reservoir proposed to be made after exhaustion of mineral
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	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	Carried out	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	269325 te Dispatch	226504 Dispatch	Less production due to less market demand
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines .	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil envisaged	No topsoil encountered	Nil
8b	Concurrent use or storage of topsoil	No topsoil envisaged	No topsoil generated	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only waste dumping proposed	Only waste dumping carried out	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Water Reservoir proposed to be left at the end of mine life
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Restoration to begin after exhaustion of mineral
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Neem, Jujibi, Tamarind, Sembarthi, Nandiyavattam, Badam, Pooarasan	Neem, Jujibi, Tamarind, Sembarthi, Nandiyavattam, Badam, Pooarasan	Nil
8g	Survival rate	-	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Water Sprinkler deployed
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	Given	AR Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 3.	Manager G.Rajesh Mining Engineer in charge Infant Jerome Geologist in charge Bangaru Vinod Kumar	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl. 12	Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 32.610 32.610 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 4.750 4.750 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.640 0.640 (vi) Other Purpose (NON MINING AREA) 0.000 37.705 37.705 (vii) Work done under progressive mine closure plan d	Nil
9d	Scrutiny of Annual return on afforestation during the year	Given in Part V, Sec 4 - Mining Operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 182 0 (ii) Survival rate in percentage 90.00 0	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4. Mineral Rejects for Limestone	4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part V, Sl. 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 226504.220 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2, 5 & Part VII	Ex-Mine Price & Cost of Production - Rs 531.91	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II A (Capital Structure)	Net Closing Total Assets: Rs 5,11,70,343/-	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) ROCK DRILL (NON-ELEC.) 36.000 MM 2 Non Electrical Opencast OTHER HEM MACHINERY 1.600 1 Non Electrical Opencast OTHER HEM MACHINERY 0.900 1 Non Electrical Opencast OTHER HEM MACHINERY 0.900 1 Non Electrical Opencast BACK HOE 1.000 CUM 1 Non Electrical Opencast FRONT END LOADER 1.700 CUM 1 Non Electrical Opencast DOZER 178.000 HP 1 Non Electrical Opencast TIPPER 19.000 C	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 :

(Matiul Islam)

Indian Bureau of Mines