

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. S RAMESH-AGM, RAJESH-MINE MANAGER
Official with
Designation
- (iv) Date of Inspection : 04-FEB-20
- (v) Prev.inspection date : 01-JUL-19

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-FEB-91
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S INDIA CEMENTS LTD
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-JUL-89
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-APR-18
 Termination date

Geologist

Name : Mr. Bangaru Vinod Kumar, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 01-APR-18
 Termination date

Manager

Name : G.Rajesh, B.E
 Qualification : B.E MINING
 Appointment/ : 21-MAY-18
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-MAR-99
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	18-OCT-12
	:	MP modif under MCR 1960	22-MAR-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Mine is fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Mine is fully explored under G1 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	MINE FULLY EXPLORED.
1e	Balance reserve as on 01/04/20	-	3.52 Million Tonnes	AS PER MINE PLAN.
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	N 1269515 to 1270010 (RL 240) E 804010 to 804275 (RL 185)	N 1269515 to 1270010 (RL 240) N 804060 to 804275 (RL 186)	AS PER PLAN.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil: Nil, OB:Nil Mineral with side burden: 10	Top soil: Nil, OB:Nil Mineral with side burden: 10	No separate benches for topsoil and OB-as this deposit is formed by many number of parallel bands exposed at top striking from east to west and dipping in North direction
2c	Stripping ratio or ore to OB ratio	1:1.12	1:1.28	The generation is reject is slightly higher than the estimated.

2d	Quantity of topsoil generation in m3	NIL	NA	NIL
2e	Quantity of overburden generation in m3	179860	142071	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	1	1	AS PER PLAN
3b	Quantity of ROM mineral production proposed	2014-15 = 283750 2015-16 = 231500 2016-17=449028 2017-18=449875 2018-19=449650 2019-20=448875	2014-15 = 198795 2015-16 = 231450 2016-17 = 449550 2017-18=363740 2018-19=355179 2019-20=75990*	ALL WITHIN LIMIT
3c	Recovery of sailable/usable mineral from ROM production	2018-19 = 269790tns	2018-19= 213107tns	AS PER PLAN WITHIN LIMIT
3d	Quantity of mineral reject generation	NIL	NA	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised method of mining	mechanised method of mining adopted	as per plan

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	yes	drilling and blasting is being done	nil
3k	Provision of mining machineries in mineral benches	yes 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 are used	as per plan.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Height of the bench Ore- 7 m OB/Waste-8 m	Yes Height of the bench Ore- 7 m OB/Waste-8 m	as per plan
3m	Total area covered under excavation/pits	32.61Ha	32.61Ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.1	1:1.1	as per plan
3o	Total area put in use under different heads at the end of year	Mining-32.61Ha Dump- 3.90 Road&Infrastru- cture - 0.34 Platation - 0.2Ha Non mining- 38.65.5	Mining-32.61Ha Dump- 4.35Ha & Infrastructure - 0.34Ha Platation - 0.10Ha Non mining- 38.30.5Ha	nil Road

3p	Production of ROM mineral during the last five year period as applicable	2014-15 283750 2015-16 231500 2016-17 449028 2017-18 449875 2018-19 449650	2014-15 198795 2015-16 231450 2016-17 449550 2017-18 363740 2018-19 355179		all years within limit
3q	General remarks of inspecting officers on method of mining etc.	-	-		satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for reject only	Separate dumping for reject only as no top soil available.	nil
4b	Location of topsoil, OB and mineral reject dumps	At Alathur Block N 1270350 to 1270415 (RL 258) E 803760 to 803830 (RL 273)	At Alathur Block N 1270350 to 1270450(RL 258) E 803780 to 803830 (RL 270)	as per plan.
4c	Number of dumps within lease area and outside of lease area	01	01	Within the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per mining plan	As per mining plan outside UPL	nil
4e	Number of active and alive dumps.	1	1	nil
4f	Number of dead dumps.	na	na	nil
4g	Number of dumps established.	1(outside lease)	1	Very old dump
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	nil
4i	Length of Retaining wall or garland drain all along dumps	nil	25 mtr	nil

4j	Number of settling ponds	nil	nil	nil, water is accumulated at mine pit.
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.	NA	NIL	NIL
5b	Area under backfilling of mined out area	NA	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NIL	NIL

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 time.	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil

6c	afforestation done (ha).	0.20 Ha	0.10 Ha	Due to scarcity of water
6d	No. of saplings planted during the year	400	115	Due to scarcity of water
6e	Cumulative no .of plants	1200	1095	upto 2018-19
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	44000	22000	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NIL	NO AREA AVAILABLE FOR RECLAMATION OR BACKFILLING.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NO WASTE LAND AVAILABLE	NIL

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NIL	NIL, AS NO WASTE LAND AVAILABLE
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	ABC CONSULTANCY	NIL
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	269790	213107	For 2018-19
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	AS PER PLAN.
7c	Different grade of mineral sorted out at mines.	NA	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
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil available	No topsoil	nil
8b	Concurrent use or storage of topsoil	na	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No	as no ob and rejects are removed seperately the ob/rejects are dumped at one dump.	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	na	nil	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na	nil
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%	85%	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	nil	nil	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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	Mr. Infant Jerome (Mining Engineer); Bangaru Vinod Kumar (Geologist); G. Rajesh (Manager Mines	Present at the time of inspection	nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details as per Mining plan	details provided	nil
9d	Scrutiny of Annual return on afforestation	400 was planned and 115 was planted.	details are provided.	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	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	Ex. Mine price=Rs 429 Per tonne Delivery cost=Rs581.60 Per tonne	Ex. Mine price=Rs 429 Per tonne Delivery cost=Rs581.60 Per tonne are provided in AR.	
9h	Scrutiny of Annual return on fixed assets	Fixed assets=Rs.3.9 Crores	Fixed assets=Rs.3.9 Crores are provided.	nil

9k	Scrutiny of Annual return on mining machineries	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	nil
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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