

**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 : **K08**) **G.SORNADURAI KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. Natarajan, GM-Mines
Official with
Designation
- (iv) Date of Inspection : 25/11/2023
- (v) Prev.inspection date : 13/11/2021

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 : Lakshmi Aparna Sreekumar
 M/S India Cements Ltd.,
 827,Anna salai,DHUN
 Building Chennai CHENNAI
 CITY TAMIL NADU
 Phone:
 FAX :

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

Mining Engineer

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

Geologist

Name : vinithkannan,Full Time
 Qualification : MSC(Geo)
 Appointment/ : 10/01/2022
 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
	:	MP modif under 17(3) MCR 2016	08/01/2021
	:	MP review under 17(1) MCR 2016	26/03/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	7 Boreholes has been proposed during 2022-2023.	No Boreholes has drilled during 2022-2023.	Violation has been issued under Rule 11(1).
1b	Exploration over lease area for geological axis 1 or 2	7 additional exploration was proposed during 2022-2023 in the lease area for Geological axis - 1.	No additional exploration was carried out in the lease area for Geological axis - 1 during 2022-2023.	Violation has been issued under Rule 11(1).
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed private exploration agencies	No Exploration during 2022-2023.	So far 37 boreholes have been drilled with 1000 meterage in the lease upto 2015-2016.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was 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	Limestone as on 01.04.2023 Proved Mineral Reserves (111) = 1461924 tons Feasibility Mineral Resources (211) = 4740000 tons Inferred Mineral Resources (333) = 2900000 tons	Limestone as on 01.04.2023 Proved Mineral Reserves (111) = 1726211 tons Feasibility Mineral Resources (211) = 4740000 tons Inferred Mineral Resources (333) = 2900000 tons	The available grade of Limestone in this lease area is Cement Grade.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Archean complex of peninsular gneiss.	The deposit consists of Granite Gneiss and Crystalline limestone intruded by younger granite.	Limestone is medium to coarse grained. More number of intrusions of pegmatite and quartz veins.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2022-2023, it is proposed to work on Veerachipalaya m & Alathur Block of Pit-1.	Development is carried out as per proposed area.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 1 bench, OB -3 bench & Minerals - 3 Benches proposed.	OB & Mineral benches are formed as per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 1.95	1 : 0.60	Due to less development quantity the Stripping Ratio is less.
2d	Quantity of topsoil generation in m3	There is proposal of 17355 cu.m of Topsoil generation during 2022-2023	16800 cu.m of topsoil has generated during 2022-2023	Nil
2e	Quantity of overburden generation in m3	There is proposal of 102375 cu.m of OB generation during 2022-2023	63688 cu.m of OB has been generated during 2022-2023.	Violation has been issued under Rule 11(1).
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 Veerachipalaya m & Alathur Block of Pit-1.	16800 cu.m of topsoil & 63688 cu.m of OB have been generated during 2022-2023.	Violation has been issued under Rule 11(1)

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	During 2022-2023, it is proposed to work on Veerachipalaya m & Alathur Block of Pit-1.	Productions are carried out as per proposal in Lease.	Nil

3b	Quantity of ROM mineral production proposed	The total target of Limestone production proposed was 269525 tons during 2022-2023.	Achieved Limestone Production is 264891 tons during 2022- 2023.	Nil
3c	Recovery of sailable/usable mineral from ROM production	50% Recovery	62% Recovery	Violation issued for not achieving the Mineral Rejects during 2022-23
3d	Quantity of mineral reject generation	There is proposal of 269525 tons of Mineral Reject generation during 2022-2023 is 269525 tons.	No Mineral Reject generation during 2022-2023 has shown in annual return.	Violation has been issued under Rule 11(1).
3e	Grade of mineral rejects generation and threshold value declared.	High silica is considered as mineral rejects.	High silica is considered as mineral rejects.	Nil
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation	Nil
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	Outside the lease area beneficiation plant is present.
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting are per proposal.	Drilling & Blasting are done as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Excavators Tippers Drill Dozer	As per proposal the machineries are there during inspection.	Available machinery are shown in Annual Returns

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-2023, Bench height of 10m was proposed in Mineral.	As per proposal benches are formed.	Nil
3m	Total area covered under excavation/pits	18.50 hect area is proposed for Pit during 2022-2023	18.50 hect areas are under Pit only.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.95	1 : 0.60	Due to less development quantity the Stripping Ratio is less.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 18.50 hect Dump = 6.41 hect	Land use Pattern as on 01.04.2023. Mines = 18.50 hect Dump = 6.41 hect	As per annual return & mining plan
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 539050 tons 2021-2022 = 539026 tons 2020-2021 = 450000 tons 2019-2020 = 448875 tons 2018-2019 = 449650 tons	2022-2023 = 424110 tons 2021-2022 = 389679 tons 2020-2021 = 345494 tons 2019-2020 = 377507 tons 2018-2019 = 355179 tons	As per annual returns
3q	General remarks of inspecting officers on method of mining etc.	During 2022-2023, it is proposed to work on Veerachipalaya m & Alathur Block of Pit-1.	Achieved ROM Production is 424110 tons during 2022- 2023 against proposal of 539050 tons.	Violation issued for not achieving the Mineral Rejects during 2022-23

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is proposal for separate dumping of Topsoil & OB during 2022-2023.	As per proposal the dumping was carried out during 2022-2023.	Nil
4b	Location of topsoil, OB and mineral reject dumps	It is proposed to advance the existing dumps during 2022-2023 in Dump-4 & 3.	As per proposal the dumping was carried out during 2022-2023.	Proposed Existing dumps are located on Alathur block of lease area.
4c	Number of dumps within lease area and outside of lease area	Lease area = 5 Non Lease area = Nil	Lease area = 5 Non Lease area = Nil	Existing dump is located on Alathur & Veerachipalayam Block
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	Active Dump= 3 Alive Dump = 2	Active Dump= 3 Alive Dump = 2	Nil
4f	Number of dead dumps.	No Proposal	Nil	Nil
4g	Number of dumps established.	No Dumps have been established.	No Dumps have been established.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	There is proposal for separate dumping of Topsoil & OB during 2022-2023.	It is proposed to advance the existing dumps during 2022-2023 in Dump-4 & 3.	Existing dump is located on Alathur & Veerachipalayam Block

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.	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	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
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.	No backfilling has done during 2022-2023.

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).	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	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	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 on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
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	100 saplings proposed in lease boundary & dumps for 2022-2023	Total 110 saplings has achieved during 2022-2023 along dump and lease boundary.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.10 hect in dump area and lease boundary during 2022-2023	0.10 hect achieved in dump area and lease boundary during 2022-2023	Cumulatively 12473 saplings have planted upto 2022-2023.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green Belt development along 7.5m safety barrier and dump area.	Plantation has been done as per proposal along the safety barrier and dump area	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through Government as well as private agency.	Lessee is conducting Environmental monitoring and all are within permissible limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	110 saplings have been planted against proposed 100 saplings for 2022-2023.	Cumulatively 12473 saplings have planted upto 2022-2023.	Plantation has been done as per proposal along the safety barrier and dump area

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of Limestone production proposed was 269525 tons during 2022-2023.	Achieved Limestone Production is 264897 tons during 2022- 2023.	Proposed ROM in 539050 tons & achieved ROM are 424110 tons.
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.	No Grade wise sorting	The available grade of Limestone in this lease area is cement grade.
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area varies from 35% CaO.	The Limestone of the lease area is 35% CaO	Nil
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Achieved Limestone Production is 264897 tons during 2022-2023 against proposal of 269525 tons.	Achieved ROM Production is 424110 tons during 2022- 2023 against proposal of 539050 tons.	The available grade of Limestone in this lease area is cement grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	17355 cu.m of topsoil is Proposed to generate during 2022-2023	16800 cu.m of topsoil has generated during 2022-2023.	Nil
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is proposed to advance the existing dumps during 2022-2023 in Dump-4 & 3.	As per proposal the dumping was carried out during 2022-2023.	Proposed Existing dumps are located on Alathur block of lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	The mine was not worked upto the proved depth and no restoring the land to its original use were proposed during 2022-2023.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 saplings proposed in lease boundary & dumps for 2022-2023	Total 110 saplings has achieved during 2022-2023 along dump and lease boundary.	Plantation has been done as per proposal along the safety barrier and dump area
8g	Survival rate	No Proposal in the document.	80%	Cumulatively 12473 saplings have planted upto 2022-2023.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on roads side to control airborne dust.	During Inspection, water sprinkling on mines roads has been noticed.
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 = October 2023 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 & Mining Geologist has shown	During inspection Mining Engineer & Geologist are present.	Nil
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. Current Working = 18.50 hect Dump = 6.410 hect	Landuse Pattern is filled as per approved Mining Plan	Nil
9d	Scrutiny of Annual return on afforestation	Lessee has planted 110 saplings during 2022-2023.	Plantation has been done as per proposal along the safety barrier and dump area.	Cumulatively 12473 saplings have planted upto 2022-2023.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation during 2022-2023 has not shown in annual return.	High silica is considered as mineral rejects.	Violation has been issued under Rule 11(1).
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	Mine has produced 264891 tons of ROM and 264891 tons as dispatches during 2022-2023.	It is captive mine of M/s. The India Cements Ltd.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine price has shown	It is captive mine of M/s. The India Cements Ltd.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled	Nil
9k	Scrutiny of Annual return on mining machineries	Machineries details given	As available in field	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
MCDR17	Rule 11(1)	06/12/2023			
MCDR17	Rule 33	06/12/2023			

Date :

(G.SORNADURAI KANNAN)

Indian Bureau of Mines