

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-9/MDS.

**Mine code :** 38TMN38025

- (i) Name of the Inspecting : **J103** ) **V. Jaya Krishna Babu**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : S.Subramanian, Managing Director & M.Muthukaruppan, V  
Official with  
Designation
- (iv) Date of Inspection : 07/11/2019
- (v) Prev.inspection date : 06/10/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **CHINNAPATTAKADU(4.93HA)**
- (b) **Registration NO.** : **IBM/953/2011.**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : ARIYALUR  
Village : CHINNAPATTAKADU  
Taluka : ARIYALUR  
Post office : CHINNAPATTAKADU  
Pin Code :  
FAX No. :  
E-mail : dcpmaruthi@sity.co  
Phone : 0431-2670364,2670164.
- (f) Police Station :
- (g) First opening date : 01/10/2011
- (h) Weekly day of rest : SUN
2. Address for : 69,GANAPATHY NAGAR  
correspondance TIRUVANAIKOIL  
TRICHY-621 112.
3. (a) Lease Number : TMN1567
- (b) Lease area : 4.93
- (c) Period of lease : 30
- (d) Date of Expiry : 13/09/2041
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : DHANDAPANI CEMENTS (P) LTD  
 69, GANAPATHY NAGAR  
 TIRUVANAIKOIL TRICHY  
 TIRUCHIRAPALLI TAMIL NADU  
 Phone:0431-2670042 CELL 9842410040  
 FAX :0431-2670364,2670164,2670224 &2670045

Owner : M/S. DHANDAPANI CEMENT PVT. LTD  
 KARIAMANICKAM ROAD S.  
 PUDUR-SAMAYAPURAM- TRICHY  
 ARIYALUR TAMIL NADU  
 Phone:  
 FAX :

Agent : S.Subramanian  
 Dhandapani cements p.Ltd  
 69,Ganapathy Nagar  
 Tiruvanai koil,Trichy  
 ARIYALUR TAMIL NADU  
 Phone:  
 FAX :

## Mining Engineer

Name : S.Kalaiyaran,Full Time  
 Qualification : BE(Mining)  
 Appointment/ : 22/01/2020  
 Termination date

## Geologist

Name : S.SUBRAMANIAM,Full Time  
 Qualification : MSC(GEOLOGY)  
 Appointment/ : 14/09/2011  
 Termination date

## Manager

Name : T.Kumaravel  
 Qualification : Dip.Mining,FMCC  
 Appointment/ : 25/02/2015  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 16/03/2011  
 Mining Scheme rule 12 MCDR1988 03/03/2016

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Already 4 no"s of DTH bore holes drilled up to a depth of 10m
1b	Exploration over lease area for geological axis 1 or 2	NIL	The ML area was explored for G1 Level.	Area already explored by drilling bore holes.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposed during the current plan period.	NIL	The lessee spent Rs.16000/- for drilling 4 DTH bore holes earlier.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Area already explored.
1e	Balance reserve as on 01/04/20	NIL	Balanced mineable reserves as on 01/04/2019 is 418300 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	North Eastren part of the lease area ,between2350N-5200E and 2450N-5200E.	As per proposals .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One Top soil bench and two mineral benches proposed.	Separate benches are maintained for Topsoil and Mineral.	NIL
2c	Stripping ratio or ore to OB ratio	1:0.2	1:0	NIL
2d	Quantity of topsoil generation in m3	14892 tonnes	NIL	No Top soil generation due to lack of development work.

2e	Quantity of overburden generation in m3	NIL	NIL	NIL
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	One	One	NIL
3b	Quantity of ROM mineral production proposed	ROM production of 75900 tonnes during 2018-19 and 71540 tonnes during 2019-20	58670 tonnes of production during 2018-19 and 22552 tonnes up to oct.2019	Due to low offtake of the plant.
3c	Recovery of sailable/usable mineral from ROM production	85%	85%	NIL
3d	Quantity of mineral reject generation	NIL	NIL	No mineral reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub grade mineral generation. Low grade mineral is used with blending
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mannual.	Manual	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	Jack hammer drilling and loaded into trucks using shovels.	As per proposals.	NIL
3k	Provision of mining machineries in mineral benches	Yes.	Provisions made for deployment of machinery on mineral benches.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES.	Top soil bench 3 mts and mineral bench 5m.width of the bench is more than height of bench maintained.	NIL
3m	Total area covered under excavation/pits	2.16 HC.	2.16 HC.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.2	1:0	NIL
3o	Total area put in use under different heads at the end of year			
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 125729 tonnes 2015-16 - 35012 " 2016-17 - 72410 " 2017-18 - 80060 " 2018-19 - 75900 " 2019-20 - 71540 " "	2014-15 - 106870 tonnes 2015-16 - 29760 " 2016-17 - NIL 2017-18 - 5030 " 2018-19 - 58670 " 2019-20 - 22552 " (upto sep..2019)	NIL
3q	General remarks of inspecting officers on method of mining etc.	—	—	Satisfactory.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes,Proposed.	Separate dumps for Top soil and Low grade Limestone were made. Top soil is already used for plantation purpose.	Top soil used for graland plantation and near roads.
4b	Location of topsoil, OB and mineral reject dumps	North westren side .	As per proposal. During inspection no top soil dump as already utilised , low grade mineral dump in small heap.	NIL
4c	Number of dumps within lease area and outside of lease area	one	one low grade mineral dump.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL.	As per proposal.	NIL
4e	Number of active and alive dumps.	one dump.	one dump	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.	NIL	NIL	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.	No back filling proposal during current plan period.	No part of workings matured for back filling.	Mine is in active state.

5b	Area under backfilling of mined out area	No proposal.	NIL	Mine workings are not matured for back filling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes.	Yes, top soil used for garland plantation.	NIL
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).	submitted.	submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.02	0.02	NIL
6d	No. of saplings planted during the year	15	15	Plantation done out side M1 area in near by village . Around 50 saplings planted.
6e	Cumulative no .of plants	NIL	so for 200 saplings planted, but due to soil condition only 65% survival rate.	NIL.
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	2 Lakhs.	2 Lakhs	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	NIL	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	NIL	NIL	NIL
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)	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)	Yes.	Environmental monitoring work done by M/S Ensyscon Environmental Lab and reports submitted.	All parameters are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Satisfactory. The mine workings are in active state and not matured for reclamation and rehabilitation work.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	75900 tonnes during 2018-19 and 71540 tonnes during 2019-20.	58670 tonnes during 2018-19 and 22552 tonnes during 2019-20 (upto sep.2019)	Production on lower side due to low offtake of cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mannual.	mannual.	NIL.
7c	Different grade of mineral sorted out at mines.	Cement grade Limestone and low grade Limestone.	Cement grade Limestone and low grade Limestone.	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)	Yes.	Top soil is Red gravel upto 1m depth, removed separately and utilised.	NIL

8b	Concurrent use or storage of topsoil	Yes. Top soil is used for plantation purpose.	Top soil is used for plantation purpose.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed.	Low grade mineral dump maintained. Top soil utilised.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Pits are not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 Neem saplings each year proposed during the years 2018-19 and 2019-20	Plantation carried out as per proposal.	Around 200 sapling planted so far with a survival rate of 60%.
8g	Survival rate	70%	65%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes. proposal given.	water sprinkling done on haul roads.	NIL.
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
9a	Status of submission of Monthly and Annual returns	Submitted.	AR 2018-19 and monthly returns upto date submitted.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished.	Information given.	Mines manager advised reg. furnishing details in AR and MR.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Information furnished .	NIL
9d	Scrutiny of Annual return on afforestation	Details furnished.	15 no of trees planted.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information given.	Given.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished.	Given.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Information verified.	NIL
9h	Scrutiny of Annual return on fixed assets	Given.	Furnished.	NIL
9k	Scrutiny of Annual return on mining machineries	Details furnished.	Information given. Shovel-1, Rock breaker-1, Tippers -5.	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 :****(V. Jaya Krishna Babu)**

Indian Bureau of Mines