

CC/PTK/DEE/2023-24/04 - 396  
19.01.2024



To  
O/o. District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
No.4/326, Trichy main road,  
Near by RTO office, Keelapalur Post,  
Ariyalur District – 621 707.

**Sub:** CFO Compliance report for 2023-24 - Reg.

**Ref:** 1. Chettinad Cement Corporation Private Ltd, Periyathirukonam Lime Stone Mines - Air Consent Order No. 2004229421491 dt 28.01.2020 & Water Consent Order No. 2004129421491 Dt. 28.01.2020

2. Our File No.: ARY 0650 / Rcd Small

Sir,

With reference to the above consent order, we would like to submit our consent order compliance conditions report for Chettinad Cement Corporation Private Ltd Periyathirukonam Lime Stone Mines along with required Annexures for your kind perusal.

Kindly acknowledge the receipt of this letter.

Thanking you,

**For Chettinad Cement Corporation Private Limited**

  
**R.P. Muthiah**  
**Vice President [Works]**

Encl: Annexures

Ken.

**Chettinad Cement Corporation Private Limited**

Ariyalur Trichy Road, Keelapalur Post,  
Ariyalur Dist - 621707, Tamilnadu, India.

T + 91 4329 250009

F | 91 4329 250011, 250013

CIN : U93090TN1962PTC004947

Regd. Office : Chettinad Towers,  
603, Anna Salai, Chennai - 600 006.

T + 91 44 2829 2727, 42951800 (100 lines)

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www.chettinad.com

**Chettinad Cement Corporation Private Limited**

**Ariyalur Trichy Road, Keelapaluvur -621707**

**Ariyalur (Dt)**

**PERIYATHIRUKONAM LIMESTONE MINES (32.295 hectares)**

Compliance report for the conditions specified in the renewal consent Order  
2004229421491 Dated: 28.01.2020 under Air Act

| No. | Special Conditions  | Compliance Status  |
|-----|---|--|
| 1.0 | Mining of Limestone (174305 Tonnes) and Marl (26412 Tonnes) over an extent of 32.295 Hectares - 1st Year - 0.2007 MTPA  | Production quantity is compiling as per proposal only and is not exceeded. |
| 2.0 | Mining of Limestone (393097 Tonnes) and Marl (107258 Tonnes) over an extent of 32.295 Hectares – 2nd Year - 0.5004 MTPA |  |
| 3.0 | Mining of Limestone (429933 Tonnes) and Marl (69700 Tonnes) over an extent of 32.295 Hectares – 3rd Year - 0.4996 MTPA  |  |
| 4.0 | Mining of Limestone (398973 Tonnes) and Marl (99831 Tonnes) over an extent of 32.295 Hectares – 4th Year - 0.4988 MTPA  |  |
| 5.0 | Mining of Limestone (478094 Tonnes) and Marl (22170 Tonnes) over an extent of 32.295 Hectares – 5th Year - 0.5003 MTPA  |  |
| 6.0 | Mining of Limestone an extent of 32.295 hectares for the period of 5 years - 1874401 Tonnes                             | Provided Production quantity is not exceeded.                              |
| 7.0 | Mining of Marl an extent of 32.295 hectares for the period of 5 years - 325371 Tonnes                                   | Provided Production quantity is not exceeded.                              |

|      |   |   |
|------|---|---|
| 1.1  | By-Product Details  | No by product during Mining operations  |
| 1.2  | Intermediate Product Details  | No intermediate product during Mining operations  |
| 2    | This consent to operate is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/ control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained. | Condition noted   |
| 2.1  | Point source emission with stack  | No Stack in the Mining area.  |
| 2.11 | Fugitive or Noise Emission sources: Mines area and Haul Road  | Water spraying is being provided through a water tanker arrangement. (Annexure 01)  |
| 3a.  | The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder  | Complying the emission constituents within the tolerance limits.  |
| 3b.  | The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below  | Ambient air quality well within the tolerance limit. (Annexure 02)  |
| 3c.  | The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below: Limits in L.eq.-dB(A) Day Time 55 Night Time 45 in the Residential Area  | Ambient noise level well within the limit. (Annexure 03)  |
| 4    | All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above  | All units of the Air pollution control measures have been operated efficiently and continuously. Regular water sprinkling arrangements are being done to avoid the generation of fugitive dust while transportation (Annexure 01) |
| 5    | The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air  | Provided Production quantity will not be exceeded.We will not change any process without the permission of the board.   |

|   |  |   |
|---|--|---|
|   | pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.  |   |
| 6 | The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection   | No stack is installed hence not applicable.   |
| 7 | The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months /once in a year/periodically for the parameters as prescribed   | Complied. The samples of emission/air/noise levels are collected and analyzed for parameters as prescribed. Report enclosed. <b>(Annexure 04)</b> |
| 8 | Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition | All Emissions are well within the limit and regularly reported to concern authorities.  |
| 9 | The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in   | Conditions noted.   |

|            |   |  |
|------------|---|--|
|            | case of non-compliance of any order/directions issued.  |  |
| <b>No.</b> | <b>Additional Conditions</b>  | <b>Compliance Status</b>   |
| 1          | The unit shall operate and maintain the APC measures efficiently and continuously so as to bring the quality of emission to the AAQ/ Emission standards prescribed by the Board.  | Noted and conditions are being complied.   |
| 2          | The unit shall operate the water sprinklers effectively to suppress the dust emission during mining and vehicle movements   | Regular and Periodical water sprinkling on the haul roads carried out to arrest the dust generation during the movement of vehicles. <b>(Annexure 01)</b>  |
| 3          | The haul roads in the mines shall be adequately water sprayed using water tankers at regular intervals.   | Regular and Periodical water sprinkling on the haul roads carried out to arrest the dust generation during the movement of vehicles. <b>(Annexure 01)</b>  |
| 4          | The unit shall comply with all the conditions stipulated in the Environmental Clearance issued by State Environment Impact Assessment Authority Chennai vide Lr.No. SEIAATN/F.NO. 62883 /ALR/1(a)/ EC-4020/2019 dated 19/08/2019. | Complying all the conditions stipulated in the Environmental Clearance issued by SEIAA, Chennai. Six monthly EC compliance report being periodically submitted to the MoEFCC. Latest submitted date was 28.11.2023. <b>(Annexure-07)</b> |
| 5          | Thick green belt with native species shall be developed in the 50 m safety distance in the land area in the periphery.  | Thick green belt with native species like Pungan, Vembu, rain tree etc., have developed in the 50 m safety distance of the Mining lease area. <b>(Annexure 05)</b>   |

|   |  |   |
|---|--|---|
| 6 | Peripheral plantations shall be raised as wind belts to minimize the dry tailings being air-borne and to prevent the soil erosion.                                 | Thick Green belt with native species like Pungan ,Vembu,rain tree etc., have developed in the peripheral area plantation of the Mining lease area. <b>(Annexure 05)</b> |
| 7 | The unit shall ensure that transport vehicle shall be leak proof and properly covered with tarpaulin so as to prevent spillages which may generate air borne dust. | Limestone loaded vehicle will move from mines premises after it is covered with tarpaulin properly. <b>(Annexure 06)</b>  |

*M.R. Venkatesan*

M.R. Venkatesan

General Manager – Mines

*qmr*

**PERIYATHIRUKONAM LIMESTONE MINE [32.295 Ha]**

**Water spraying is being provided through a water tanker arrangement.**





PERIYATHIRUKONAM LIMESTONE MINE [32.295 Ha]

AAQ MONTIORING STATIONS at PTK Mines





# SMS LABS SERVICES PRIVATE LIMITED



## TEST REPORT

TC-6118

Page 2 of 2

Report Date : 22 Jul 2023

Report No. QEN-23070302-05 to 08

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Periyathirukonam LS Mines)  
Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur Dist-621707.  
Name : Air  
Sample Description : Ambient Air Quality – 24 hrs  
Sample Drawn by : Laboratory  
Sample procedure : IS 5182 Part V & Part XIV  
Relative Humidity : 54%

Sampling Date : 14 to 15 Jul 2023  
Sampling Start Time : 09.00 am to 09.45 am  
Sample received on : 18 Jul 2023  
Test Started on : 18 Jul 2023  
Test completed on : 22 Jul 2023  
Ambient Temperature : 35°C


### TEST RESULTS

| Sl.No | Parameters                                      | Test Method              | Unit              | NAAQ Norms | Periyathirukonam Village | Vellipiriniyam Village | IdayathanKudi Village | Munlyankurichi Village |
|-------|---|--------------------------|-------------------|------------|--------------------------|------------------------|-----------------------|------------------------|
| 1.    | Sulphur Dioxide as SO <sub>2</sub>              | IS 5182 (Part-2)         | µg/m <sup>3</sup> | 80         | 11.6                     | 9.1                    | 12.3                  | 8.6                    |
| 2.    | Nitrogen Dioxide as NO <sub>2</sub>             | IS 5182 (Part-6)         | µg/m <sup>3</sup> | 80         | 21.0                     | 18.6                   | 23.8                  | 19.9                   |
| 3.    | Particulate Matter(PM <sub>10</sub> )           | IS 5182 (Part-23)        | µg/m <sup>3</sup> | 100        | 61.8                     | 54.8                   | 59.1                  | 55.8                   |
| 4.    | Particulate Matter(PM <sub>2.5</sub> )          | IS 5182 (Part-24)        | µg/m <sup>3</sup> | 60         | 26.5                     | 27.3                   | 22.9                  | 26.1                   |
| 5.    | Ozone as O <sub>3</sub> (1hr)                   | IS 5182 (Part-9)         | µg/m <sup>3</sup> | 180        | BLQ (LOQ:20)             |                        |                       |                        |
| 6.    | Lead as Pb                                      | Compendium Method IO-3.4 | µg/m <sup>3</sup> | 1.0        | BLQ(LOQ :0.001)          |                        |                       |                        |
| 7.    | Carbon Monoxide as CO(8hrs)                     | IS 5182 (Part -10)       | mg/m <sup>3</sup> | 02         | BLQ (LOQ:1.14)           |                        |                       |                        |
| 8.    | Ammonia as NH <sub>3</sub>                      | IS 5182 (Part-25)        | µg/m <sup>3</sup> | 400        | BLQ (LOQ:20)             |                        |                       |                        |
| 9.    | Benzene (C <sub>6</sub> H <sub>6</sub> )        | SMSLA/GM/SOP/07          | µg/m <sup>3</sup> | 05         | BLQ(LOQ :1.0)            |                        |                       |                        |
| 10.   | Benzo (a) Pyrene (Bap) (Particulate Phase Only) | SMSLA/GBF/SOP/19         | ng/m <sup>3</sup> | 01         | BLQ(LOQ :0.05)           |                        |                       |                        |
| 11.   | Arsenic as As                                   | Compendium Method IO-3.4 | ng/m <sup>3</sup> | 06         | BLQ(LOQ :0.1)            |                        |                       |                        |
| 12.   | Nickel as Ni                                    | Compendium Method IO-3.4 | ng/m <sup>3</sup> | 20         | BLQ(LOQ :0.1)            |                        |                       |                        |

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

Conclusion: The above tested sample conforms the NAAQ standards for the above tested parameters.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

  
R. PRABHU  
Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The laboratory's responsibility under this report is limited to proven willful negligence and will in no case be more than the invoiced amount. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.

**PERIYATHIRUKONAM LIMESTONE MINE – NOISE LEVEL MONITORING**





## SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Report No : QEN-23070302-09

Page 1 of 1  
Report Date : 22 Jul 2023

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Periyathirukonam LS Mines)  
 Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keclapalur, Ariyalur Dist-621707.  
 Sample Description : Source Noise  
 Sample Procedure : IS 9989  
 Measurement Date : 14 Jul 2023

## TEST RESULTS

| Sl.No | Location               | Noise Level dB(A)             |      |      |                                 |      |      | The Tamil Nadu<br>Factories<br>Rules 1950 |
|-------|------------------------|-------------------------------|------|------|---------------------------------|------|------|---|
|       |                        | Day Time<br>(06.00-22.00 hrs) |      |      | Night Time<br>(22.00-06.00 hrs) |      |      |   |
|       |                        | Lmin                          | Lmax | Avg  | Lmin                            | Lmax | Avg  |   |
| 1     | Quarry Edge/View point | 62.6                          | 64.4 | 63.5 | 59.8                            | 60.7 | 60.3 | 85dB(A)                                   |
| 2     | Loading Area           | 63.8                          | 65.6 | 64.7 | 58.4                            | 62.3 | 60.4 |   |

Conclusion: The above tested sample conforms The Factories Rules 1950 standards for the above tested locations.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

*R. Prabu*  
 R. PRABHU  
 Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirunazhisai Via, Poonamallee Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Report No : QEN-23070302-10

Page 1 of 1  
Report Date : 22 Jul 2023


Customer Name : M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED (Periyathirukonam LS Mines)  
 Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur Dist-621707.  
 Sample Description : Ambient Noise (Day & Night)  
 Sample Procedure : IS 9989 Measurement Date : 14 Jul 2023

### TEST RESULTS

| S.N | Location                 | Noise Level dB(A) |      |      |            |      |      | CPCB Standards (Residential Area) For Noise in Leq dB(A) |                                 |
|-----|--------------------------|-------------------|------|------|------------|------|------|--|---------------------------------|
|     |                          | Day Time          |      |      | Night Time |      |      | Day Time<br>(06.00-22.00 hrs)                            | Night Time<br>(22.00-06.00 hrs) |
|     |                          | Lmin              | Lmax | Avg  | Lmin       | Lmax | Avg  |  |                                 |
| 1   | Periyathirukonam Village | 48.1              | 47.6 | 47.9 | 39.6       | 41.1 | 40.3 | 55   | 45                              |
| 2   | Vellipiringiyam Village  | 50.4              | 49.1 | 49.8 | 41.6       | 40.7 | 41.2 |  |                                 |

Conclusion: The above tested sample conforms the CPCB standards for the above tested locations.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

  
 R. PRABHU  
 Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124

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## Tamil Nadu Pollution Control Board

### Ambient Air Quality Survey Report

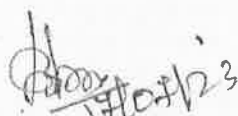
**Report No:29 /AAQS/2023-2024 Dated:17.07.2023**

- 1.Name and Address of the Industry : M/s.Chettinad Cements Corporation Private Limited,  
Periyathirukonam Limes Stone Mine,  
Periyathirukonam Village,  
Ariyalur TK,  
Ariyalur District.
- 2.Date of Survey : 13.07.2023
- 3.Duration of Survey : Eight Hours
- 4.Category : Red/Small
- 5.Consent Order No. : 2004229421491

|                                   |          |     |                                |      |     |
|-----------------------------------|----------|-----|--------------------------------|------|-----|
| <b>Ambient Temperature (°C)</b>   | Min      | Max | <b>Relative Humidity (%)</b>   | Min  | Max |
|                                   | 25       | 35  |                                | 44   | 89  |
| <b>Weather Condition</b>          | Cloudy   |     | <b>Rain Fall (mm)</b>          | Nil  |     |
| <b>Predominant Wind Direction</b> | SW to NE |     | <b>Mean Wind Speed (Km/hr)</b> | 10.3 |     |

| Sl. No | Location of Sampling Stations                         | From Source |           |                 | Pollutants in $\mu\text{g}/\text{m}^3$ |                 |                 |
|--------|---|-------------|-----------|-----------------|--|-----------------|-----------------|
|        |   | Dire.       | Dist. (m) | Ht. from gl (m) | PM <sub>10</sub>                       | SO <sub>2</sub> | NO <sub>2</sub> |
| 1.     | On the top of scaffolding near NE corner of the Mines | NE          | 275       | 2.0             | 80                                     | 14.5            | 17.1            |
| 2.     | On the top of scaffolding near SE corner of Mines     | SE          | 300       | 2.0             | 72                                     | 11.3            | 13.3            |
| 3.     | On top of scaffolding near SW corner of the Mines     | SW          | 250       | 2.0             | 68                                     | 8.2             | 10.8            |
| 4.     | On top of scaffolding near NW Corner of the Mines     | NW          | 350       | 2.0             | 72                                     | 5.6             | 8.9             |

  
 Environmental Scientist,

  
 Assistant Director,  
 AEL, TNPCB, Trichy-15.



**Tamil Nadu Pollution Control Board**  
**Ambient Noise Level Survey Report of Analysis**

**Report No: 29/AAQS/2023-2024 Dated:17.07.2023**

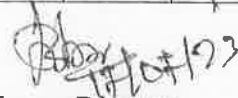
|                           |                         |   |                |     |
|---------------------------|-------------------------|---|----------------|-----|
| 1                         | Name of the Industry    | M/s.Chettinad Cements Corporation Private Limited,  |                |     |
| 2.                        | Address of the Industry | Periyathirukonam Limes Stone Mine,<br>Periyathirukonam Village,<br>Ariyalur TK,<br>Ariyalur District. |                |     |
| 3.                        | Date of Survey          | 13.07.2023  |                |     |
| 4.                        | Consent Order No.       | 2004229421491   |                |     |
| 5.                        | Category                | Red/Small   |                |     |
| Type of Survey            |                         | Ambient   | Time of Survey | Day |
| Meteorological Conditions |                         | Calm  |                |     |

**Logging Parameters**

|                  |                          |                        |                |
|------------------|--------------------------|------------------------|----------------|
| Instrument Used  | Casella                  | Serial No.             | 0499485        |
| Logging Interval | 10 Minutes in each Point | Measuring Range        | 50-110dB(A)    |
| Weighting        | "A"                      | Time Weighting         | Fast           |
| Sound Incidence  | Random                   | Time of Survey in Hrs. | 16.00 to 17.30 |

| SI No | Location                        | Duration (m) | Distance (m) | Direction | Sound Level -dB(A) |                  |                  |
|-------|---------------------------------|--------------|--------------|-----------|--------------------|------------------|------------------|
|       |                                 |              |              |           | L <sub>eq</sub>    | L <sub>Min</sub> | L <sub>Max</sub> |
| 1.    | Near North East corner of mines | 10           | 275          | NE        | 50.7               | 46.3             | 56.1             |
| 2.    | Near South East corner of mines | 10           | 300          | SE        | 45.1               | 42.5             | 51.2             |
| 3.    | Near South side of the mines    | 10           | 250          | S         | 47.3               | 38.0             | 55.0             |
| 4.    | Near SW corner of the mines     | 10           | 250          | SW        | 44.0               | 39.7             | 53.4             |
| 5.    | Near NW corner of mines         | 10           | 350          | NW        | 41.5               | 35.6             | 50.3             |

  
Environmental Scientist,

  
Assistant Director,  
AEL, TNPCB, Trichy-15.

### GREEN BELT DEVELOPMENT





**Afforestation in Lease Boundary Periphery**





**PERIYATHIRUKONAM LIMESTONE MINE [32.295 Ha]**

**PERIYATHIRUKONAM LIMESTONE MINE – TIPPER COVERED WITH  
TARPAULIN**





Chettinad Cement/ Periyathirukonam Mine /Environment Statement/2022-23/239

26<sup>th</sup> Sep 2023

To  
The Member Secretary  
Tamil Nadu Pollution Control Board,  
76, Mount Salai, Guindy,  
Chennai - 600 032.

Respected Sir,

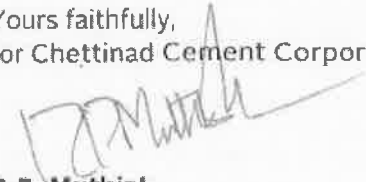
Sub : Submission of Environmental Statement in "Form V" under Environment (Protection) Rules, 1986 for the year 2022-23 - Chettinad Cement Corporation Private Limited -Periyathirukonam Limestone Mine, Periyathirukonam Village, Ariyalur District, Tamilnadu

We submit herewith the "Environmental Statement" pertaining to our Periyathirukonam Limestone Mine in the prescribed format (Form V) under Environment (Protection) Rules, 1986, for the year 2022-23

Kindly acknowledge the receipt.

Thanking you

Yours faithfully,  
for Chettinad Cement Corporation Private Limited

  
R.P. Muthiah,  
Vice President (Works)

Copy to :

1. Scientist 'E' & In-charge, CPCB, Bangalore
2. Director, Regional Office, MoEF & CC, Chennai
3. JCEE, TNPCB, Trichy
4. DEE, TNPCB, Ariyalur

**Chettinad Cement Corporation Private Limited**  
Ariyalur Trichy Road, Keeiapalur Post,  
Ariyalur Dist - 621707, Tamilnadu, India.  
T + 91 4329 250009  
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947  
Regd. Office : Chettinad Towers,  
603, Anna Salai, Chennai - 600 006.  
T + 91 44 2829 2727, 42951800 (100 lines)  
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com  
www.chettinad.com

FORM - V

[See Rule 14 of Environment (Protection) Rules, 1986]

Environmental Statement for the Financial Year ending the 31<sup>st</sup> March 2023

PART - A

- (i) Name and address of the owner / occupier of the industry operation or process : **R.P.Muthiah,**  
Vice President ( Works)  
Chettinad Cement Corporation Private Limited  
Periyathirukonam Limestone Mine  
Periyathirukonam Village, Ariyalur District  
Tamilnadu  
Pincode :621707
- (ii) Industry category  
Primary (STC Code) : Red Small  
Secondary (SIC Code) : 1035- Mining and Ore beneficiation
- (iii) Production Capacity : 0.5003 million ton per annum (mtpa)
- (iv) Year of Establishment : 2019
- (v) Date of Last Environment Statement submitted : 27.09.2022

PART - B

Water and Raw Material Consumption

(I) Water Consumption (m<sup>3</sup>/day)

|                  |   |                |
|------------------|---|----------------|
| Dust Suppression | : | 13.7           |
| Cooling          | : | Not Applicable |
| Greenbelt        | : | 3.5            |
| Domestic         | : | 1.5            |

| Name of the Product |           | *Process Water Consumption (m <sup>3</sup> ) per unit (metric ton) of Product Output |   |
|---------------------|-----------|--|---|
|                     |           | During the Previous Financial Year (2021-2022)                                       | During the Current Financial Year (2022-2023) |
| (1)                 | Limestone | 0.012  | 0.015   |

\*Water used for Dust Suppression & Greenbelt shown as process water consumption

(ii) Raw Material Consumption

| Name of the Raw Material | Name of the Product | Consumption of Raw Material (metric ton) per unit (metric ton) of Output |   |    |
|--------------------------|---------------------|--|---|----|
|                          |                     | During the Previous Financial Year (2021-2022)                           | During the Current Financial Year (2022-2023) |    |
| (1)                      | None #              | Limestone  | --  | -- |

# As the production activity involves only mining, no raw material is required

PART - C

Pollution Discharged to Environment/unit of output  
(Parameter as specified in the consent issued)

| Pollutant  | Quantity of Pollutant Discharged (mass/day) (tons/day)         | Concentrations of Pollutants in Discharges (Mass/volume)                               | Percentage of variation from prescribed standards with reasons |
|--|--|--|--|
| <b>(a) Water</b>   |  |  |  |
| No generation of any waste water from mining operation                         |  |  |  |
| Domestic waste water is being sent septic tank , followed by dispersion trench |  |  |  |
| Pollutant  | Quantity of Pollutant Discharged (mass/day)                    | Concentrations of Pollutants in Ambient Air (Mass/volume) ( $\mu\text{g}/\text{m}^3$ ) | Percentage of variation from prescribed standards with reasons |
| <b>(b) Air</b>   |  |  |  |
| PM <sub>10</sub>   | Not Applicable as there is no point source of emission in Mine | 60.2   | Compared to Norm<br>Less by 39.8 %                             |
| PM <sub>2.5</sub>  |  | 28.4   | Compared to Norm<br>Less by 52.7 %                             |
| SO <sub>2</sub>  |  | 9.9  | Compared to Norm<br>Less by 87.6 %                             |
| NO <sub>2</sub>  |  | 21.5   | Compared to Norm<br>Less by 73.2 %                             |
| CO   |  | 114  | Compared to Norm<br>Less by 94.0 %                             |

PART - D

HAZARDOUS WASTES

[As specified under [Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016]

| Hazardous Waste |  | Total Quantity Generated in metric tons        |   |
|-----------------|--|--|---|
|                 |  | During the Previous Financial Year (2021-2022) | During the Current Financial Year (2022-2023) |
| (a)             | From Process - None                    | NIL  | NIL   |
| (b)             | From Pollution Control Facilities-None | NIL  | NIL   |

PART - E

SOLID WASTES

| Solid Waste |   | Total Quantity Generated (metric tons)         |   |
|-------------|---|--|---|
|             |   | During the Previous Financial Year (2021-2022) | During the Current Financial Year (2022-2023) |
| (a)         | From Process- Rejection                             | 201337   | 216328  |
| (b)         | From pollution control facilities                   | NIL  | NIL   |
| (c)         | 1. Quantity recycled or re-utilized within the unit | NIL  | NIL   |
|             | 2. Sold   | NIL  | NIL   |
|             | 3. Disposed   | NIL  | NIL   |

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

| Name of the Waste |                           | Quantity  | Characteristics  | Disposal Practice Adopted   |
|-------------------|---------------------------|---|--|---|
| (1)               | Hazardous Waste<br>None   | NIL   | NA   | NA  |
| (2)               | Solid Waste<br>Rejections | Opening Stock<br>( as on 01.04.2022): 1403790 tons<br>Generation<br>(Apr'22-Mar'23) : 216328<br>Consumption<br>(Apr'22-Mar'23) : 216328<br>Closing Stock<br>( as on 31.03.2023): 1403790 tons | SiO <sub>2</sub> 45-50 %<br>CaO 10-15%<br>Fe <sub>2</sub> O <sub>3</sub> 3- 5%<br>Al <sub>2</sub> O <sub>3</sub> 2- 3% | Rejection soil will be used for Backfilling & afforestation purpose only. |

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

Specific consumption of water 0.015 m<sup>3</sup> per ton of Limestone

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution

Investment Proposal for Environmental Protection for the year 2023-24

- Plantation of saplings : Rs 3.5 lakh


PART - I

Any other particulars for improving the quality of environment

- a. Regular maintenance of all mining machinery and vehicles are being ensured so that vehicular emissions are within prescribed limits
- b. Roads are being maintained effectively to avoid dust emission.
- c. Routine and regularly water sprinkling is being carried out to suppress dust emission.
- d. De-silting of garland drains are being done before monsoon to prevent carryover of solid particles
- e. So far around 15672 trees planted covering 7.76 Ha.

Place : Ariyalur  
Date : 26.09.2023

  
(Signature of the Authorized Person)

 Name : R.P. Muthiah  
Designation : Vice President (Works)

Annexure - 8



CCCPL: AW: AUDIT: 2022-23

06.04.2023

To  
The Assistant Director  
Geology & Mining,  
Collectorate,  
Ariyalur.



Dear Sir,

Sub : Mines & Minerals – Audit of Accounts for the year ending 31.03.2023 – Reg.

We are enclosing the statement pertaining to audit for the year ending 31.03.2023 along with Form – I register and photocopies of challan for the remittance made by us in respect of the following mines.

| Sl.No. | Name of the Mine               | G.O./RC.No.   |
|--------|--------------------------------|---|
| 01.    | Aminabad                       | RC.No: 9220/MM4/ 2003, Dated : 22.09.03                         |
| 02.    | Aminabad                       | RC.No:10994/MM1/ 2007, Dated : 07.11.2008                       |
| 03.    | Alanthuraiyarkattalai          | RC.No: 7479/MM4/ 2003, Dated: 09.10.2003.                       |
| 04.    | Unjini                         | G.O.3(D) No.35 Industries (MMA2) Department, Dated : 01.03.2004 |
| 05.    | Pudupalayam                    | G.O.Ms.No:27 Industries (M2)Department, Dated: 11.01.1989       |
| 06.    | Pudupalayam                    | RC.No: 462/MM1/2009, Dated : 24.12.2009                         |
| 07.    | Kallankurichi                  | RC.No:9534/MM1/2010,Dated: 05.02.2013.                          |
| 08.    | Karuppur(Senapathy)            | RC.No:7134/MM1/2010, Dated : 05.02.2013.                        |
| 09.    | Pudupalayam -Edayathankudi     | RC.No:7133/MM1/2010,Dated : 08.02.2013.                         |
| 10.    | Nakkambadi                     | RC.No:9533/MM1/2010, Dated:05.02.2013.                          |
| 11.    | Arungal                        | RC.No:10047/MM1/2008, Dated : 19.03.2012                        |
| 12.    | Sendurai                       | RC.No:2390/MM1/2009, Dated : 17.04.2015                         |
| 13.    | Karuppur(Senapathy) Keelapalur | G.O.MS.No.133Industries(MMA2)Department, Dated:17.10.2016       |
| 14.    | Periyathirukonam               | RC.No.7135/MM1/2010,Dated:09.01.2017                            |

We request you to kindly acknowledge the receipt of the above and issue us the audit certificate and Mining due clearance certificate for the year ending 31.03.2023 at your earliest convenience.

Thanking you

Yours faithfully,

For Chettinad Cement Corporation Pvt. Ltd.,

Deputy General Manager (Mines)

**Chettinad Cement Corporation Private Limited**  
(formerly Chettinad Cement Corporation Limited)  
Ariyalur Trichy Road, Keelapalur Post,  
Ariyalur Dist - 621707, Tamilnadu, India.  
T + 91 4329 250009  
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947  
Regd. Office : Rani Seethal Hall Building,  
603, Anna Salai, Chennai - 600 006.  
T + 91 44 2829 2727, 4951800 (100 lines)  
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com  
www.chettinad.com

**Chettinad Cement Corporation Private Limited**

Ariyalur Trichy Road, Keelapaluvur -621707

Ariyalur (Dt)

**PERIYATHIRUKONAM LIMESTONE MINES (32.295 hectares)**

Compliance report for the conditions specified in the renewal consent Order

2004229421491 Dated: 28.01.2020 under Water Act

| No. | Additional Conditions  | Status of Compliance  |
|-----|--|---|
| 1   | The unit shall treat and dispose the sewage generated from the unit through septic tank followed by dispersion trench.   | A septic tank followed with soak pit of dimension 3.0 x 1.5 x 2.0 meter is available for the sewage treatment purpose.  |
| 2   | The unit shall ensure that no trade effluent is generated at any stage of the mining activity.   | As it is a mining activity no trade effluent generation is possible.  |
| 3   | The unit shall comply with the conditions mentioned in the EC issued by issued by MOEF, GOI, New Delhi.  | Complying all the conditions stipulated in the Environmental Clearance issued by MOEF, GOI, and New Delhi. EC compliance report for the period from Apr to Sep 2023 is enclosed as <b>Annexure-7</b>                                      |
| 4   | The unit shall comply with Mines and Minerals (Development and regulation) Amendment Act 2015.   | We are complying all the conditions mentioned in Mines and Minerals (Development and regulation) Amendment Act 2015.  |
| 5   | The unit shall furnish the No mining due certificate from competent authority within three months  | We submitted No mining dues certificate request letter to The District Collector. Once we receive the same we will submit immediately. <b>Annexure - 8</b>  |
| 6   | The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead it shall encourage | We shall not use throwaway plastics as mentioned by the Board. And we will use eco-friendly alternatives such as banana leaf, arecanut palm, stainless steel, glass, porcelain plates/cups/cloth bag, jute bag etc. <b>(Annexure - 9)</b> |

|   |   |   |
|---|---|---|
|   | use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/ cups, cloth bag, jute bag etc.   |   |
| 7 | The unit shall comply with the E Waste Management Rules 2016, E waste as listed in Schedule- I generated by them shall be channelized through collection center or dealer of authorized producer or dismantlers or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form- 2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form -3, to the TNPCB on or before the 30 th day of June following the financial year | Condition Noted. No E-waste generation in our mining process. |
| 8 | The unit shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.,  | Work will be carried out during Mine closure plan Period.     |
| 9 | In case of revision of consent fee by the Government. The unit shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be Initiated against the unit as per law.   | Condition noted   |

*M.R. Venkatesan*

M.R. Venkatesan

General Manager – Mines

*M.R.*

(Septic Tank at Mines Office)





# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Page 1 of 2

Report No : QEN-23070302-11

Report Date : 22 Jul 2023

**Customer Name** : M/s. CHETTINAD CEMENT CORPORATION PVT LTD (Periyathirukonam LS Mines)  
**Customer Address** : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur Dist-621707.  
**Sample Name** : Water **Sample Quantity** : 5 Lit +100mL  
**Sample Description** : Mines Sump Water **Sampling Date** : 14 Jul 2023  
**Reference** : Test Request Form Dated 18.07.2023 **Sample Received on** : 18 Jul 2023  
**Sample Drawn By** : Laboratory **Test Started on** : 18 Jul 2023  
**Sample Location** : Mines Pit Area **Test Completed on** : 22 Jul 2023  
**Sample Procedure** : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06

### TEST RESULTS

| S.NO   | Parameter                    | Test Method         | Unit      | Results        |
|--|------------------------------|---------------------|-----------|----------------|
| <b>Biological</b>  |                              |                     |           |                |
| 1  | Total Coliforms              | IS 15185            | Per 100mL | Absent         |
| <b>Chemical</b>  |                              |                     |           |                |
| 2  | Sodium as Na                 | IS 3025 (Part 45)   | mg/L      | 65             |
| <b>Clause 4, Table 1 Organoleptic And Physical parameters</b>                                      |                              |                     |           |                |
| 3  | Colour                       | IS 3025 (Part 04)   | Hazen     | 10             |
| 4  | Odour                        | IS 3025 (Part 05)   | --        | Agreeable      |
| 5  | pH Value                     | IS 3025 (Part 11)   | --        | 7.84           |
| 6  | Total Dissolved Solids       | IS 3025 (Part 16)   | mg/L      | 895            |
| 7  | Turbidity                    | IS 3025 (Part 10)   | NTU       | 1.0            |
| <b>Clause 4, Table 2 General Parameters Concerning Substances Undesirable In Excessive Amounts</b> |                              |                     |           |                |
| 8  | Anionic Detergents (as MBAS) | Annex K of IS 13428 | mg/L      | BLQ(LOQ:0.05)  |
| 9  | Boron                        | IS 3025 (Part 65)   | mg/L      | BLQ(LOQ:0.025) |
| 10   | Chloride (as Cl)             | IS 3025 (Part 32)   | mg/L      | 284            |
| 11   | Copper                       | IS 3025 (Part 65)   | mg/L      | BLQ(LOQ:0.001) |
| 12   | Fluoride as F                | IS 3025 (Part 60)   | mg/L      | 0.3            |
| 13   | Free Residual Chlorine       | IS 3025 (Part 26)   | mg/L      | BLQ(LOQ:0.1)   |
| 14   | Iron (as Fe)                 | IS 3025 (Part 53)   | mg/L      | 0.12           |
| 15   | Manganese                    | IS 3025 (Part 65)   | mg/L      | BLQ(LOQ:0.001) |

**D. KARTHIK**  
 Microbiologist

**R. PRABHU**  
 Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai – 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The laboratory's responsibility under this report is limited to proven willful negligence and will in no case be more than the invoiced amount. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Report No : QEN-23070302-11

Page 2 of 2  
Report Date : 22 Jul 2023

| S.NO  | Parameter                             | Test Method                       | Unit  | Results         |
|---|---------------------------------------|-----------------------------------|-------|-----------------|
| 16  | Mineral Oil                           | IS 3025 (Part 39)                 | mg/L  | BLQ(LOQ:1.0)    |
| 17  | Nitrate (as NO3)                      | APHA 23rd Edition:4500 NO3 B 2017 | mg/L  | 24              |
| 18  | Phenolic Compound (as C6H5OH)         | IS 3025 (Part 43)                 | mg/L  | BLQ(LOQ:0.001)  |
| 19  | Selenium                              | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)  |
| 20  | Sulphate (as SO4)                     | IS 3025 (Part 24)                 | mg/L  | 86              |
| 21  | Total Alkalinity (as CaCO3)           | IS 3025 (Part 23)                 | mg/L  | 310             |
| 22  | Total Hardness (as CaCO3)             | IS 3025 (Part 21)                 | mg/L  | 292             |
| <b>Clause 4, Table 3 Parameters Concerning Toxic Substances</b> |                                       |                                   |       |                 |
| 23  | Arsenic                               | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)  |
| 24  | Cadmium                               | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)  |
| 25  | Chromium                              | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)  |
| 26  | Cyanide (as CN)                       | IS 3025 (Part 27)                 | mg/L  | BLQ(LOQ:0.01)   |
| 27  | Lead                                  | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)  |
| 28  | Mercury                               | EPA 200.8                         | mg/L  | BLQ(LOQ:0.0005) |
| <b>Others</b>   |                                       |                                   |       |                 |
| 29  | Appearance                            | APHA 23rd Edition:2110 2017       | --    | Clear           |
| 30  | Calcium Hardness (as CaCO3)           | IS 3025 (Part 40)                 | mg/L  | 171             |
| 31  | Conductivity @ 25°C                   | IS 3025 (Part 14)                 | µS/cm | 1492            |
| 32  | Magnesium Hardness (as CaCO3)         | IS 3025 (Part 46)                 | mg/L  | 121             |
| 33  | Nitrite (as NO2)                      | IS 3025 (Part 34)                 | mg/L  | BLQ(LOQ:0.01)   |
| 34  | Phenolphthalein Alkalinity (as CaCO3) | IS 3025 (Part 23)                 | mg/L  | BLQ(LOQ:2.0)    |
| 35  | Silica as SiO2                        | IS 3025 (Part 35)                 | mg/L  | 30              |
| 36  | Total suspended solids (TSS)          | IS 3025 (Part 17)                 | mg/L  | BLQ(LOQ:2.0)    |
| 37  | Free Ammonia as NH3                   | IS 3025 (Part 34)                 | mg/L  | BLQ(LOQ:0.03)   |

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

K. PRAKASH  
Senior Chemist

R. PRABHU  
Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED



## TEST REPORT

TC-6118

Page 1 of 2

Report No : QEN-23070302-12 to 13

Report Date : 22 Jul 2023

Customer Name : M/s. CHETTINAD CEMENT CORPORATION PVT LTD (Periyathirukonam LS Mines)  
 Customer Address : Ariyalur Works, Trichy- Ariyalur Road, Keelapalur, Ariyalur Dist-621707.

Sample Name : Water Sample Quantity : 5Lit +100mL  
 Sample Description : Ground Water Sampling Date : 14 Jul 2023  
 Reference : Test Request Form Dated 18.07.2023 Sample Received on : 18 Jul 2023  
 Sample Drawn By : Laboratory Test Started on : 18 Jul 2023  
 Sample Procedure : SMSLA/EN/SOP/001, SMSLA/MB/SOP/06 Test Completed on : 22 Jul 2023

### TEST RESULTS

| S.NO   | Parameter                    | Test Method         | Unit       | Sample Locations         |                        |
|--|------------------------------|---------------------|------------|--------------------------|------------------------|
|  |                              |                     |            | Periyathirukonam Village | Muniyankurichi Village |
| <b>Biological</b>  |                              |                     |            |                          |                        |
| 1  | Total Coliforms              | IS 15185            | Per 100ml. | Absent                   |                        |
| <b>Chemical</b>  |                              |                     |            |                          |                        |
| 2  | Sodium as Na                 | IS 3025 (Part 45)   | mg/L.      | 75                       | 71                     |
| <b>Clause 4, Table 1 Organoleptic And Physical parameters</b>                                      |                              |                     |            |                          |                        |
| 3  | Colour                       | IS 3025 (Part 04)   | Hazen      | 10                       |                        |
| 4  | Odour                        | IS 3025 (Part 05)   | --         | Agreeable                |                        |
| 5  | pH Value                     | IS 3025 (Part 11)   | --         | 7.84                     | 7.68                   |
| 6  | Total Dissolved Solids       | IS 3025 (Part 16)   | mg/L       | 609                      | 613                    |
| 7  | Turbidity                    | IS 3025 (Part 10)   | NTU        | 0.7                      | 0.8                    |
| <b>Clause 4, Table 2 General Parameters Concerning Substances Undesirable In Excessive Amounts</b> |                              |                     |            |                          |                        |
| 8  | Anionic Detergents (as MBAS) | Annex K of IS 13428 | mg/L       | BLQ(LOQ:0.05)            |                        |
| 9  | Boron                        | IS 3025 (Part 65)   | mg/L       | BLQ(LOQ:0.025)           |                        |
| 10   | Chloride (as Cl)             | IS 3025 (Part 32)   | mg/L       | 211                      | 208                    |
| 11   | Copper                       | IS 3025 (Part 65)   | mg/L       | BLQ(LOQ:0.001)           |                        |
| 12   | Fluoride as F                | IS 3025 (Part 60)   | mg/L       | 0.3                      |                        |
| 13   | Free Residual Chlorine       | IS 3025 (Part 26)   | mg/L       | BLQ(LOQ:0.1)             |                        |
| 14   | Iron (as Fe)                 | IS 3025 (Part 53)   | mg/L       | 0.12                     | 0.14                   |
| 15   | Manganese                    | IS 3025 (Part 65)   | mg/L       | BLQ(LOQ:0.001)           |                        |

*D. Karthik*  
 D. KARTHIK  
 Microbiologist

*R. Prabhu*  
 R. PRABHU  
 Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

Report No : QEN-23070302-12 to 13

Page 2 of 2  
Report Date : 22 Jul 2023

| S.NO  | Parameter                             | Test Method                       | Unit  | Sample Locations         |                        |
|---|---------------------------------------|-----------------------------------|-------|--------------------------|------------------------|
|   |                                       |                                   |       | Periyathirukonam Village | Muniyankurichi Village |
| 16  | Mineral Oil                           | IS 3025 (Part 39)                 | mg/L  | BLQ(LOQ:1.0)             |                        |
| 17  | Nitrate (as NO3)                      | APHA 23rd Edition:4500 NO3 B 2017 | mg/L  | 13                       | 16                     |
| 18  | Phenolic Compound (as C6H5OH)         | IS 3025 (Part 43)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 19  | Selenium                              | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 20  | Sulphate (as SO4)                     | IS 3025 (Part 24)                 | mg/L  | 55                       | 63                     |
| 21  | Total Alkalinity (as CaCO3)           | IS 3025 (Part 23)                 | mg/L  | 219                      | 243                    |
| 22  | Total Hardness (as CaCO3)             | IS 3025 (Part 21)                 | mg/L  | 205                      | 220                    |
| <b>Clause 4, Table 3 Parameters Concerning Toxic Substances</b> |                                       |                                   |       |                          |                        |
| 23  | Arsenic                               | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 24  | Cadmium                               | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 25  | Chromium                              | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 26  | Cyanide (as CN)                       | IS 3025 (Part 27)                 | mg/L  | BLQ(LOQ:0.01)            |                        |
| 27  | Lead                                  | IS 3025 (Part 65)                 | mg/L  | BLQ(LOQ:0.001)           |                        |
| 28  | Mercury                               | EPA 200.8                         | mg/L  | BLQ(LOQ:0.0005)          |                        |
| <b>Others</b>   |                                       |                                   |       |                          |                        |
| 29  | Appearance                            | APHA 23rd Edition:2110 2017       | --    | Clear                    |                        |
| 30  | Calcium Hardness (as CaCO3)           | IS 3025 (Part 40)                 | mg/L  | 115                      | 122                    |
| 31  | Conductivity @ 25°C                   | IS 3025 (Part 14)                 | µS/cm | 1015                     | 1022                   |
| 32  | Magnesium Hardness (as CaCO3)         | IS 3025 (Part 46)                 | mg/l. | 90                       | 98                     |
| 33  | Nitrite (as NO2)                      | IS 3025 (Part 34)                 | mg/L  | BLQ(LOQ:0.01)            |                        |
| 34  | Phenolphthalein Alkalinity (as CaCO3) | IS 3025 (Part 23)                 | mg/L  | BLQ(LOQ:2.0)             |                        |
| 35  | Silica as SiO2                        | IS 3025 (Part 35)                 | mg/L  | 34                       | 34                     |
| 36  | Total suspended solids (TSS)          | IS 3025 (Part 17)                 | mg/L  | BLQ(LOQ:2.0)             |                        |
| 37  | Free Ammonia as NH3                   | IS 3025 (Part 34)                 | mg/L  | BLQ(LOQ:0.03)            |                        |

Note : BLQ: Below Limit of Quantification LOQ: Limit of Quantification.

/\*\*\*\*\* End of the Report \*\*\*\*\*/

K. PRAKASH  
Senior Chemist

R. PRABHU  
Senior Chemist

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The laboratory's responsibility under this report is limited to proven willful negligence and will in no case be more than the invoiced amount. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/ are said to be extracted.

### GREEN BELT DEVELOPMENT





Afforestation in Lease Boundary Periphery





**PERIYATHIRUKONAM LIMESTONE MINE – GARLAND DRAINAGE & SILTATION TANK**









**House Keeping**





CCCPL/TN/PTK /EC Compliance/ Apr'2023 – Sep'2023/23-24/324  
27<sup>th</sup> Nov 2023

To  
The Joint Director  
Ministry of Environment, Forest & Climate Change  
Government of India  
IRO, 1<sup>st</sup> Floor, Additional Office Block for GPOA,  
Shastri Bhawan, Haddows Road, Nungambakkam  
Chennai - 600 006.  
Sir,

Sub: Submission of Environmental Clearance (EC) Compliance Report (Apr'2023 – Sep'2023) Chettinad Cement Corporation Private Limited – Periyathirukonam Limestone Mine (32.295 ha) of Limestone & Marl at Periyathirukonam Village, Ariyalur Taluk & District, Tamilnadu

Ref: Environmental Clearance granted by SEIAA-TN/F No.-6283/ALR/1(a)/EC – 4020/2019 dt. 19.08.2019

We submit herewith the Six Monthly EC Compliance Report pertaining to Periyathirukonam Limestone Mine (32.295 ha) at Periyathirukonam Villages, Ariyalur Taluk & District, Tamilnadu, for the period from Apr'2023 – Sep'2023.

Environmental Monitoring Report comprising of

- |    |  |   |             |
|----|--|---|-------------|
| 1  | Consolidated Report - Ambient Air Quality Monitoring   | - | Annexure 1  |
| 2  | Consolidated Report- Noise Level Monitoring            | - | Annexure 2  |
| 3  | Consolidated Report -Ground Water Quality Monitoring   | - | Annexure 3  |
| 4  | Copy of Environment & Safety Management Cell Committee | - | Annexure 4  |
| 5  | Copy of TNPCB AAQ survey report                        | - | Annexure 5  |
| 6  | Photo of Green belt development                        | - | Annexure 6  |
| 7  | Photo of Water quality Measures                        | - | Annexure 7  |
| 8  | Photo of Piezometer                                    | - | Annexure 8  |
| 9  | Photo of Mineral                                       | - | Annexure 9  |
| 10 | Photo AAQ Monitoring                                   | - | Annexure 10 |
| 11 | Photo of OB dumps                                      | - | Annexure 11 |
| 12 | Photo of Garland drain & Silting Bond                  | - | Annexure 12 |

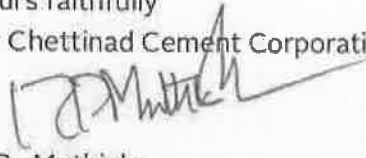
**Chettinad Cement Corporation Private Limited**  
Ariyalur Trichy Road, Keelapalur Post,  
Ariyalur Dist - 621707, Tamilnadu, India.  
T + 91 4329 250009  
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947  
Regd. Office : Chettinad Towers,  
603, Anna Salai, Chennai - 600 006.  
T + 91 44 2829 2727, 42951800 (100 lines)  
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com  
www.chettinad.com

- |    |                                 |   |             |
|----|---------------------------------|---|-------------|
| 13 | Photo of Sump Water             | - | Annexure 13 |
| 14 | Photo of PPE                    | - | Annexure 14 |
| 15 | Photo of Fencing                | - | Annexure 15 |
| 16 | Photo of Ban Plastic Awareness  | - | Annexure 16 |
| 17 | Photo of Noise Monitoring       | - | Annexure 17 |
| 18 | Photo of CSR Activities         | - | Annexure 18 |
| 19 | Copy of Environmental statement | - | Annexure 19 |

Yours faithfully  
for Chettinad Cement Corporation Private Limited

  
R. P. Muthiah  
Vice President (Works)

to  
Copy to :  
Zonal Office, CPCB, Bangalore  
Member Secretary, TNPCB, Chennai.  
JCEE, TNPCB, Trichy  
DEE, TNPCB, Ariyalur

Ven.

**Chettinad Cement Corporation Private Limited**  
Ariyalur - Trichy Road  
Keelapalur -621707.Ariyalur Dist.

**Periyathirukonam Limestone Mines**  
(Area: 32.295 hectares)

**Environmental Clearance (EC) Compliance Report (April-23 –September-23)**

Environmental Clearance: Lr.No. SEIAA-TN/F No.-6283/ALR/1(a)/EC – 4020/2019

dt. 19.08.2019

**Conditions for Pre-Construction phase:**

| S.No | Pre-Construction phase  | Compliance status   |
|------|---|---|
| 1    | Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | <b>Complied.</b><br>No Appeal is lying with National Green Tribunal against this Environmental Clearance.   |
| 2    | Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up any construction activity at the site.               | <b>Complied.</b><br>We have obtained Consent for Establishment (Air & Water) from TNPCB vide Ref. No: Air- 1901228088887, dated : 18.10.19 and Water- 1901128088887,dated 18.10.19,<br><br>A Copy of CTE (Air & Water) was submitted to SEIAA, Tamil Nadu before taken any construction activity at the site. |
| 3    | "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAATN.                                      | <b>Complied.</b><br>We have obtained Consent to Operate –CTO (Air & Water) from TNPCB vide ref. No:Air:2004229421491, dated 28.01.2020 and Water: 2004129421491 ,dated 28.01.2020.<br><br>A Copy of CTO (Air & Water) was submitted to SEIAA, Tamil Nadu.   |
| 4    | Safety distance of 50m shall be provided from the vari course to the mining lease boundary and this should be monitored continuously by the District Level Task Force.  | <b>Complied.</b><br>The necessary safety distance of 50 meter is being provided from the vari course to the mining lease boundary.  |

| 5       | <p>The proponent shall carry out mining activities for the 5 years only for 1874401 Tonnes of Limestone &amp; 325371 Tonnes of Marl as per the mining plan furnished by the proponent. The EC is valid only if the mining plan (including Progressive Mine Closure plan) is approved by the Indian Bureau of Mines or any officers nominated on his behalf.</p>                                  | <p><b>Complied.</b></p> <p>Mining activities will be carried out for 5 years only for 1874401 Tonnes of Limestone &amp; 325371 Tonnes of Marl.</p> <p>As per the Mining plan, Mining operations are carried out. The mining plan was approved by TN/ALR/LST/MMP: 2095.MDS dt:14.07.2023</p> <table border="1" data-bbox="722 436 1465 645"> <thead> <tr> <th rowspan="2">YEAR</th> <th colspan="3">As per Mining Plan Proposal (Ton)</th> <th colspan="3">Actual Quantity</th> </tr> <tr> <th>Limestone</th> <th>Marl</th> <th>Total</th> <th>Limestone</th> <th>Marl</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>190679</td> <td>10038</td> <td>200717</td> <td>61100.12</td> <td>0</td> <td>61100.12</td> </tr> <tr> <td>2020-21</td> <td>480541</td> <td>19814</td> <td>500355</td> <td>495571.88</td> <td>0</td> <td>495571.88</td> </tr> <tr> <td>2021-22</td> <td>425034</td> <td>74961</td> <td>499995</td> <td>413918.3</td> <td>12452.74</td> <td>426371.04</td> </tr> <tr> <td>2022-23</td> <td>403741</td> <td>95165</td> <td>498906</td> <td>287765.98</td> <td>67667.18</td> <td>355433.16</td> </tr> <tr> <td>2023-24</td> <td>293726</td> <td>110582.8</td> <td>404308.8</td> <td>182489.74</td> <td>75308.76</td> <td>257798.5</td> </tr> <tr> <td></td> <td>1794767.6</td> <td>310560.8</td> <td>2105328.4</td> <td>1441846</td> <td>154026.7</td> <td>1595872.7</td> </tr> </tbody> </table> | YEAR      | As per Mining Plan Proposal (Ton) |          |           | Actual Quantity |  |  | Limestone | Marl | Total | Limestone | Marl | Total | 2019-20 | 190679 | 10038 | 200717 | 61100.12 | 0 | 61100.12 | 2020-21 | 480541 | 19814 | 500355 | 495571.88 | 0 | 495571.88 | 2021-22 | 425034 | 74961 | 499995 | 413918.3 | 12452.74 | 426371.04 | 2022-23 | 403741 | 95165 | 498906 | 287765.98 | 67667.18 | 355433.16 | 2023-24 | 293726 | 110582.8 | 404308.8 | 182489.74 | 75308.76 | 257798.5 |  | 1794767.6 | 310560.8 | 2105328.4 | 1441846 | 154026.7 | 1595872.7 |
|---------|--|---|-----------|-----------------------------------|----------|-----------|-----------------|--|--|-----------|------|-------|-----------|------|-------|---------|--------|-------|--------|----------|---|----------|---------|--------|-------|--------|-----------|---|-----------|---------|--------|-------|--------|----------|----------|-----------|---------|--------|-------|--------|-----------|----------|-----------|---------|--------|----------|----------|-----------|----------|----------|--|-----------|----------|-----------|---------|----------|-----------|
| YEAR    | As per Mining Plan Proposal (Ton)  |   |           | Actual Quantity                   |          |           |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
|         | Limestone  | Marl  | Total     | Limestone                         | Marl     | Total     |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 2019-20 | 190679   | 10038   | 200717    | 61100.12                          | 0        | 61100.12  |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 2020-21 | 480541   | 19814   | 500355    | 495571.88                         | 0        | 495571.88 |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 2021-22 | 425034   | 74961   | 499995    | 413918.3                          | 12452.74 | 426371.04 |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 2022-23 | 403741   | 95165   | 498906    | 287765.98                         | 67667.18 | 355433.16 |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 2023-24 | 293726   | 110582.8  | 404308.8  | 182489.74                         | 75308.76 | 257798.5  |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
|         | 1794767.6  | 310560.8  | 2105328.4 | 1441846                           | 154026.7 | 1595872.7 |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 6       | <p>For the extension of the Environmental Clearance the proponent shall apply for extension of EC within the valid period for the next scheme of mining.</p>   | <p><b>Complied.</b></p> <p>Application for the extension of EC will be submitted the within the valid period.</p>   |           |                                   |          |           |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 7       | <p>In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAL/SEIAA shall be obtained. No change in mining technology and scope of working should be made without prior approval of the State Environmental Impact Assessment Authority. No change in the calendar plan including excavation, quantum of mineral limestone &amp; Marl and waste should be made.</p> | <p><b>Complied.</b></p> <p>No change in mining technology and scope of working has been envisaged.</p> <p>No change in the calendar plan including excavation, quantum of mineral limestone &amp; Marl and waste .</p>  |           |                                   |          |           |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 8       | <p>The Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority"/before starting any activity at site.</p>   | <p><b>Complied.</b></p> <p>No objection certification from district forest officer vide letter No; C.No. 2928/2017/P dated 23.03.2018 , stating that and " No forest land is involved and the project site is located more 10 km from karaivetti bird sanctuary" was obtained.</p> <p>Hence, NOC from NBWL and Forest Clearance is not applicable.</p>  |           |                                   |          |           |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |
| 9       | <p>Project proponent shall comply</p>  | <p><b>Complied.</b></p>   |           |                                   |          |           |                 |  |  |           |      |       |           |      |       |         |        |       |        |          |   |          |         |        |       |        |           |   |           |         |        |       |        |          |          |           |         |        |       |        |           |          |           |         |        |          |          |           |          |          |  |           |          |           |         |          |           |

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|    | with all the guidelines and notifications issued by MoEF&CC, New Delhi regarding Mining of Minerals and comply with orders of Hon'ble NGT from time to time regarding mining of minerals under 1(a).   | We comply with the conditions as per guidelines and notifications issued by MoEF&CC, New Delhi from time to time.  |
| 10 | A copy of the clearance letter shall be sent by the proponent to the Local Body, Ariyalur Taluk, Ariyalur District, and the Local NGO, if any, from whom suggestions /representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the Proponent. letter shall also be put on the website of the Proponent.   | <b>Complied.</b><br>A copy of the Environmental clearance letter was sent to Local Body, Ariyalur Taluk, Ariyalur District on 24.08.2019 and also displayed in the company website. <a href="https://www.chettinad.com/cements_plants.php?site=Ariyalur">https://www.chettinad.com/cements_plants.php?site=Ariyalur</a>  |
| 11 | All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue, Services. Department, Hill Area Conservation Authority (HACA), Civil Aviation Department, 'Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities. | <b>Complied.</b><br>All applicable statutory clearances are obtained.<br>No objection certification from district forest officer vide letter No C No. 2928/2017/P dated 23.03.2018, stating that and "No forest land is involved and the project site is located more 10 km from karaivetti bird sanctuary" was obtained.<br>At Present, Mining Activity has not intersected the ground water table. |
| 12 | All required sanitary and hygienic measures should be in place before starting construction activities and they have to be, maintained throughout the construction phase.  | <b>Complied.</b><br>All required sanitary and hygienic measures was followed during the starting of construction activities and maintained throughout the construction phase.  |
| 13 | The company shall stress upon the preventive aspects of  | <b>Complied.</b>   |

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|    | occupational health.  | Workers are trained in safety on the need to use Personal Protective Equipment viz Safety Helmet , Safety Shoe , goggles, Nose Mask etc. to safe safeguard against possible Occupational health issues.  |
| 14 | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobileSTP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.  | <p><b>Complied.</b></p> <p>Only the construction of Office Shed, Toilet &amp; Septic Tank was involved in this project.</p> <p>The workers from nearby the villages have engaged for the same. Hence, housing for the construction laborer is not envisaged.</p> <p>However, safe drinking water, medical health care etc., has ensured for the laborer.</p> |
| 15 | The project authorities should advertise with basic details at least in two widely circulated local newspapers, one of which shall be in the vernacular language of the- locality concerned, within 7 days of the issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, SEIAA-TNTN and a copy of the same should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai. | <p><b>Complied.</b></p> <p>Advertised in Dinamani, (Tamil News paper), in Indian Express,(English News paper) on 29.08.2019 .The advertisement copy in both Tamil &amp; English were uploaded online.</p>  |
| 16 | A separate environment and safety management cell with qualified staff shall be set up before commissioning of construction activities and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.  | <p><b>Complied.</b></p> <p>A Separate Environment and Safety Management Cell has been constituted for implementation of the environmental safeguards and enclosed Annexure-4</p>   |
| 17 | The State Pollution Control Board should display a copy of the Environmental Clearance issued to the project at the Regional office, District Industry Centre and the Collector's office/Tahsildar's office for 30 days. The Project Proponent has  | <p><b>Condition Noted.</b></p> <p><b>Complied.</b></p> <p>We have conducted AAQ monitoring survey as per the conditions stipulated for PM 10 &amp; PM 2.5<br/> TNPCCB report letter no. 29/AD/AEL/TNPCCB/TRY/AAQS/ SM/-2023-24 DT. 17.07.2023 furnished report of analysis of ambient air</p>  |

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|    | to conduct Ambient Air Quality survey twice in a week (104 times) in a year and monitor the PM 10 & PM 2.5.  | quality level in the mining area and mentioned data shows that the values are within the limits. and enclosed as Annexure-5   |
| 18 | A scientific site/ ecological rehabilitation and restoration plan on long term basis should be drawn to carry out restoration with native species and Bio diversity. | Complied.<br><br>A scientific site/ ecological rehabilitation and restoration was carried out as per the Progressive Mine Closure Plan (PMCP), which was duly approved by the Indian bureau of Mines. |
| 19 | The Green/Blue plan should guide the restoration of the site. There habilitation restoration plan should be submitted to SEIAA-TN within one month. If applicable.   | Not Applicable.   |
| 20 | The existing water bodies should not be disturbed to ensure sustainable environment for aquatic life forms.  | Complied.<br><br>Existing Water bodies are not disturbed to ensure the sustainable environment.   |
| 21 | The proponent should completely implement all environmental pollution control measures as detailed in the EIA report and in the additional report.                   | Complied.<br><br>We have implemented all environmental pollution control measures as detailed in the EIA report.  |
| 22 | Additional sprinklers to be effectively added along the route for transporting limestone from the mines to the plant   | Complied.<br><br>Sprinklers are installed at suitable places for dust suppression for transporting limestone from the mines to the plant.   |
| 23 | Avenue plantation wherever needed has to be carried out along the route for dust suppression.  | Complied.<br><br>To avoid dust suppression, apart from green belt development, avenue Plantation has been carried out.  |
| 24 | The green belt developed for the prevention of dust pollution should not form a part of the larger green belt development envisaged in the EIA report.               | Complied.<br><br>The green belt development and plantation undertaken to prevent dust pollution are being carried out separately and records are being maintained for the same.                       |
| 25 | Regular monitoring and check up for pulmonary and carcinogenic diseases to be carried out regularly, not only for the workers involved in the mines                  | Complied.<br><br>Initial and Periodical Medical examinations are being carried out for all the mine employees and periodically as per the consultation with Primary Health Centre &                   |

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|    | but also to the people in the villages adjoining the mines. Interaction with the Primary Health Centre & district medical officer should be on regular basis to monitor the incidence of the diseases if any, and to provide suitable medical facility for the patients.  | district medical officer, medical camps conducted for the villagers.   |
| 26 | As mining operations are Conducted by deploying rock breakers which is bound to produce noise as well as vibration, a survey has to be undertaken for studying the vibrations and remedial action need to be taken to circumvent the noise pollution and dissemination from the source. Vibration studies need to be conducted by a reputed organization like Annamalai University, Anna University, NIT, Trichy. Green barrier needs to be provided between the mine boundary and the nearby habitation to minimize the noise pollution. | <b>Complied.</b><br>We have carried out Vibration Study Monthly/ Quarterly Monitoring through NABL Accredited Agency.<br><br>Green barrier in the form of Afforestation were provided between the mine boundary and the nearby habitation to minimize the noise pollution. |

**Conditions for Construction /Mining phase :**

| No. | Conditions (Construction Phase)   | Compliance Status  |
|-----|---|--|
| 1)  | The proponent shall plant the green belt area with more indigenous species for Biodiversity enhancement.  | <b>Complied.</b><br>Green belt area is being developed by planting the more indigenous species like Pungan, Vembu, Malai Vembu, Maillondrai for Biodiversity enhancement. (Annexure 6)   |
| 2)  | A Report on quality and quantity of ground water to be generated during mining operations should be furnished to the TNPCB for every one year for effective monitoring. | <b>Complied.</b><br>The monitoring of ground water quality within the location is being carried out by NABL recognized third party laboratory.<br><br>The monitored data show that the values are within the limits. The results are submitted to the regional office of the MOEF&CC, Chennai as part of six-month compliance report to TNPCB and SEIAA. |
| 3)  | The Comparative statement on normal ground water and mined out water with respect to Qualities &  | <b>Complied.</b><br>A Comparative statement of normal ground water and mine water was furnished with respect to  |

|    |  |   |
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|    | Suitability for agriculture etc should be furnished to the TNPCB for every one year for effective monitoring.  | qualities & suitability for agriculture furnished to TNPCB.   |
| 4) | Monitoring of well water levels and water quality of the wells in the locations furnished in the EIA report shall be done during pre – monsoon period and results submitted to the regional office MoEF, Chennai and SEIAA.  | <p><b>Complied.</b></p> <p>The monitoring of water level and water quality of the wells in the location is being carried out by NABL recognized third party laboratory. (Annexure 7)</p> <p>The monitored data show that the values are within the limits. The results are submitted to the regional office of the MOEF&amp;CC, Chennai as part of six month compliance report to TNPCB and SEIAA.</p>  |
| 5) | Monitoring of water quality and air quality and around the project site in the selected monitoring points as mentioned in the EIA report shall be continued regularly involving Academic Institutions.   | <p><b>Complied.</b></p> <p>The monitoring of water quality and air quality of the project location is being carried out by NABL recognized third party laboratory.</p> <p>The monitored data show that the values are within the limits. The results are submitted to the regional office of the MOEF&amp;CC, Chennai as part of six month compliance report to TNPCB and SEIAA.</p>  |
| 6) | Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new Piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Chennai, the Central Ground Water Authority | <p><b>Complied.</b></p> <p>Regular monitoring of ground water level and quality carried out in and around the mine lease area by Constructing the Piezometers (2 Nos) during the mining operation. The periodic monitoring is carried out for four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) as per the MOEF &amp; CGWB Norms.</p> <p>There is No depletion of groundwater table due to the mining activity.</p> <p>At Present, the mining activity has not intersected the ground water table. (Annexure 8)</p> |

|     |   |  |
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|     | and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.   |  |
| 7)  | Hydro geological study including infiltration test shall be conducted by any reputed agency to estimate leachate quantity.  | <b>Complied.</b><br>Hydro geological study including infiltration test was conducted by Anna University, Chennai and their recommendation is being implemented.  |
| 8)  | The excess over burden shall not be disposed for any commercial purposes and shall be disposed within the mine lease area only.   | <b>Complied.</b><br>At any case, No overburden is disposed for any commercial purpose and disposed only within the mine lease area.  |
| 9)  | The critical parameters such as RSPM (PM <sub>2.5</sub> , PM <sub>10</sub> ) and NO <sub>x</sub> in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The Monitored data shall be uploaded on the website of the as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. | <b>Complied.</b><br>All critical parameters given in the conditions were monitored through NABL accredited Laboratory.<br><br>Monitored data were uploaded on the company website and displayed the main gate. |
| 10) | Data on ambient air quality [RSPM and NO <sub>x</sub> ] shall be regularly submitted to the regional Office of MoEF at Chennai and the SEIAA / SPCB / CPCB once in six months.  | <b>Complied.</b><br>Ambient air quality [RSPM and NO <sub>x</sub> ] data were submitted to the MoEF Chennai, SEIAA/SPCB/CPCB once in six months.   |
| 11) | Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and at transfer points should be provided and properly maintained.   | <b>Complied.</b><br>Fugitive dust emission sources are being controlled regularly by Water spraying arrangement on haul roads, loading and unloading points and all transfer points.                           |
| 12) | Pre – Placement medical   | <b>Complied.</b>   |

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|     | examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.  | Pre- Placement medical examination and periodical medical examination for the workers were carried out and records are being maintained.  |
| 13) | Regular medical checkup for mine workers and nearby residents around the project site involving community medical centre / NIMH shall be conducted.   | Complied.<br>Regular medical check-up for mine workers and nearby residents around the mining site are being conducted.   |
| 14) | As per norms, the health study should be conducted through competent / approved health organization and report submitted for one year.  | Complied.<br>As per norms, the health study is being conducted through competent / approved health organization by CCCPL and report are submitted for one year.   |
| 15) | Corpus fund created should be prioritized and utilized for health issues.   | Complied.<br>A separate corpus fund was created and utilized for health issues.   |
| 16) | Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all transfer points shall also have efficient dust control arrangement. These should be properly maintained and operated.   | Complied.<br>In Mineral Handling, loading and unloading area, water sprinkling arrangements are provided at frequent intervals.   |
| 17) | Vehicular emissions shall be kept under control and regularly monitored. Measured shall be taken for maintenance of vehicle used in mining operations and in transportation within the mine lease shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. | Complied.<br>The vehicle entering in the Mine is checked at the entry point for Pollution under control Certificate. Use of vehicle for mining Operations, transportation of mineral and maintenance of vehicle are envisaged only during mining operations.<br>Regular maintenance of vehicle is used in mining operations and in transportation of mineral is ensured.<br>Vehicle transporting limestone from mines to the factory are covered with tarpaulin properly. (Annexure -9) |
| 18) | The effective safe guard measures shall be provided to control particulate dust level in Critical   | Complied.<br>Water Sprinkling is being done on haul roads, loading areas etc. at frequent interval to   |

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|     | areas, transfer points and haul road in the mine area.  | control fugitive dust emission. ( Annexure -9)  |
| 19) | At least four ambient air quality – monitoring stations should be established in the core zone as well as in the buffer zone for monitoring of RSPM (PM <sub>2.5</sub> , PM <sub>10</sub> ) and NO <sub>x</sub> . Location of the stations should be decided in consultation with Tamil Nadu pollution Control Board Based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring etc. | Complied.<br><br>Monitoring of ambient air quality at four different locations in the core zone as well as in the buffer zone is being carried out in consultation with Tamil Nadu pollution Control Board. Annexure 10)  |
| 20) | NOC from the state GWA for drawing ground water shall be obtained, if ground water table is intersected.  | Complied.<br><br>At present the mining activity has not intersected the ground water table.<br><br>However, an application for NOC from water resources department, Tamilnadu GWA was applied on 29.03.2017.  |
| 21) | Separate drain shall be constructed in between waste dump (bund) and nearby river course, if any to avoid silting in the water body.  | Complied.<br><br>There are two overburden dumps (East and South) within the ML area, A Separate drain was constructed to avoid silting in the water body. Annexure 11)  |
| 22) | Garland drains and siltation ponds of appropriate Size shall be constructed around the mine working, soil and mineral dumps to prevent run off of water and flow of sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after the monsoon, and maintained properly.   | Complied.<br><br>Garland drain of appropriate size, around the mine working pit and siltation ponds were constructed to prevent runoff water and flow of sediments.<br><br>The drains and siltation ponds were regularly desilted particularly after monsoon and maintained properly. (Annexure 12) |
| 23) | The rain water accumulation in the mine during rainy seasons shall be treated by Providing settling tanks in the periphery of the mining lease area and the overflow clean water  | Complied.<br><br>Garland drains / catch drains of appropriate size around the mine working pit and siltation ponds were constructed to prevent runoff   |

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|     | from the settling tanks shall be allowed to discharge through the first order streams to join nearby natural drains. The settling tanks shall be cleaned periodically for removal of sediments and such records of cleaning shall be maintained properly.   | water and flow of sediments.<br><br>The sediments in garland drains and siltation ponds were cleared periodically and records of cleaning are being maintained. (Annexure 12) |
| 24) | Garland drains proposed on the non-moving sides of the Dump yards shall be connected to settling tanks to arrest any wash off sediments from the dumps and only overflowing clean water shall be allowed to discharge through the first order streams. The settling tanks shall be of sufficient dimensions to hold the wash offs in one rainy season and has to be cleaned before every rainy season.  | <b>Complied.</b><br><br>Garland drains of appropriate size were constructed along the mine working area to prevent run off of water of flow of sediments. (Annexure 12)       |
| 25) | Conservation plan furnished to protect the scheduled flora and fauna in the core and buffer zone of the project site shall be implemented. Scheduled species of fauna found in the study area shall be monitored closely.   | <b>Complied.</b><br><br>No Scheduled fauna /flora exist in the core and buffer zone of the project. Hence, no Conservation Plan is envisaged.                                 |
| 26) | Annual monitoring on Bio-diversity around the project site shall be conducted and a report shall be furnished.  | <b>Complied.</b><br><br>Annual monitoring on Bio-diversity around the project site is conducted.  |
| 27) | Greenbelt shall be raised including a 7.5 m wide statutory barrier all around the mining lease, reclaimed and rehabilitated areas around water body, roads etc. by planting the Native species in consultation with the local DFO / Agriculture Department. The ultimate area to be planted afforested shall not be less than 15.993 ha. Greenbelt shall be developed all along the mine lease area in a phased manner as per the approved mining plan. | <b>Complied.</b><br><br>Greenbelt raised for a 7.50m width all around the mining lease in a phased manner from the year of January 2020.                                      |

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| 28) | Green belt shall be provided as per norms of MoEF& CC, GOI in consultation with local DFO.  | Complied.<br><br>Green belt is developed as per norms of MoEF & CC, GOI in consultation with local DFO.  |
| 29) | The project authority shall implement suitable water conservation measures including rain water harvesting system to augment ground water resources in the area in consultation with the Regional Director, State Ground Water Board.   | Complied.<br><br>The rain water is being collected in the sump at the bottom most bench of the Mine Pit. The water stored in the sump itself is help to augment ground water recharge. (Annexure -13 )   |
| 30) | The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/ deviation /violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and (iii) System of reporting of non-compliance violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders. | Complied.<br><br>The copies of Corporate Environmental Policy (CEP) and the salient features of the CEP have been submitted to MoEFCC, Delhi and the Regional Office of MoEFCC, Chennai.<br><br>we have IMS (Integrated Management system), in which, Quality, Environment, Energy, Occupational health & safety were covered. |
| 31) | A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests, Government of India, New Delhi in advance of 5 years prior to the final mine closure for approval. Mine closure procedure shall be followed as per the approved mining plan.   | Complied.<br><br>A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the SEIAA, TN , 5 years in advance, prior to the final mine closure for approval. Mine closure procedure will be followed as per the approved Mining Plan.   |

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| 32) | Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.   | <p><b>Complied.</b></p> <p>Piezometer installed in two Borewells to monitor ground water level. Further, there is no extraction of ground water.</p> <p>At Present, the mining activity has not intersected the ground water table.<br/>(Annexure 8)</p> |
| 33) | Mining should be carried out taking into consideration all aspects of mineral conservation.   | <p><b>Complied.</b></p> <p>All the aspects of mineral conservation have been considered while carrying out the mining operation.</p>   |
| 34) | The suitable measures to allow the existing drainage to flow to the nearby area or lake if any stream is found in the near vicinity of the mining area.   | <p><b>Complied.</b></p> <p>The suitable measures to allow the existing drainage to flow to nearby area are being made.</p>   |
| 35) | Effective water quality management of the surface and ground water quality studies shall be carried out systematically in a sustainable manner to ensure that the ground water quality is neither depleted nor deteriorated.  | <p><b>Complied.</b></p> <p>Effective water quality management of the surface and ground water quality studies were carried out systematically in a sustainable manner to ensure that the ground water quality.</p>                                       |
| 36) | The mining activity involves intersection ground water and it was reported that 173 cu.m/day mine seepage water will be Collected in the sump adequate capacity and allowed to settle in the pond. Clear water after meeting the permissible limit of Bureau of Indian standards for drinking and irrigation purpose, bailed out water will be discharged into nearby water bodies for irrigation. For bailing out 173 cu. m/day of mine seepage water, project proponent has to get necessary permission from central ground water authority. If applicable. | <p><b>Complied.</b></p> <p>At Present the mining activity has not intersected the ground water table.</p>  |
| 37) | Necessary permission should be obtained from the competent  | <p><b>Complied.</b></p>  |

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|     | authority for discharge of bailed out water into nearby water bodies for irrigation. After achieving permissible limits of Bureau of Indian standards for drinking and irrigation.   | At Present the mining activity has not intersected the ground water table.   |
| 38) | All the condition imposed in the proceedings of the commissioner of geology and mining vide R.c.No.7135/MM1/2010 dated 09.01.2017 should be strictly followed.   | <b>Complied.</b><br>All the condition imposed in the proceedings of the commissioner of geology and mining vide R.c.No.7135/MM1/2010 dated 09.01.2017 are strictly followed. |
| 39) | The limestone & marl produced from the mining lease area will be for captive purpose only.   | <b>Complied.</b><br>We are using the limestone & marl produced from the mining lease area is being used for captive purpose only.  |
| 40) | Scientific studies related to noise and ground vibration shall be carried out involving reputed government institutions like IIT, NIT, Anna University, Chennai for the usage of rock breakers and to carry out controlled blasting activities in the mine even if sporadically.   | <b>Complied.</b><br>Scientific studies related to noise and ground vibration was carried out involving Anna University, Chennai.   |
| 41) | The executive engineer, PWD/WRD, Marudaiyar Basin Ariyalur vide letter number 37m/DB/F.14(A)/2018 dated 13.02.2018 states that the mining lease area and recommended with a condition of providing 50m for Uppuodai right bank boundary limit, 50m for Marudaiyar river left bank boundary limit, 50m for Periyapadayatcheri boundary limit, 50m for poonkudikuttai boundary limit However the SEAC felt that the 50m, safety distance is not sufficient for Marudaiyar River. Hence, the project proponent has to provide a total of 100m safety distance from boundary of the Marudaiyar River Course this | <b>Complied.</b><br>The safety distance of approximate 130 meter against the 100 m has been provided from the Marudaiyar River course to the mining pit.                     |

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|     | should be ensured by the District level task force.  |   |
| 42) | <p>The study recommended for hydrological modeling and water quality analysis through the centre for water resources (CWR) Anna University, Chennai should be strictly followed. The recommendation are detailed below:</p> <p>a. The mine seepage water will be collected in the sump located in the bottom of the mine pit. This sump will act as the settling pond also. Supernatant clear water confirming to the limit will be pumped out to the nearby tanks.</p> <p>b. Carrying out regular monitoring of mine discharge water quality before discharging into nearby tanks.</p> <p>c. Water chemistry of mine discharge must be carefully considered and suitable in situ water treatment methods should be adopted for the controlling the turbidity, pH and total hardness if needed.</p> <p>d. Piezometer of two numbers (at least) shall be installed by CCCPL in different directions for regular monitoring of the ground water level and its quality during the actual course of mining operations.</p> | <p><b>Complied.</b></p> <p>Hydrological modeling and water quality analysis study was conducted through CWR, Anna University, Chennai</p> <p>a. At Present, the mining activity has not intersected the ground water table. The mine seepage water collected the sump located in the bottom of the mine pit &amp; settling pond also.</p> <p>Supernatant clear water was used for domestic purpose, dust suppression on roads and green belt development.</p> <p>b. Regular monitoring of water quality being are being carried out.</p> <p>c. Water chemistry of mine discharge are being carefully monitored.</p> <p>d. Piezometers (2 nos) are installed in two directions for regular monitoring of ground water level.</p> |
| 43) | Ground water quality monitoring should be conducted every month and the report should be submitted to TNPCB.   | <p><b>Complied.</b></p> <p>Ground water quality monitoring is conducted every month by NABL accredited Laboratory and the same submitted to TNPCB.</p>  |
| 44) | The operation of the quarry should no way impact the water bodies, agricultural activity, and habitation surrounding the project site.   | <p><b>Complied.</b></p> <p>No impact on the water bodies, agricultural activity, and habitation due to Mining.</p>  |
| 45) | Transportation of the quarried materials shall not cause any   | <b>Complied.</b>  |

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|     | hindrance to the Village people/Existing Village road.   | No hindrance is caused by transportation of the quarried materials to the Village people/ Existing Village road.  |
| 46) | All the commitment made in the proposal with respect to bailing out of water, rain water harvesting, installation of Piezo meter monitoring of ground water quality, green belt development, etc should be strictly followed | Complied.<br><br>Piezometers installed in two directions for regular monitoring of ground water level. Green belt development being done regularly and ground water quality being monitored regularly. (Annexure 8) |
| 47) | The Project Proponent shall comply with the mining& other rules and regulations where ever applicable.   | Complied.<br><br>All Mining and other rules and regulations are being complied and will be complied till the end of mining Operations.  |
| 48) | The quarrying activity shall be stopped if the entire quantity indicated in the mining plan is quarried even before the expiry of the quarry lease period and the same shall be monitored by the District Authorities.       | will be complied.   |
| 49) | To Ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.   | Complied.<br><br>Security guards are being engaged during the entire period of mining operation.  |
| 50) | The mining Closure plan submitted by the project proponent shall be strictly followed after the mine activity is lapsed as reported.   | Complied.<br><br>Mining closure plan will be submitted and strictly followed as per the guidance.   |

**Conditions for Post-Construction / Operation phase & Entire life of the project:**

| No. | Conditions (Post Construction Phase) | Compliance Status |
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| 1) | The pits left unfilled in an area shall be converted into water body. The higher benched of excavated void/ mining shall be terraced and plantation shall be done to stabilize the slopes.  | Complied.<br>As per the approved mining plan, mined out area left will be converted as water reservoir, at the end of the life of mine. The Plantations were carried out in benches and properly fenced to avoid unauthorized entry into the pit.  |
| 2) | There should not be any impact to the nearby water bodies due to seepage from the proposed mine.  | Complied.<br>The water bodies including natural drainage system areas are not disturbed due to seepage from the proposed mine. Further there is no extraction of ground water.   |
| 3) | There should not be any disturbance to the plantation in and around the mining area due to the proposed activity.   | Complied.<br>No disturbance to the plantation in and around the mining area due to the mining activity.  |
| 4) | The proponent shall plant the green belt area with more indigenous species for bio diversity enhancement in consultation with local DFO.<br>a. The mutual agreement signed between M/s. Chettinad Cement Corporation Private limited & M/s. Dalmia cement Bharat Limited shall be registered before commencement of the mining operation. This should be ensured by the District Collector. | Complied.<br>Green belt area being developed by planting the more indigenous species like Pungan, Vembu, MalaiVembu, and Maikondrai for Biodiversity enhancement in consultation with Local DFO.<br>ML area : 32.295 ha<br>Saplings planted so far : 16,472.00<br>Extent of existing greenbelt area : 8.10 ha<br>Tree Density : 2000 /ha<br><br>(Annexure 6) |
| 5) | As far as possible, the mining should be on sustainable basis, ensuring the reserves are not unduly over harvested and mining should spread over the years, ensuring sustainable mining.  | Complied.<br>Mining has been carried out by systematic and scientific manner with sustainability for the proposed rate of average production of 0.5 Million MT per annum. (As per the approved mining Plan)  |
| 6) | The Mining site shall be monitored during entire mining period by establishing at least two stations and the Air quality shall be monitored twice in a week.  | Complied.<br>The monitoring of ambient air quality and fugitive emissions is being carried out regularly through the NABL Accredited Laboratory. (Annexure 10)   |
| 7) | Pumping of water if available in the common storm water area should not impact the neighboring agricultural activities nor affect the ground water availability and alter the ground after  | Complied.<br>At present, the mining activity has not intersected the ground water table.   |

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|     | flow by any means.  |   |
| 8)  | Any storm water leaving the site shall be settled within the mining area by providing adequate settling tank so that there shall not be any carryover of residue to the surrounding land or water bodies. | Complied.<br><br>The rain water accumulated during monsoon period in the mine pit during plan period pumped out into the settling pond on the south eastern side and ultimately after settling the water utilized for green belt development and dust suppression activities. |
| 9)  | There has to be a thorough risk assessment and disaster assessment plan in place.   | Complied.<br><br>We have prepared thorough risk assessment and disaster assessment plan for all mining operations.  |
| 10) | Preventive measures and problems due to occupational mine diseases should be displayed in vernacular language for understanding to the workers.   | Complied.<br><br>Preventive measures and problems due to occupational mine diseases, is displayed in vernacular language.   |
| 11) | Workers shall be examined every month by practiced physician, results shall be documented and required medical facilities shall be extended to labour force at the cost of the proponent.                 | Complied.<br><br>We have provided the required medical facilities to all workers every month by practiced physician, results are being documented.  |
| 12) | Anti vibration devices shall be provided to the vibrating tools and equipments to be used by workers during mining and its usage shall be ensured by maintaining safe limit of vibration impact.          | Complied.<br><br>Heavy Earth Moving Machinery (HEMM) is equipped with ergonomically designed to maintain safe limit of vibration impact.  |
| 13) | All the precautions are to be followed for safety and security. Face masks, helmets, safety shoes, etc., shall be provided to all the workers working in the mining area.                                 | Complied.<br><br>All the safety precautions are being followed and all the personal protective equipments are provided to all the persons employed in mines. (Annexure 14)  |
| 14) | Appropriate fencing and manning of lease area and mine out area shall be done.  | Complied.<br><br>We have provided appropriate fencing and security for lease area and mined out area. (Annexure 15)   |
| 15) | All the recommendations made in the EIA report of the project shall be effectively implemented.   | Complied.<br><br>All the recommendations made in the EIA report of the project are being implemented.   |

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| 16) | A booklet containing the Dos and Don'ts shall be prepared in vernacular languages for the use of the mine engineers/ managers and the workers to ensure that all necessary environmental, safety and health measures are undertaken.   | Complied.<br><br>A booklet containing the Do's and Don'ts in the form of Safe Operating Procedure is prepared in Tamil language and same issued to all the employee of the mine.                            |
| 17) | CER funds of Rs. 6.60 lakhs shall be spent for Karaivetti Bird Sanctuary, Ariyalur District for maintenance and beatification purpose. The aforesaid amount shall be paid in the form of Demand Draft to District forest officer, Ariyalur. The above said amount shall be spent before applying Consent from TNPCB.   | Complied.<br><br>CER funds of Rs.6.60 Lakhs already been paid in the form of Demand draft vide no. 077494, dt: 28.08.2019 to DFO, Ariyalur for maintenance and beautification of Karaivetti Bird sanctuary. |
| 18) | The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and Forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.  | Complied.<br><br>Use of one time throwaway plastics is completely banned in our Mines boundary. Awareness sign board were kept within ML area enclosed as( Annexure-16)                                     |
| 19) | It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance, and also before commencement of production.  | Complied.<br><br>Half yearly (Six month) compliance report is being submitted in hard and soft copies .   |
| 20) | No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any. | Complied.<br><br>No expansion or modernization was carried out in site. No deviations or alterations in the proposed mining lease are considered.   |
| 21) | All the environmental protection measure and safeguards as recommended in the EIA report shall be complied with.   | Complied.<br><br>All the environmental protection measure and safeguards as recommended in the EIA report were implemented.   |
| 22) | The implementation of the project vis-a-vis environmental action plans   | Complied.   |

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|     | shall be monitored by the Regional Office of MoEFat Chennai/TNPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.  | Six monthly compliance status report is being submitted regularly to MOEF &CC at Chennai, TNPCB & CPCB.  |
| 23) | Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional Office of MoEF at Chennai. TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO <sub>2</sub> and NO <sub>x</sub> outside the premises at the appropriate place for the general public. | <b>Complied.</b><br>The monitoring of quality of ambient air and fugitive emissions taken up and the data on ambient air and fugitive emissions regularly submitted to the Regional office of MOEF &CC at Chennai, TNPCB and CPCB in both hard copies as well as in soft copy once in six months. The Monitoring data is displayed outside the premises at the appropriate place for the general public. |
| 24) | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Mines Act.  | <b>Complied.</b><br>Occupational health surveillance of the workers is done on a regular basis and records also is maintained as per Mines Act.  |
| 25) | The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.   | <b>Complied.</b><br>First aid room and facilities provided in Mine entrance and medical records also be maintained separately for each person.   |
| 26) | The overall noise levels in and around the mining area shall be kept well within the standards prescribed for by providing noise control measures on all sources of noise generation. The ambient noise level should conform to the standards prescribed under EPA Rules, 1989 viz. 55 dBA (day time) and 45 dBA (night time).                         | <b>Complied.</b><br>Monitoring of ambient noise levels is being carried out.<br>Workers engaged in Operators of HEMM are provided with Ear plugs/muffs. (Annexure 17)  |
| 27) | Hydro geological study of the area shall be reviewed annually and report submitted to the Authority.No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the operation of the Mining activity.   | <b>Complied.</b><br>Hydro geological study of the area is reviewed annually and report submitted to the Authority.<br>No water bodies including natural drainage system in the area is disturbed due to mining activities.   |
| 28) | CSR activity shall be implemented as committed by drawing a scheme for social up liftmen in the surrounding villages with reference to contribution in road construction, providing sanitation facilities, drinking water supply in the government schools nearby, community awareness, establishment of health  | <b>Complied.</b><br>CSR activity implemented as committed by drawing a scheme for social up liftment in the surrounding villages with reference to the contribution in road construction providing sanitation facilities, drinking water supply in the government schools nearby , community awareness etc.  |

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|     | centers, water supply to nearby villages and employment to local people whenever and wherever possible both for technical and non-technical jobs and protection of water sources around the project site etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on implementation shall be furnished regularly.  | Funds earmarked for CSR activity used for that purpose only and separate account is being maintained at organization level ( Annexure 18 )   |
| 29) | A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.   | <b>Complied.</b><br><br>A Separate environmental and safety arrangement cell is created to take care of EHS function and head of the cell is directly reporting to head of the organization for complying the environmental and safety regulation and implementing pollution control and occupational health & Safety measures.  |
| 30) | The requisite amount earmarked forwards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.  | <b>Complied.</b><br><br>The funds earmarked for environmental protection measures are kept in separate account and used to implement the Environment Management Plan as furnished in the EIA report.   |
| 31) | The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, RSPM, SO <sub>2</sub> , NO <sub>x</sub> or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | <b>Complied.</b><br><br>The status of compliance of the environment clearance conditions is being uploaded in the company website and will be updated periodically.<br><br>The same is being simultaneously be sent to the regional office of the Ministry of Environment and Forest & Climate change, Chennai, the zonal office of central pollution control board, Bengaluru and the Tamilnadu pollution control board.<br><br>The pollutant levels namely RSPM, SO <sub>2</sub> , NO <sub>x</sub> (in the ambient air) being monitored and uploaded in the company website periodically. The environmental monitoring data displayed at a convenient location near the main gate of the company in the public domain. |
| 32) | The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data  | <b>Complied.</b><br><br>Six monthly report on the status of compliance of the environmental clearance (both in hard copies as well as by e-mail) is being submitted to the SEIAA , TN & the regional office of the MoEF& CC  |

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|     | (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chennai/CPCB/SPCB shall monitor the stipulated conditions.   | Chennai , the Zonal office of Central Pollution Control Board , Bengaluru and the Tamilnadu Pollution Control Board.   |
| 33) | The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF& CC by e-mail. | <p>Complied.</p> <p>The environmental statement for financial year ending 31<sup>st</sup>March 2023 In Form – V is submitted to the Regional office of MOEF, forest &amp; Climate change, Chennai on 26.09.2023.</p> <p>The same will be displayed on the website of the company and sent to the respective regional office of the Ministry of Environment, Forest &amp; Climate change, Chennai by e-mail. The Status of compliance of Environment clearance conditions are submitted to the respective Regional Offices of the MoEF&amp; CC.<br/>( Annexure 19 )</p> |
| 34) | Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.   | Assured to abide by this condition.  |
| 35) | The SEIAA, TN may alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.   | Assured to abide by this condition.  |
| 36) | The SEIAA/SEAC reserves the right to add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF& CC located at Chennai.   | Assured to abide by this condition.  |
| 37) | The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.   | Assured to abide by this condition.  |
| 38) | The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notifications, 2006, if, at any stage of the validity of this environmental clearance, if, it is found or if it comes to the knowledge of this SEIAA, TN that the project   | Assured to abide by this condition.  |

|     |   |                                     |
|-----|---|-------------------------------------|
|     | proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.   |                                     |
| 39) | Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.  | Assured to abide by this condition. |
| 40) | The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and Rules made there under and also any other orders passed by Hon'ble Supreme Court of India /Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter. | Assured to abide by this condition. |
| 41) | This clearance is issued with respect to only environmental considerations and it does not imply that SEIAA approved the way which lease is granted to the project. While granting lease, the concerned authority shall ensure compliance of relevant rules, Regulations, Notification, Government resolutions, circulars, Judgment/orders of Hon'ble Court and NGT, etc.,  | Assured to abide by this condition. |

For Chettinad Cement Corporation Private Limited

  
R. P. Muthiah  
Vice President (Works)

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CCCPL: AW: AUDIT: 2022-23

06.04.2023

To  
The Assistant Director  
Geology & Mining,  
Collectorate,  
Ariyalur.



Dear Sir,

Sub : Mines &amp; Minerals – Audit of Accounts for the year ending 31.03.2023 – Reg.

We are enclosing the statement pertaining to audit for the year ending 31.03.2023 along with Form – I register and photocopies of challan for the remittance made by us in respect of the following mines.

| Sl.No. | Name of the Mine               | G.O./RC.No.   |
|--------|--------------------------------|---|
| 01.    | Aminabad                       | RC.No: 9220/MM4/ 2003, Dated : 22.09.03                         |
| 02.    | Aminabad                       | RC.No:10994/MM1/ 2007, Dated : 07.11.2008                       |
| 03.    | Alanthuraiyarkattalai          | RC.No: 7479/MM4/ 2003, Dated: 09.10.2003.                       |
| 04.    | Unjini                         | G.O.3(D) No.35 Industries (MMA2) Department, Dated : 01.03.2004 |
| 05.    | Pudupalayam                    | G.O.Ms.No:27 Industries (M2)Department, Dated: 11.01.1989       |
| 06.    | Pudupalayam                    | RC.No: 462/MM1/2009, Dated : 24.12.2009                         |
| 07.    | Kaliankurichi                  | RC.No:9534/MM1/2010,Dated: 05.02.2013.                          |
| 08.    | Karuppur(Senapathy)            | RC.No:7134/MM1/2010, Dated : 05.02.2013.                        |
| 09.    | Pudupalayam -Edayathankudi     | RC.No:7133/MM1/2010,Dated : 08.02.2013.                         |
| 10.    | Nakkambadi                     | RC.No:9533/MM1/2010, Dated:05.02.2013.                          |
| 11.    | Arungal                        | RC.No:10047/MM1/2008, Dated : 19.03.2012                        |
| 12.    | Sendurai                       | RC.No:2390/MM1/2009, Dated : 17.04.2015                         |
| 13.    | Karuppur(Senapathy) Keelapalur | G.O.MS.No.133Industries(MMA2)Department, Dated:17.10.2016       |
| 14.    | Periyathirukonam               | RC.No.7135/MM1/2010,Dated:09.01.2017                            |

We request you to kindly acknowledge the receipt of the above and issue us the audit certificate and Mining due clearance certificate for the year ending 31.03.2023 at your earliest convenience.

Thanking you

Yours faithfully,

For Chettinad Cement Corporation Pvt. Ltd.,

Deputy General Manager (Mines)

**Chettinad Cement Corporation Private Limited**  
(formerly Chettinad Cement Corporation Limited)  
Ariyalur Trichy Road, Keelapalur Post,  
Ariyalur Dist - 621707, Tamilnadu, India.  
T + 91 4329 250009  
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947  
Regd.Office : Rani Seethal Hall Building,  
603, Anna Salai, Chennai - 600 006.  
T + 91 44 2829 2727, 42951800 (100 lines)  
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com  
www.chettinad.com



CCCPL: AW: AUDIT: 2021-22



13.07.2022

To  
The Assistant Director  
Geology & Mining,  
Collectorate,  
Ariyalur.

Dear Sir,

Sub : Mines & Minerals – Audit of Accounts for the year ending 31.03.2022 – Reg.

We are enclosing the statement pertaining to audit for the year ending 31.03.2022 along with Form – I register and photocopies of challan for the remittance made by us in respect of the following mines.

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| 04.    | Unjini                         | G.O.3(D) No.35 Industries (MMA2) Department, Dated : 01.03.2004 |
| 05.    | Pudupalayam                    | G.O.Ms.No:27 Industries (M2)Department, Dated: 11.01.1989       |
| 06.    | Pudupalayam                    | RC.No: 462/MM1/2009, Dated : 24.12.2009                         |
| 07.    | Kallankurichi                  | RC.No:9534/MM1/2010,Dated: 05.02.2013.                          |
| 08.    | Karuppur(Senapathy)            | RC.No:7134/MM1/2010, Dated : 05.02.2013.                        |
| 09.    | Pudupalayam -Edayathankudi     | RC.No:7133/MM1/2010,Dated : 08.02.2013.                         |
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| 14.    | Periyathirukonam               | RC.No.7135/MM1/2010,Dated:09.01.2017                            |

We request you to kindly acknowledge the receipt of the above and issue us the audit certificate and Mining due clearance certificate for the year ending 31.03.2022 at your earliest convenience.

Thanking you

Yours faithfully,

For Chettinad Cement Corporation Pvt. Ltd.,

13/7/22  
Deputy General Manager (Mines)

**Chettinad Cement Corporation Private Limited**  
(formerly Chettinad Cement Corporation Limited)  
Ariyalur Trichy Road, Keelapalur Post,  
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CIN : U93090TN1962PTC004947  
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603, Anna Salai, Chennai - 600 006.  
T + 91 44 2829 2727, 42951800 (100 lines)  
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com  
www.chettinad.com

**Periyathirukonam Lime Stone Mines [32.295 Ha]  
Compliance of Notification published by MoEF&CC on 12.08.2021  
Single Use Plastic Ban Awareness Board installed**



**Single Use Plastic Ban Awareness for Periyathirukonam Mines Employees & Workers**

