

ISO 9001 ISO 14001 IS 18001 ISO 50001
Certified Company

THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)

P.A.C.Ramasamyraja Nagar, Alathiyur Works
Cement Nagar (PO)
Ariyalur District, Pin Code – 621 730
Tamil Nadu, India
Phone : STD - 04329
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Fax:00 91 4329 248303
E-Mail:mclair@ramcocements.co.in

Geo / Ltr / 38 / 2016-17
24.09.2016

To,



The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
99 A, Ethiraj Nagar,
Rajaji Nagar Post,
Ariyalur – 621 713.

Sir,

Sub: Submission of Form V for the year 2015-16 – Reg.

We are herewith sending the Environmental statement in Form V with annexure for the year 2015-16 of our Alathiyur Limestone Benefication Plant of The Ramco Cements Limited, Alathiyur.

Thanking You
For **The Ramco Cements Limited,**


 **S.Ramalingam,**
VP (Mfg)

Copy to

The Additional principal Chief Conservator of forest (C),
Ministry of Environment & Forest,
Regional office (South zone),
No.34, Cathedral Garden Road,
Nungambakkam, Chennai-34.

**ENVIRONMENT STATEMENT FORM-V
(See rule 14)**

ALATHIYUR LIMESTONE BENEFICATION PLANT

Environment Statement for the financial year ending with 31st March 2017 for the Alathiyur Limestone Benefication Plant of Manakudayan & Adanakurichi for over an extent of 10.92.6 Ha.

PART-A

- (i). Name and address of the Owner/ Occupier of the Industry : **P.R.Venkatrama Raja**
M/s. The Ramco Cements Limited.,
Auras Corporate Centre
98-A, V floor, Dr.Radhakrishnan Road
Mylapore, Chennai-04.
- (ii). Operation or process : Process
- (iii). Industry category Primary- (STC Code) Secondary - (STC Code) : Red Large
- (iv). Production capacity - Units. : 2.40 MTPA
- (v). Year of establishment : 25th Jun 2015
- (vi). Date of the last environment Statement submitted. : 24/09/2016

PART-B

Water and Raw Material Consumption:

- (i). Water consumption in KL/day
Process : 1.8 KL/day
Cooling : Nil
Domestic : Nil

Name of Products	Process water consumption per unit of products	
	during the previous financial year	during the current financial year
1. Limestone	0.26 KL/T	0.25 KL/T

(ii). **Raw material consumption: Not applicable**

Name of Raw materials*	Name of products	Consumption of raw material pre unit of output	
		during the previous financial year	during the current financial year
1. Very Low Grade Limestone	Limestone	580073 Tons	255861 Tons

Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C
Pollution discharged to environment/unit of output : Not Applicable

(Parameter as specified in the consent issued) Annexure I&I (A)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
a).Water	-	-	-
b).Air	-	-	-

PART-D
HAZARDOUS WASTES: Not applicable
 Specified under Hazardous Wastes (Management & Handling Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	during the previous financial year	during the current financial year
1) From Process	-	-
2) From Pollution Control Facilities	-	-

PART-E
SOLID WASTES: Not Applicable

Solid Wastes	Total Quantity (Tons)	
	during the previous financial year	during the current financial year
(a) From Process	428309	222876
(b) From Pollution Control Facilities	-	-
(c). Quantity recycled or re-utilized within the unit	-	-

PART-F

Please specify the characteristics in terms of concentration and quantum of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

Waste from the beneficiation process comprising screened rejects, Tailing from thickener are the major solid waste from this plant. It is periodically dumped back in to the mined out voids.

PART-G

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

The Beneficiation Plant Technology is environment – friendly operation with better ore recovery in which screening, scrubbing, dewatering and separation of product and rejects. In this process no fugitive dust emission due to wet process. The waste water will be reused /recycled to the maximum possible extent and as such no water pollution. Chemicals are not used for washing. Hence no environmental impact on Air, Water and Noise. However we are regularly doing water spraying arrangements at consent interval for Dust suppression all along haul roads. Apart from that regular monitoring of air, water, noise is being carried out to assess the impact of process of washing plant to plan and control measures.

i. Impact of Pollution Abatement on Conservation:

A) Water Consumption:-

The washing plant is designed in such a way that out of 700 M³ / Hr requirement of water for 20 hours in which 88.6% of water is recovered from by means of dewatering screens cyclones, and thickener and it is being reused for two streams. The remaining 11.4% of water is being topped up which is around 80 M³ / hour and 1652 M³ for 20 hours /day for two steam. During the financial year we have consumed 151756 M³ for the generation of product of 580073 Tonnes. Apart from that we have consumed meager quantity of water for Green Belt development and dust suppression for Haul road.

B) Compliance with Effluent Discharge Standards:

Not applicable.

C) Maintenance of Ambient Air Quality:

Regular monitoring of air, water and Noise is being monitored at working places, on haul roads and mine roads etc. Fugitive emission from all sources is being controlled and regularly monitored. Haul roads are adequately water sprayed through high pressure water sprinkling arrangement. Both side haul road plantation is being maintained. These results are referred and whenever these results exceeds the safe limit corrective measures will be taken to control all these parameters. **(Annexure I)**

i) Solid Waste Reuse:

It is nothing but Topsoil and over burden which is being removed and dumped separately. After exhaustion of mineral the mined out pit will be backfilled by this solid waste. Topsoil will be used for peripheral plantation.

ii) Impact of Pollution Abatement on cost of Production:

Overall cost incurred for pollution abatements 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 environment protection including abatement of pollution.

Fugitive emission from all sources is being controlled and regularly monitored. Haul roads are adequately water sprayed through high pressure water sprinkling 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 are using belt conveyor system to transport Limestone from crusher to Limestone stocker. Hence the dust generation has been with in the standards prescribed by TNPCB.

We have located 10 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.

The company is fully equipped to follow the ISO 14001 standards of Environment Management System.

PART-I

MISCELLANEOUS

Any other particulars in respect of environmental protection and abatement of pollution.

- 1. Extensive green belt with the help of local SHG**
- 2. Regular monitoring of Air, Water and Noise survey**
- 3. Regular maintenance of Vehicle and reduce emission levels.**
- 4. Water sprinkler for dust suppression**
- 5. Use of top soil for raising plantation**
- 6. Engaging growing of fish in water storage pits**
- 7. Planning to develop Jatropha (Bio Diesel Plan) farms in near future**

ANNEXURE: I

- 100 % usage of environmental friendly surface mining machinery to avoid drilling and blasting and primary crushing, thus saving in power and fuel
- Enviro-Friendly MMD crusher for less vibration and power saving
- 6 Kms fully covered conveyor belt system from Mine to Plant to minimize air pollution
- Green all along our boundary and haul roads
- Recharge pits with aesthetic beauty to maintain the ground water level

YEAR	NO OF SAPLINGS
2014-15	250
2015-16	0
2016-17	0

* CSR Activities are Common for Alathiyur Unit.