



IS / ISO 9001: 2008  
IS / ISO 14001:2004  
IS 18001: 2007  
Certified Company

## **THE RAMCO CEMENTS LIMITED**

(formerly known as Madras Cements Ltd.)

Govindapuram, Sendurai Road,  
Ariyalur Taluk – 621713  
Ariyalur District, Tamilnadu, India  
Phone: 04329 – 226001 to 226003  
Fax: 04329-226005  
CIN: I 26941TN1957PI C003566

27.09.2018

To  
The District Environmental Engineer,  
TamilNadu Pollution Control Board,  
Ariyalur.

Sir,

Sub: Submission of PeriyanaGalur Limestone Mine- Environmental Statement  
(Form-V) for the Year 2017-18 –Reg.

We, M/s. The Ramco Cements Limited, Govindapuram Works, Ariyalur are  
herewith submitting the Environmental Statement (Form- V) for the Year 2017-18 in  
respect of PeriyanaGalur Limestone Mine along with the Annexures.

Thanking You,  
Yours Faithfully

**For The Ramco Cements Limited,**

**G.R.MAGESH**  
Sr.DGM (MINES)

**Encl: As above.**

FORM V

ENVIRONMENTAL STATEMENT FORM - V

(See Rule - 14)

PERIYANAGALUR LIMESTONE MINE.

Environmental statement for the financial year ending with 31<sup>st</sup> March 2018

PART - A

1. Name and address of the Owner/ Occupier of the industry : Periyaganalur Limestone Mine.  
The Ramco Cements Limited,  
Govindapuram Works,  
Sendurai Road,  
Ariyalur.  
Phone : 04329- 294400  
Fax : 04329-226005  
E-mail address : magesh@ramcocements.co.in

2. Industry Category Primary (STC Code) Secondary - SIC Code):

3. Production Category - Units : 9,00,000 tonns/Annum.

4. Year of Establishment : 2008

5. Date of last Environmental statement submitted : 2016-17

PART -B

I. WATER & RAW MATERIAL CONSUMPTION

a. Water Consumption in M<sup>3</sup>/day

| Source      | During previous<br>Financial Year<br>2016-17 | During the Current<br>Financial Year<br>2017-18 |
|-------------|--|---|
| a. Process  | Nil  | Nil   |
| b. Cooling  | Nil  | Nil   |
| c. Domestic | 2500 Ltrs ( 2.5 M <sup>3</sup> /day)         | 2500 Ltrs ( 2.5 M <sup>3</sup> /day)            |

b. Water Consumption per unit of output: **Not applicable.**

| Name of Products | Water Consumption per unit of production in M <sup>3</sup> /MT |   |
|------------------|--|---|
|                  | During previous Financial Year 2016-17                         | During the Current Financial Year 2017-18 |
| -                | -  | -   |

II. Raw material Consumption:

| Name of Raw material | Name of Products | Consumption of Raw materials per Unit of out put |   |
|----------------------|------------------|--|---|
|                      |                  | During previous Financial Year 2016-17           | During the Current Financial Year 2017-18 |
| Limestone            | -                | 824731 Tonnes                                    | 797279 Tonnes                             |

Industry may use codes if disclosing details of raw material would violate contractual obligation. Otherwise all Industries have to name the raw material used.

### **PART - C**

Pollution discharged to Environment/Unit out put(Parameters as specified in the Consent issued)

**NOT APPLICABLE**

| Pollutants | Quantity of Pollutants discharged(mass/day) | Concentration of pollutants discharged (mass/Volume) | Percentage of variation from prescribed standard with reasons |
|------------|---|--|---|
| a. Water   | SEPARATE SHEET ENCLOSED - ANNEXURE -2       |  |   |
| b. Air     | SEPARATE SHEET ENCLOSED - ANNEXURE -1       |  |   |

## **PART - D**

### **Hazardous Wastes**

(As specified under Hazardous wastes (Management and Handling) Rules - 1989)

| Hazardous Wastes                     | Total Quantity in(Kg)                  |   |
|--------------------------------------|--|---|
|                                      | During previous Financial Year 2016-17 | During the Current Financial Year 2017-18 |
| a. From Process                      | NIL                                    | NIL                                       |
| b. From Pollution Control facilities | NIL                                    | NIL                                       |

## **PART -E (SOLID WASTE)**

| Solid Wastes  | Total Quantity in(MT)                  |   |
|---|--|---|
|   | During previous Financial Year 2016-17 | During the Current financial Year 2017-18 |
| a. From Process   | 283258 Tonnes                          | 534351 Tonnes                             |
| b. From Pollution Control facilities  | NOT APPLICABLE                         | NOT APPLICABLE                            |
| c.Quantity recycled or reutilized with in the unit:<br>Solid :<br>Disposed: | 283258 Tonnes                          | 534351 Tonnes                             |

## **PART-F**

**Please specify the characteristics (in terms of concentration and quantum)of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste:**

Hazardous Waste is not generated during Mining operation. Top soil, and Overburden waste like micaceous sandstone are being generated during Mine development. Part of the overburden has been dumped all along the periphery of the M.L B as bund on which the topsoil has been spread over to form a Green Belt development. The remaining overburden so far removed has been disposed systematically by terrace method of dumping with an angle of repose not more than 45° to maintain the stability of the dumps. At the foot of the dumps silt arresting bunds are formed and dump slopes will be stabilized by plantation. The solid waste removed during the year 2017-18 has been utilized for backfilling on the North Eastern of the Mining Lease Area.

## PART-G

### Impact of the Pollution Control Measures taken on Conservation of Natural Resources and consequently on the Cost of Production:

In Mining operation there is an impact on Air and Water and it has been closely monitored as per the Norms of MOEF. Quarterly monitoring of air, water, noise being carried out to assess the impact of mining and the following control measures has been taken. Dust suppression process is being regularly done by using water Tankers. Peripheral afforestation, green belt development works on dumps and along roads also helps in arresting the dust. (Annexure-3-Photos)

| <i>YEAR</i>  | <i>NO OF PLANTS PLANTED</i> | <i>AREA IN Ha</i> | <i>LOCATION</i>  | <i>SURVIVAL %</i> | <i>Species Name</i>   |
|--------------|-----------------------------|-------------------|--|-------------------|---|
| 2006-07      | 1600                        | 1.00              | ALL ALONG THE MINING LEASE BOUNDARY DUMP SLOPES ,MINES OFFICE, HAUL ROAD ETC., | 90                | Pongamia Pinnata, Delanix regia, Millingtonia sp, Peltophorum sp, Ficus religiosa, Thespesia, populania, Azadiracta indica,Samania Saman, Albezzia Lebbek |
| 2007-08      | 1600                        | 1.00              |  | 90                |   |
| 2008-09      | 2400                        | 1.50              |  | 90                |   |
| 2009-10      | 10000                       | 2.70              |  | 90                |   |
| 2010-11      | 6000                        | 2.50              |  | 90                |   |
| 2011-12      | 11000                       | 2.50              |  | 90                |   |
| 2012-13      | 5000                        | 2.00              |  | 90                |   |
| 2013-14      | 4000                        | 2.00              |  | 90                |   |
| 2014-15      | 3000                        | 3.00              |  | 90                |   |
| 2015-16      | 500                         | 0.50              |  | 90                |   |
| 2016-17      | 1000                        | 1.00              |  | 90                |   |
| 2017-18      | 1000                        | 1.00              |  | 90                |   |
| <b>Total</b> | <b>47100</b>                | <b>20.70</b>      |  |                   |   |

#### i) Impact of Pollution Abatement on Conservation:

##### A) Water Consumption:-

Water is being used to arrest the dust suppression on Haul road, Moreover it is being used for Green Belt Development and Environmental maintenance Activites.

##### B) Compliance with Effluent Discharge Standards:

Not applicable.

##### C) Maintenance of Ambient Air Quality :

Quarterly monitoring of air, water and Noise is being monitored at working places, on haul roads and mine roads etc. These results are referred and whenever these results exceed the safe limit corrective measures will be taken to control all these parameters.

**D)Solid Waste Reuse:**

It is nothing but Topsoil and over burden in the form of micaceous sandstone which is being removed and dumped separately. Moreover, the waste removed during the year 2017-18 has been used for backfilling on the North Eastern side of the Mining Lease Area.

**ii. Impact of Pollution Abatement on cost of Production:**

Overall cost incurred for pollution abatments measures is very less compared to other mining cost. Hence the impact of pollution abatement on the cost of production is negligible.

**PART - H**

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

Fugitive emission from all sources is being controlled and regularly monitored. Haul roads are adequately water sprayed through high pressure water spraying arrangement. Both side haul road plantation is being maintained.

The hauling unit used for Limestone transportation is ensured for leak proof and also covered on the top by tarpaulin to avoid dust generation.

We have located 9 continuous AAQ monitoring stations in core and buffer zone areas preferably in the pre dominant wind direction.

Air monitoring is conducted as per the revised Ambient Air Quality standards as per MOEF Notification dated 16.11.2009.

**PART-I**

**Any other particular in respect of Environment protection and abatement of Pollution:**

1. Extensive green belt.
2. Regular monitoring of Air, Water and Noise survey
3. Regular maintenance of Vehicle and reduce emission levels.
4. Water spraying for dust suppression
5. Reclamation work under progress.
6. Use of top soil for raising plantation

**For THE RAMCO CEMENTS LIMITED,**



**G.R.MAGESH  
Sr.DGM(MINES)**