



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

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

THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)

25th Sep 2018

To
The Member Secretary,
Tamil Nadu Pollution Control Board
76, Mount Salai, Guindy
Chennai - 32

Dear Sir,

Sub: - Environmental Statement for the financial year 2017-18 – Reg.

We hereby submit the form V duly filled with regard to the Environmental Statement for the financial year 2017 – 2018 for our Captive power plant.

The necessary annexure are enclosed along with Form-V. Kindly acknowledge on the receipt.

Thanking You,

Yours Faithfully,

For **THE RAMCO CEMENTS LIMITED**

C. Ravichandran
Asst. Vice President (Admin)

CC: -
The Joint Chief Environmental Engineer
Tamilnadu Pollution Control Board,
No.-25, SIDCO Developed Plots,
Thuvakudy, Trichy – 620015

The District Environmental Engineer
Tamilnadu Pollution Control Board,
99-A, Ethiraj Nagar,
Railway Station Road,
Ariyalur-621713

ANNEXURE – XII (refer page – 25)

ENVIRONMENTAL STATEMENT FORM – V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2018

PART – A

- I. Name and address of the owner / Occupier of the industry operation or process. **C. RAVICHANDRAN
The Ramco Cements Limited
Govindapuram works
Sendurai road, Ariyalur - 621713**
- II. Industry category Primary – (STC Code) Secondary – (STC Code) – Red
- III. Production capacity – Units **66MW (Captive Power Plant)**
- IV. Year of establishment **60 MW – 2011
6 MW - 2015**
- V. Date of last environmental statement submitted **25.09.2017**

PART – B

Water and Raw Material Consumption:

I. Water Consumption in m3/d

Process : **Nil**

Cooling : **190 KLD**

Domestic : **7 KLD**

Name of Products	Process water consumption per unit of products	
	during the previous financial year	during the current financial year
Electric Power	N.A	N.A

II. Raw material consumption

S.No	Name of raw materials *	Consumption of raw materials per unit of output	
		during the previous financial year	during the current financial year
1.	Imported Coal	0.45 T/MWH	0.58 T/MWH

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

PART – C

Pollution discharged to environment / unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/ volume)	Percentage of variation from prescribed standards with reasons.
a) Water	Annexure - 1	-	Percentage of variation with the standard norms
b) Air	TPP - 40MW PM – 24 mg/Nm ³ SO ₂ – 259 mg/Nm ³ NO _x – 191 mg/Nm ³ TPP - 20MW PM – 28 mg/Nm ³ SO ₂ – 268 mg/Nm ³ NO _x – 198 mg/Nm ³	-	Percentage of variation with the standard norms

PART – D

HAZARDOUS WASTES

Is 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	N.A.	N.A.
2) From Pollution Control Facilities		

PART – E

SOLID WASTES:

Name of raw materials *	Consumption of raw materials per unit of output	
	during the previous financial year	during the current financial year
(a). From process	22446.54 T	22790
(b). From Pollution Control Facility	N.A.	N.A.
(C). Quantity recycled or re-utilised within the unit (Flyash)	22446.54 T	22790 T

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.

Nil

PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

Nil

PART – H

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

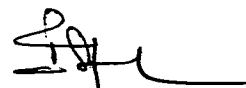
1. We have installed a fully electronic display board in front of the main gate displaying the emission levels to the public.
2. We have connected our stacks & Ambient Air Quality Monitoring system with Care Air Centre of TNPCB, Chennai and CPCB for continuous monitoring of our emission & ambient level. Our effluent parameters are connected online with Water Quality Watch, Chennai and CPCB for continuous monitoring of effluent parameters.
3. Installed online monitoring of NOx and SOx gas analyzer in stack exhaust and connected with Care Air Centre of TNPCB, Chennai and CPCB.
4. Installed Electro Magnetic Flow Meter in ETP and provided a computer recording arrangement which is working effectively.

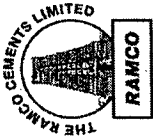
PART – I

MISCELLANEOUS:

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

1. Implemented the Energy Management System IS/ISO 50001:2011 (EnMS) Certification from Bureau of Indian Standard valid till March 2020.
2. Implemented the Quality Management System IS/ISO 9001:2015 (QMS), Environmental Management System IS/ISO 14001:2015 (EMS) and renewal of Occupational Health and Safety Management system IS 18001:2007 (OHSMS) Certification obtained from Bureau of Indian with validity period till Oct 2020.
3. Massive Green belt developed in factory and colony. The green belt is developed using treated water from our sewage treatment plant.
4. Housekeeping is being constantly maintained throughout the Plant & also obtained.





IS / ISO 9001: 2008
IS / ISO 14001:2004
IS 15003: 2007
Certified Company

Govindapuram, Sendurai Road,
Ariyalur Taluk - 621713
Ariyalur District, Tamilnadu, India
Phone: 04329 - 226001 to 226004
Fax: 04329-226005

THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)

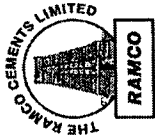
Annexure - 1

Consolidated Report of Analysis of the Trade Effluent samples Collected by TNPCB officials.

Effluent Treatment RO Plant Permeate & Reject samples

S.No	Parameters	Unit	Month / Date of Collection											
			26/05/17		24/06/17		21/07/17		24/08/17		11/08/17			
			Permeate	Reject	Permeate	Reject	Permeate	Reject	Permeate	Reject	Permeate	Reject		
1	pH	5.72	7.72	5.81	7.92	6.06	7.65	5.59	7.31	6.43	8.10			
2	Total Suspended Solids	Mg/l	2	4	4	6	2	4	2	2	4			
3	Total Dissolved Solids	Mg/l	26	1980	28	1810	32	1726	20	1438	26	1858		
4	Chlorides as (Cl)	Mg/l	14	202	8	155	7	200	11	305	8	170		
5	Sulphates as (SO ₄ ²⁻)	Mg/l	9	283	9	264	12	407	2	160	2	283		
6	Oil and Grease	Mg/l	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL		
7	B O D at 27° C for 3 days	Mg/l	2	3	2	3	3	4	2	3	2	3		
8	C O D	Mg/l	8	64	8	32	16	56	8	24	8	16		
9	Total Phosphate	Mg/l	<MDL	0.23	<MDL	<MDL	<MDL	0.19	<MDL	<MDL	<MDL	<MDL		

[Handwritten Signature]
Office Permeate (Administration)
Tamil Nadu Pollution Control Board
Chennai



THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)



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

Govindapuram, Sendurai Road,
Ariyalur Taluk - 621713
Ariyalur District, Tamilnadu, India
Phone: 04329 - 226001 to 226004
Fax: 04329-226005

S.No	Parameters	Unit	Month / Date of Collection											
			22/09/17		11/10/17		10/11/17		27/12/17		11/01/18			
			Permeate	Reject	Permeate	Reject	Permeate	Reject	Permeate	Reject	Permeate	Reject		
1	pH	7.39	8.35	5.97	7.76	6.48	8.08	7.23	7.36	6.97	7.86			
2	Total Suspended Solids	2	8	2	8	4	12	2	10	12	25			
3	Total Dissolved Solids	40	1938	20	2022	28	107 2	12	1380	68	1658			
4	Chlorides as (Cl)	6	165	8	138	6	135	6	100	20	200			
5	Sulphates as (SO ₄ ²⁻)	2	182	3	221	2	139	3	197	5	199			
6	Oil and Grease	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
7	B O D at 27° C for 3 days	2	4	2	4	2	5	2	4	3	5			
8	C O D	8	32	8	32	8	24	16	24	16	32			
9	Total Phosphate	<0.03	0.84	<0.003	<0.003	<0.003	0.26	<0.003	0.003	<0.003	0.12			

[Signature]
 U. P. Srinivasan
 Joint Vice President (Administration)
 The Ramco Cements Limited



THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)



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



Govindapuram, Sendurai Road,
Ariyalur Taluk – 621713
Ariyalur District, Taminadu, India
Phone: 04329 – 226001 to 226004
Fax: 04329-226005

S.No	Parameters	Unit	Month / Date of Collection	
			Permeate	Reject
1	pH		5.95	7.16
2	Total Suspended Solids	Mg/I	8	10
3	Total Dissolved Solids	Mg/I	72	1476
4	Chlorides as (Cl)	Mg/I	30	185
5	Sulphates as (SO ₄ ²⁻)	Mg/I	8	134
6	Oil and Grease	Mg/I	<1	<1
7	B O D at 27° C for 3 days	Mg/I	3	5
8	C O D	Mg/I	24	40
9	Total Phosphate	Mg/I	0.14	0.31

(Signature)
 State Pollution Control Board (S.P.C.B.)
 Ariyalur District, Tamil Nadu
 Date: 08/03/18