



Regd No. 256/2002

# INDUSTRIAL WASTE MANAGEMENT ASSOCIATION



## 17<sup>th</sup> Annual General Meeting Annual Report 2018 - 2019





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## Chairman's Message



Dear Members,

I have immense pleasure and profound thoughts to share with you on this magnificent occasion when our organisation, IWMA, is conducting its 17<sup>th</sup> Annual General Body Meeting.

The world celebrated “World Environment Day” on 5<sup>th</sup> June, 2019. The theme was a call for action to stop air pollution which has become a global crisis now. The theme was chosen by China who was the host for World Environment Day 2019. The day was also observed on various social media platforms with the hashtag #Beat Air Pollution.

There are lots of activities which are done by the people in the Environment to develop something for the welfare of the people. The environment is a Natural Thing where people live and do a lot of activities for their own welfare and benefit. People are used to damage and also save the Environment resources by which people are affected due to various bad as well as good effects of the Environment.

People have to save a lot of resources for the future of the Young Generations as it is noted that much of the resources today are getting finished quickly for fulfilling a lot of dreams of the people. It is very important for the people to protect the necessary and available resources for the future.

The Government of Tamil Nadu came out with a ban on plastics from 01<sup>st</sup> January 2019. This glorious movement has to be carried forward until 100% is achieved.

IWMA, as an organization caring environment has achieved a lot during this period, particularly got the in principle land allotment for IHWTSDF at Bargur, Krishnagiri District and completed the EC. This will help our industries to manage their wastes from the western region of Tamil Nadu.

We have to carry forward the movement of Installing Reverse Vending Machines in public places to dispose the plastic bottles. It is really a wonderful technical boon to beat plastic bottles. I thank the entire IWMA team for being enthusiastically travelling in the right direction.

Best wishes to all members



**Mr. K. Baskaran, Chairman, IWMA.**



## Secretary's Message



### SECRETARY'S REPORT

I am very happy to place this report on this historical and auspicious occasion for the year 2018-19. I thank you all for giving me this opportunity. I have enormous pleasure to announce that our organization's member strength is 2,844. This is evident because of our continuous and dedicated service to the industries in the field of Hazardous Waste Management.

### SERVICES OF IWMA

- ❖ Technical clarifications to industries on disposal of Hazardous waste and other Environmental concerns.
- ❖ Providing updates on change in Environment regulations, technologies and best practices to members (through website, E-Mail ,Training Programs and Seminars)
- ❖ Guidance for submission of Consent order application to TNPCB
- ❖ Conducting ETP Operators and Technicians Courses in partnership with SSM polytechnic, Erode.
- ❖ Working with Research and Educational Institutions, Universities and other institutions to solve the problems of Environmental concerns of the industries.
- ❖ Young Environmental Scientist (YES) programme to bring out the innovative thoughts of Students to shape them as projects serving the society as well as industries.
- ❖ ENVIRO – to inculcate and honour the novel ideas of students in art forms to protect Environment.

Best wishes to all members

**Mr. N. Palanisamy, Secretary, IWMA.**

## **OUR OWN NEW OFFICE**

We have occupied our own new office at Koyambedu on 05<sup>th</sup> April, 2019. We have a pride that we conduct our EC Meetings, Training Programmes in this new own venue.

## **CHWTSDF**

### **1. Gummidipoondi Facility.**

After the allotment of Additional land of 26 acres in Gummidipoondi, IWMA along with TNWML triggered the project work for an earlier commencement of the cells 7 and 8. However, inadvertent delay has occurred for obtaining legal approvals. However, IWMA intervened in the right time to protect the disposal chain of our Member Industries, negotiated with TNWML to provide their own TSDF facility at Virudhunagar as a stop gap arrangement. Thanks TNWML for providing us the facility and our member industries cooperated with IWMA for this interim arrangement.

### **2. Bargur Project**

SIPCOT has, in principle allotted the 25 acres land for the Integrated CHWTSDF at Bargur, Krishnagiri District. We have completed the statutory procedures of Environmental Clearance through TNWML and submitted the report to SIPCOT for original allotment. Once the original land is allotted, the work for the establishment CHWTSDF will begin and we hope to commence the facility in 2020. This facility will nurture the needs of our member industries from the Western Region of Tamil Nadu.

### **3. Thoothukudi Project**

Engaged TMWML for conducting EIA. Once the EIA is submitted to the Ministry, EC will be obtained. SIPCOT has allotted the land. Office Bearer's visited the site.

## **TNPCB**

Co-ordination with TNPCB has been strengthened and I am glad to inform you that IWMA is playing a vital role in inventorising Hazardous Waste generated from the industries of Tamil Nadu through TNPCB as per the directives of National Green Tribunal and MoEF & CC. Thanks to the officials of TNPCB who are guiding us on many Environmental aspects.

## **SIPCOT**

IWMA has cordial relations with SIPCOT and periodical updates are being given to SIPCOT . I thank the officials of SIPCOT who cooperate with us towards our objectives.

## **TNWML**

Tamil Nadu Waste Management Ltd, under Ramky Group is our agency in establishing and operating the disposal facilities.

IWMA has revised the user charges during this period and communicated the same to our member industries.



## **16<sup>th</sup> ANNUAL GENERAL BODY MEETING**

Held on 15<sup>th</sup> September 2018 and it was a grand success wherein our Bye Law was amended and the same has been approved by the Registrar of Societies.

## **EXECUTIVE COMMITTEE**

IWMA has a strong and learned Executive Committee consisting of professionals, Industrialists and specialists to guide the organization. IWMA conducts EC Meetings on every month to take timely and appropriate decisions to guide the Secretariat for excellent implementation of the responsibilities.

## **REVERSE VENDING MACHINE**

IWMA decided to buy and sponsor a Reverse Vending Machine at Dr. Puratchithalaivar MGR Bus Terminus in Koyambedu, Chennai to help the people to dispose of the plastic bottles in an environment friendly method. Gift coupons are also planned to be issued to those who drop plastic bottles into the machine. IWMA will further take forward this and to see one or two more machines to be installed.

## **FIRECRACKER DISPOSAL**

Greater Chennai Corporation regularly requests us to accept the Firecracker wastes and dispose it at our CHWTSDF at Gummidipoondi during every Diwali Festival. 85 Tons of firecracker wastes were disposed off during this year. Greater Chennai Corporation is supporting us to reach the students of Corporations Schools for our ENVIRO and YES programmes.

## **TANCEM**

Efforts were made to convince TANCEM to instruct the Cement Industries to accept the Textile Sludge as an alternative fuel. This has been already in practice with one or two cement industries in Tamil Nadu.

In the mean time efforts are in progress to request TNPCB to help IWMA to reach Cement Industries in this regard.

## **CONFEDERATION OF INDIAN INDUSTRIES (CII)**

CII has approached us to help them to dispose the hazardous waste of the industries in Puducherry Union Territory after obtaining appropriate approval and guidance from TNPCB and SIPCOT.

## **YES WINNERS**

As an another mile stone IWMA decided to interact and plan with the winners of YES programme to design and operate a winning project in reality. Discussions are in progress.

## **COMMITTEES OF IWMA**

In the process of moving forward with the aim to see collective decision and individual responsibility, IWMA has formed committees.

### **1. Recruitment Committee**

This committee will help the organization to find out the right talent whenever vacancies arise in the Secretariat.

### **2. Appraisal Committee**

This committee will help the organization to undertake Performance Appraisal for the Secretariat Staff and place the findings to IWMA.

### **3. Election Committee**

This committee is being formed well in advance before the Annual General Body. This will further strengthen the democratic nature of our organization.

## **ACCOUNTS**

IWMA has completely changed its method of accounting and other account related procedures for transparency and excellence.

IWMA has achieved 95% of its payments on line and we are towards cashless transactions.

I request our members to see the accounts wherein we have improved our financial position after the purchase of our own new office and we have sufficient funds in our Deposits. Simultaneously, we are succeeding in our efforts to reduce the expenditures by austerity measures and supervisions.



## EXECUTIVE COMMITTEE FOR THE YEAR 2018-19

<b>Chairman</b> Mr. K. Baskaran Managing Director Aarthi Industries	
<b>Vice Chairman</b> Mr. R. Jagannathan Director Sri Suryodhayaa Processing Pvt. Ltd.	
<b>Secretary</b> Mr. N. Palanisamy Managing Director Aruna Textile Processing Mills	
<b>Joint Secretary</b> Mr. R. Thirugnanam Dy. General Manager Maintenance Simpson & Co. Ltd.	
<b>Treasurer</b> Mr. Suresh Manoharan Executive Director Best Colour Solutions India Pvt. Ltd.	

## **EXECUTIVE COMMITTEE MEMBERS** **FOR THE YEAR- 2018-2019**

<p>Mrs. S. Chellammal          Manager EHS          MTL Instruments Pvt. Ltd.</p>	
<p>Mr. P. A. Madheswaran,          Senior Executive,          VST Tillers Tractors Ltd.</p>	
<p>Mr. Mohan Kottaisamy,          Environmental Officer          C P Aqua Culture India Pvt. Ltd.</p>	
<p>Mr. R. Muruganantham          Proprietor          SRI MURUGANANTHAM TEX</p>	



Mr. K. Natarajan Proprietor Divya Engineering Works	
Mr. P. E. Purushothaman Director SSM Processing Mills Limited	
Mr. C. S. Rajan Vice President Iljin Automotive Private Limited	
Mr. B. Saravanan Deputy General Manager-Facilities, Super Auto Forge Pvt. Ltd.	

Mr. M. Thiyagarajan Asst. Manager – Utilities & Projects Brakes India Ltd. (Unit 36)	
Mr. Senthil Murugan.E Manager – Purchase, Rialto Enterprises Private Ltd.,	

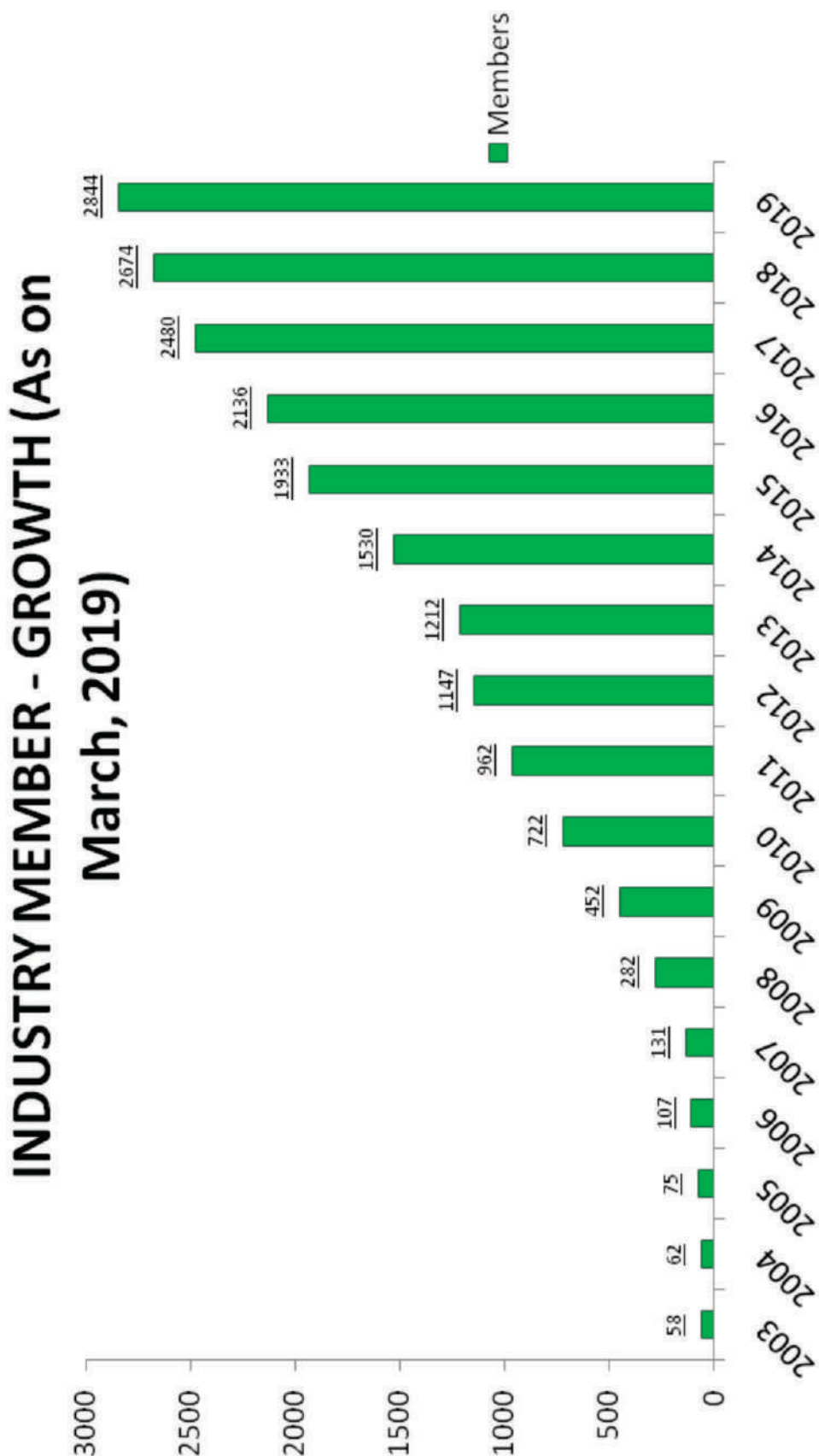
**Auditor** : **Mr. H. Chandrasekaran, Varadarajan & Co.**

**Secretariat:**

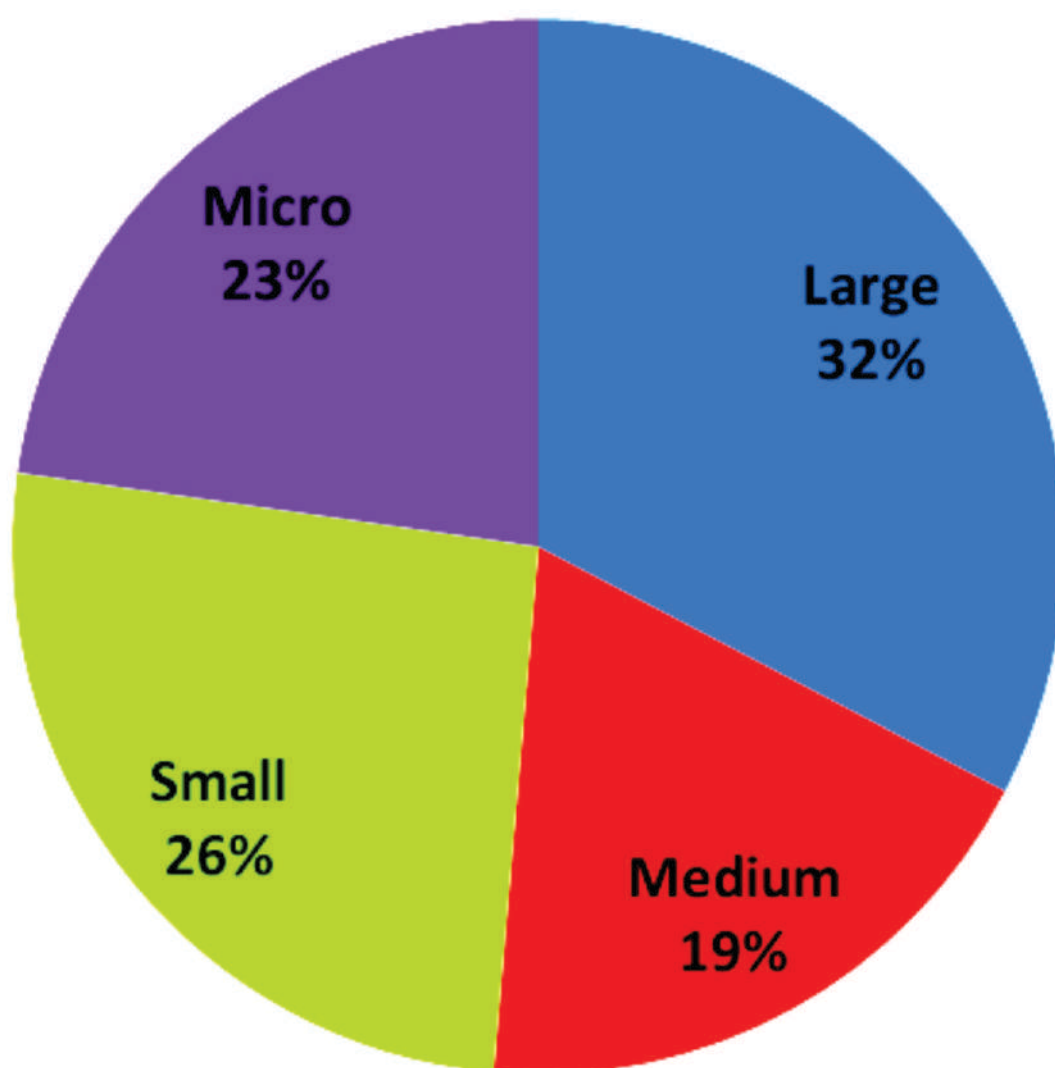
<b>General Manager - Operations</b>	: <b>Mr. R. Venkatasubramanian</b>
<b>Advisor - Projects</b>	: <b>Mr. K. Sivaraman</b>
<b>Assistant Manager - Projects</b>	: <b>Mr. B. Hari Prakash</b>
<b>Assistant Manager - Technical &amp; Training</b>	: <b>Mr. M. Vignesh Raj</b>
<b>Executive - Administration &amp; External Affairs</b>	: <b>Ms. G. Divyakumari</b>
<b>Executive - Program &amp; Training</b>	: <b>Ms. R. Sowmiya</b>
<b>Co-ordinator CZC</b>	: <b>Ms. Sanjelyn Joyson</b>
<b>Accounts Officer</b>	: <b>Mr. Karthik Krishnamurthy</b>



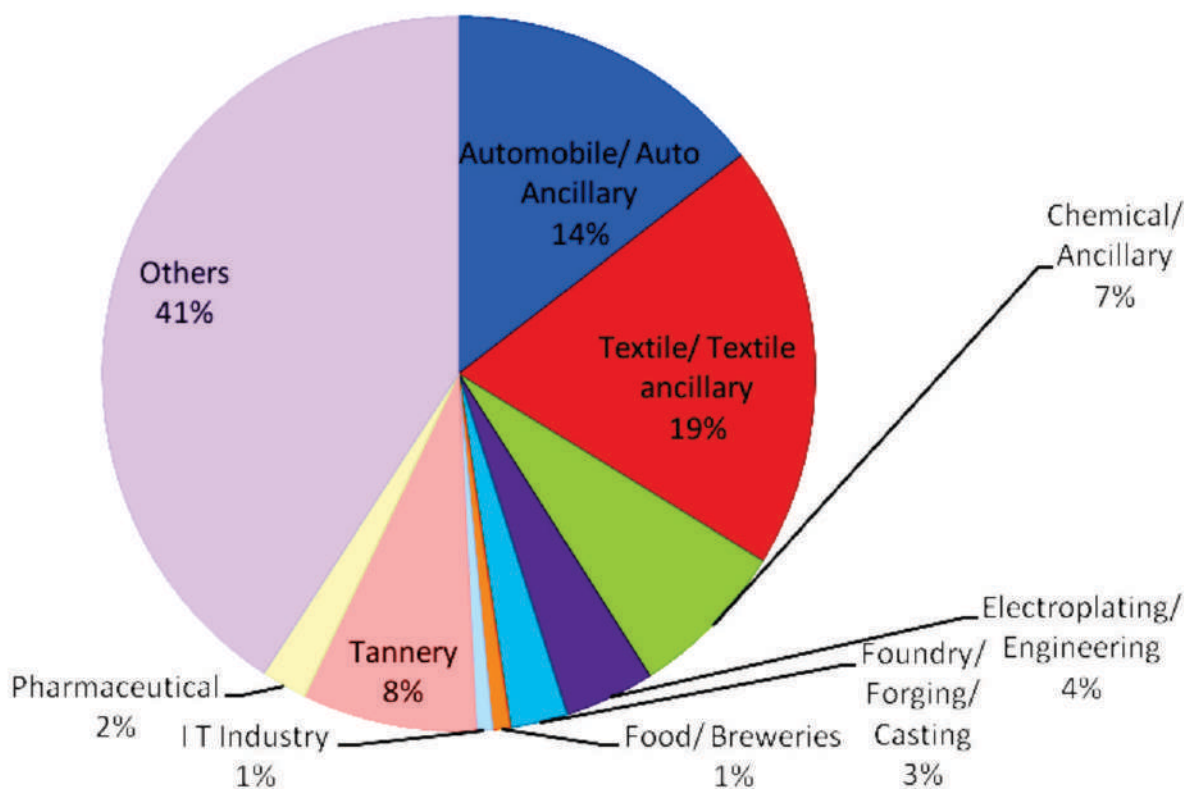
## MEMBERSHIP PROFILE



**INDUSTRY MEMBERS – SECTOR WISE**  
**AS ON 31ST MARCH 2019**



## INDUSTRIAL MEMBERS CATEGORY WISE AS ON 31ST MARCH 2019.



## SEMINARS

IWMA conducted two Seminars during this period. One was during our 16<sup>th</sup> AGM. The other one was at Oragadam.

Mr. G.Ramaraj, D.E.E, Tamil Nadu Pollution Control Board, Sriperumpudur, Kanchipuram District supported us much for the 19<sup>th</sup> December, 2018.

S.No	Date	Program	Course Faculty	Number Of Participants
1	15 <sup>th</sup> September	Initiatives for Green Manufacturing	Many	70
2	19 <sup>th</sup> December	Environmental Regulatory Compliance & Green Management	Many	101





## TRAINING PROGRAMMES

IWMA, as an awareness initiative, conducts training programs for its member industries in order to make its members aware of the environment and the regulations that precede it. The training initiative of IWMA caters the needs of industries by bridging the gap between industries, consultants, academicians and Government. The training programs are conducted at a “No-profit/No- loss” basis for the expenses incidental to each program including hall booking, travel, hand-outs, literature, trainer fee etc.

In continuance of our efforts to conduct training programmes on Environment Management of the member industries. The association has conducted both in-house and out-houses training programs. IWMA has conducted the following training programs during this period. These programmes have focused on small groups to facilitate better understanding and involvement.

S. No.	Date	Topic	No. of participants
1	12 <sup>th</sup> & 13 <sup>th</sup> April 2018	ISO 45001:2018	16
2	30 <sup>th</sup> April	Operation & Maintenance of ETP & STP	37
3	14 <sup>th</sup> May	Energy Management & Conservation	37
4	8 <sup>th</sup> June	Legal & Regulatory Compliance	32
5	12 <sup>th</sup> & 13 <sup>th</sup> July	Legal & Regulatory Compliance	32
6	27 <sup>th</sup> August	Operation & Maintenance of ETP & STP	34
7	5 <sup>th</sup> October	ZLD	27
8	26 <sup>th</sup> October	Environment & amp; Factory Conditioning.	14

9	24 <sup>th</sup> November	Initiatives for Green Manufacturing.	12
10	8 <sup>th</sup> February 2019	Zero waste to landfill	24
11	13 <sup>th</sup> March 2019	Energy Conservation	24

## On-Site Training Program

IWMA conducts onsite training programs in the premises of the industry upon willingness of the industry. Training Faculty along with IWMA Training Staff conducts the Training Program and receives the feedback from the participants for the betterment of the foreseen training programme. The topic of the Training Program is related to Energy Conservation and EMS, participants were given Certificates at the end of the Training Program.

S. No.	Date	Topic	Place	No. of Participants
1.	10 <sup>th</sup> August 2018.	Awareness program on ISO 45001:2018	Salcomp	28
2.	12 <sup>th</sup> October 2018	HIRA study ISO 45001:2018	Salcomp	35
3.	10 <sup>th</sup> & 11 <sup>th</sup> December 2018	Internal Auditor Training ISO45001:2018	Salcomp	32

## CSR ACTIVITIES

### ENVIRO 2018

Every year IWMA in collaboration with Science Olympiad Foundation (SOF) has been conducting ENVIRO-a two day Environmental awareness program for school children since 2009. Competitive events like Story Writing, Quiz & Banner/Poster Designing were held to promote the importance of environment among school children. **Dr. Sivaraman.G, BSMS., Ph.D.**, Writer, Speaker & Siddha Physician. This year, the 10<sup>th</sup> ENVIRO 2018 was conducted at IIT Madras on 28<sup>th</sup> & 29<sup>th</sup> July 2018. Around 150 schools & over 400 students in and around Chennai participated in the following topics related to the environment.

- |  |                |
|--|----------------|
| 1. Logo Designing                      | - Middle       |
| 2. Photo Story Competition             | - Super senior |
| 3. Newspaper Cartoon Strip Competition | - Senior       |
| 4. Fun with Crayons                    | - Junior       |

A Science Awareness Workshop for the YES 2018 (Young Environmental Scientist) program and E-Cap Launch Presentation by Tes-Amm and an another Presentation on Wealth out of Waste , an initiative of ITC (WOW)





## YOUNG ENVIRONMENTAL SCIENTISTS AWARDS - YES 2018

IWMA conducts an inter-school (Classes 6th to 12th) research oriented competition for school children, since 2012, called **YOUNG ENVIRONMENTAL SCIENTIST (YES)**. This is a Quest for young minds, who are intent on shaping tomorrow. **IIT-M mentors** the students and their guides on the modality of Research, viz. Observation, Experimentation, Data Collection & Analysis. The program is run over 6 months from the selection of the project through experiment and data analysis to demonstration. Besides the students, their mentors are also recognized for their contribution.

**YES Awards-2019** was conducted on **27<sup>st</sup> January 2019** at **IC & SR Conference Hall, IIT Madras**. Over 18 projects were presented. **Professor Mangal Sunder, Department of Chemistry, IIT-M, Dr.Daniel Chellappa Senior Scientist, Bhabha Atomic Research Centre (BARC)** was the chief guest for this program. They distributed the awards to the winners.

**Dr.V.Krishnamurthy Associate Professor Dept Of Physics IIT Madras; Dr.Tiju Thomas- Assitant Professor – Department of Matallurgy, IIT Madras; Mr. Mani S-President, Orchid Pharma, Dr.Ravichandran, Sartime Horological** evaluated the projects.





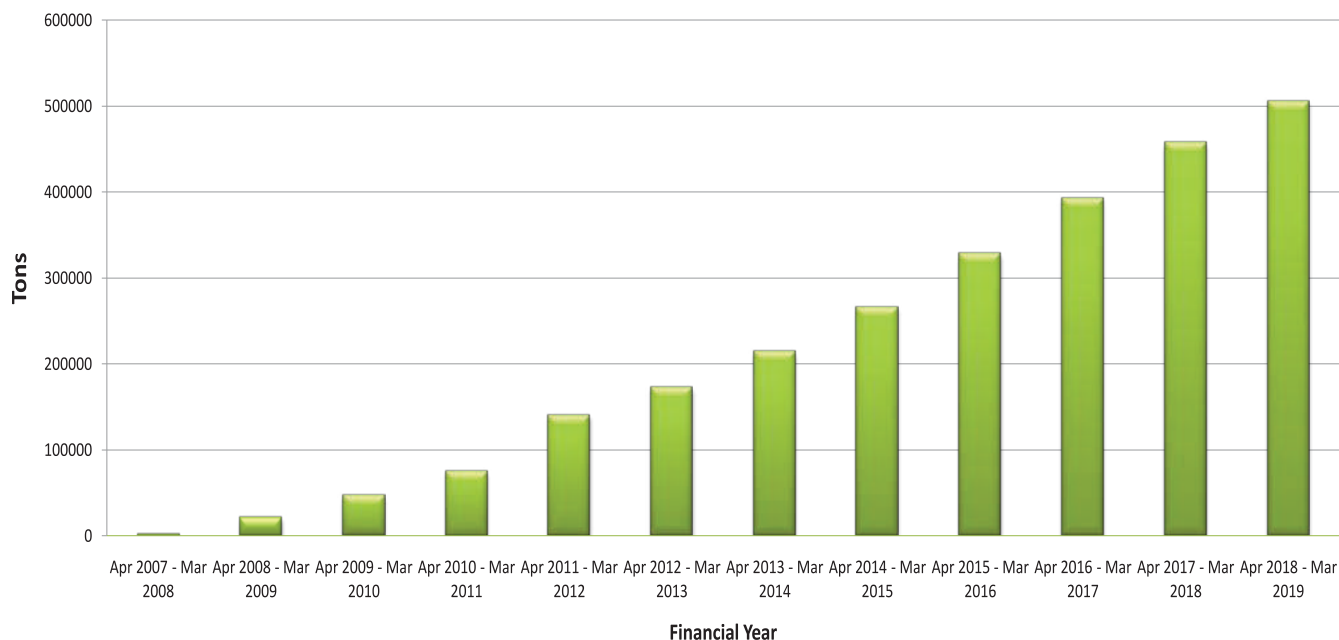


## E-CAP

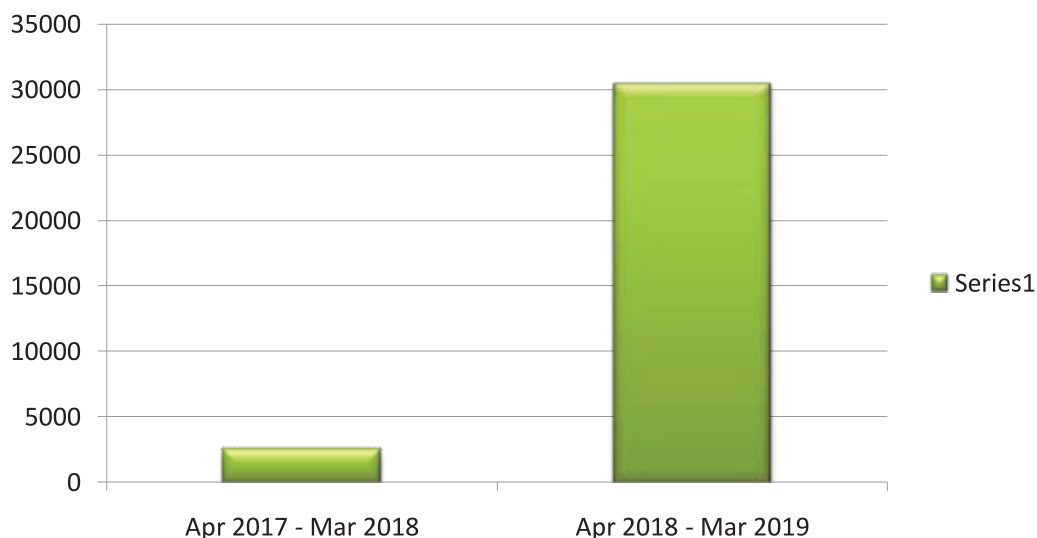
E- CAP is E-Waste Awareness & Collection Program. This program was launched during ENVIRO Program. Schools registered for the program & they asked students to collect E-Waste from their locality. Schools have a common bin for the collection of such wastes. The school which collected more E-Waste was awarded with cash prize and Best Co-Ordinator award.



## HAZARDOUS WASTE DISPOSAL QUANTITY AT CHWTSDF – GUMMIDIPOONDI

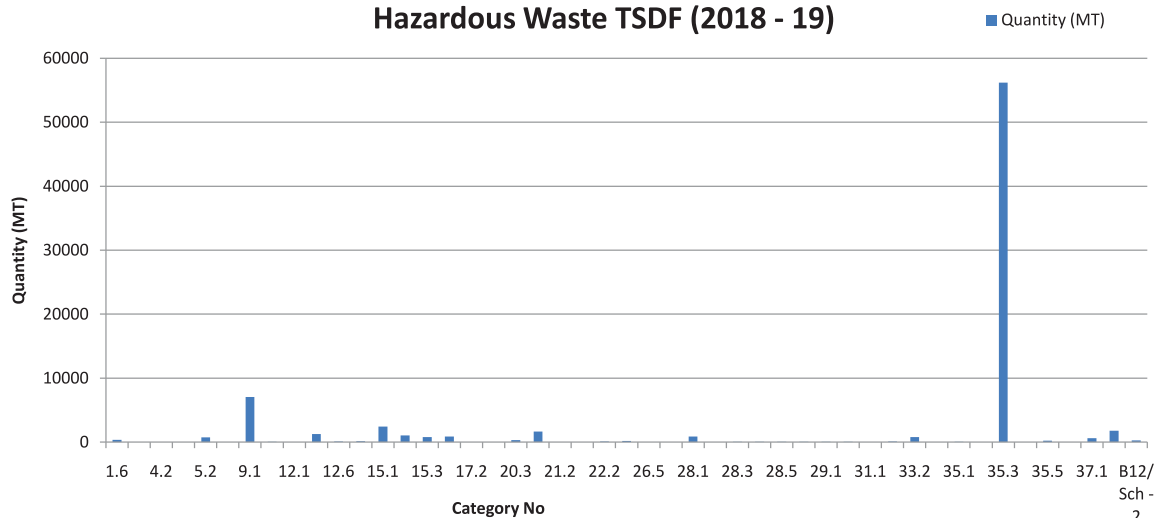


## HAZARDOUS WASTE DISPOSAL QUANTITY AT CHWTSDF - VIRUDHUNAGAR

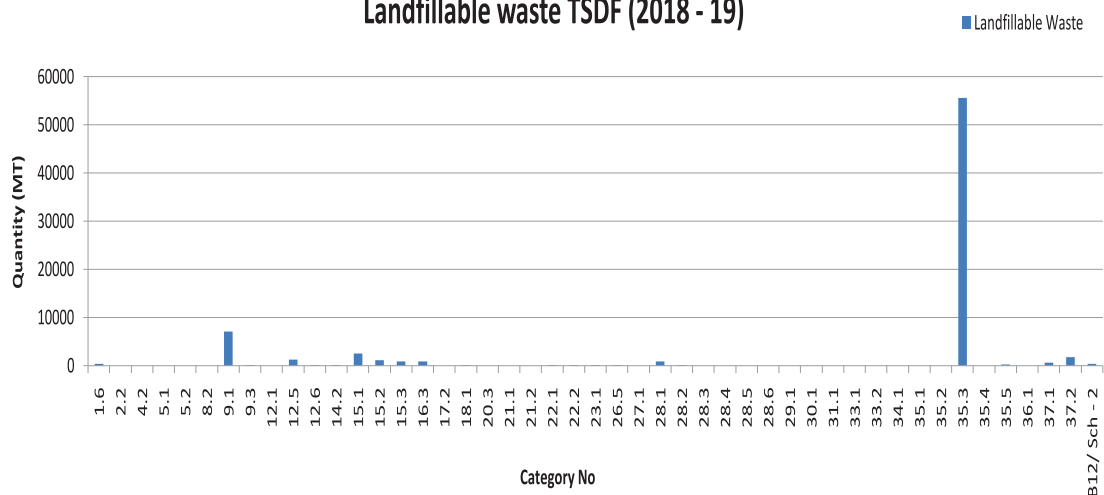


- May 2017 - May 2018 plant is not in operation  
 - June 24<sup>th</sup> 2018 Operation Started

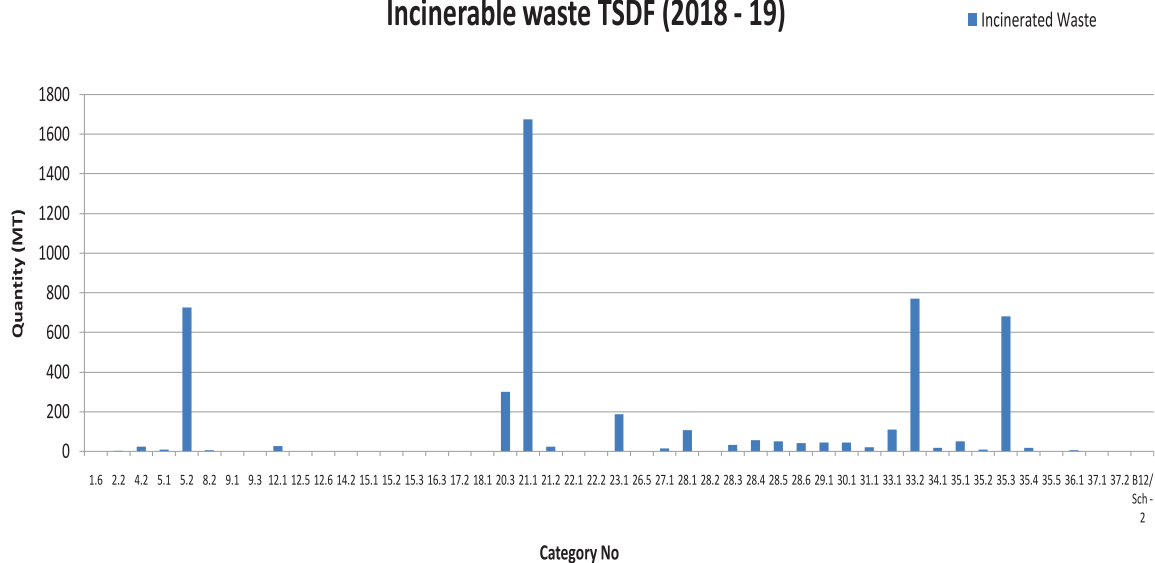
**Hazardous Waste TSDF (2018 - 19)**



**Landfillable waste TSDF (2018 - 19)**



**Incinerable waste TSDF (2018 - 19)**



## COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY (CHWTSDF) ESTABLISHMENT & OPERATION – GUMMIDIPOONDI

<p><b>Common Hazardous Waste Treatment, Storage and Disposal Facility</b></p>	<p><u>Location:</u> SIPCOT, Gummidipoondi Thiruvallur District, Tamil Nadu.</p> <p><u>Land Area:</u> ~ 27 Acres</p> <p><u>Facilities:</u></p> <ul style="list-style-type: none"> <li>• <u>Landfill</u> <u>Disposed quantity:</u> 4.676 Lakh MT Cell 1 - Completed Cell 2 - Completed Cell 3 - Completed Cell 4 - Completed Cell 5 - Completed Cell 6 - Completed Cell 7 - Under Construction Cell 8 - Yet to Construct</li> <li>• <u>Incinerator</u> <u>Disposed quantity:</u> 37,115 MT</li> </ul> <p><u>Capacity:</u> 100,000 TPA for Landfill 1.0 Tons/Hour for Incinerator</p> <p><u>Land Owned by:</u> IWMA</p> <p><u>Service Provider:</u> TNWML, Chennai (Group of Ramky Industries)</p> <p><u>Additional land area:</u> 26 Acres</p> <p><u>Facilities:</u></p> <ul style="list-style-type: none"> <li>• Landfill</li> <li>• AFRF</li> <li>• E - Waste Recycling Facility</li> <li>• Paper &amp; Plastic Recycling Facility</li> <li>• Waste oil/used oil recovery facility</li> <li>• Spent Solvent Recovery Facility</li> </ul>
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## COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY (CHWTSDF) ESTABLISHMENT & OPERATION - VIRUDHUNAGAR

<p style="text-align: center;"><b>Common Hazardous Waste Treatment, Storage and Disposal Facility:</b></p>	<p><u>Location:</u> S.F. No – 135 to 140, 143 to 148, 152 Undurmikidakulam,, Tiruchuli-TK Virudhunagar Dt.-630611 Tamilnadu</p> <p><u>Land Area:</u> ~ 75 Acres</p> <p><u>Facilities:</u></p> <ul style="list-style-type: none"> <li>• <u>Landfill</u> <u>Disposed quantity:</u> 36699 MT (March 2019) Cell 1A - Under process Cell 1B – Under construction</li> </ul> <p><u>Capacity:</u> 240000 TPA for Landfill</p> <p><u>Project Promoter:</u> IWMA &amp; Ramky Enviro Engineers Ltd.</p> <p><u>Service Provider:</u> Tamil Nadu Waste Management Ltd, Virudhunagar</p> <p><u>Consent To Establishment</u></p> <ul style="list-style-type: none"> <li>• AFRF – 10000 TPA</li> </ul> <p><u>Environmental Clearance</u></p> <ul style="list-style-type: none"> <li>• Bio - Medical Facilities</li> <li>• Paper &amp; Plastic Recycling Facility</li> <li>• Waste oil/used oil recovery facility</li> <li>• Spent Solvent Recovery Facility</li> </ul>
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## PROJECTS – Industry Interface

### 1. Foundry Industry:

IWMA along with IIT Madras has been involved in exploring innovative solutions for recycling/reuse of foundry fines generated from foundry process. Several industry and research community interactions were held for a better understanding of the actual problem statement. Characteristic analysis tests for foundry fines are being done.

### 2. Marine disposal of textile residual salt:

IWMA member industries from textile sector requested IWMA to find out a feasible solution for marine disposal of salts generated from effluent treatment plants of IETPs and CETPs. IWMA approached IIT Madras for taking up feasibility study on Marine Disposal of Salts Generated from Effluent Treatment Plants of Textile Dyeing Units. After completion of the study in Nov 2015, IWMA organized meeting with Chairman, Member Secretary and senior officials of TNPCB in Feb 2016 on the subject along with IIT Madras. Further at the behest of TNPCB, IWMA approached National Institute of Ocean Technology (NIOT) for further studies. NIOT suggested that WAPCOS (Govt of India Undertaking, Ministry of Water Resources, River Development and Ganga Rejuvenation) take up the study.

The study has been completed. Final pre-feasibility report prepared by WAPCOS was submitted by IWMA to Tamil Nadu Pollution Control Board (TNPCB) in February 2019. Meeting has been sought with the TNPCB officials for finalizing further course of action.

IWMA has invested around Rs 10 lakhs on this initiative as part of its ongoing efforts to serve textile industry.

IWMA is happy to take up many such initiatives like Item 1 and Item 2 to facilitate their industry members in the coming years.

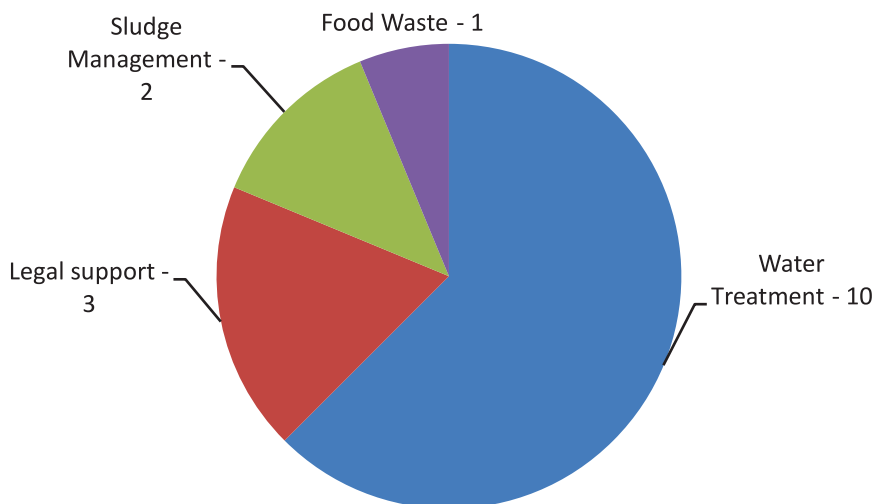
### 3. Industry interface problem statement

IWMA is committed to troubleshooting and solving environmental problems for their member industries with inputs from domain experts.

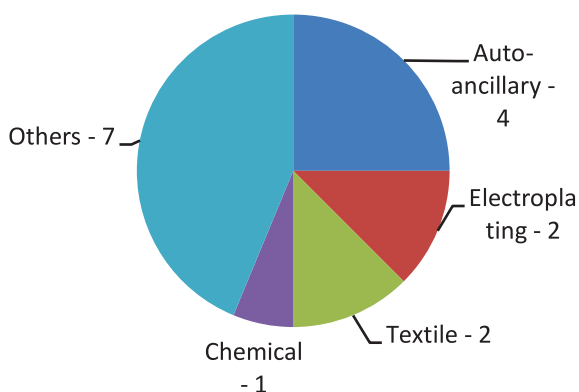
Till date, IWMA has addressed 86 technical queries received from the members to the satisfaction of industry members.

IWMA also approaches industries seeking formal feedback as far as practicable. IWMA is happy to inform that 16 good feedback reports have been received from member industries. IWMA also is pleased to share that all formal feedback reports received have rated the IWMA response and support as good.

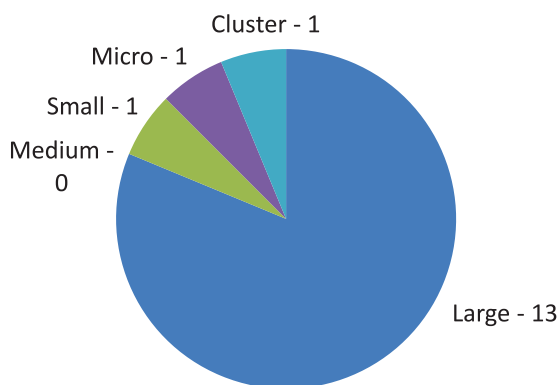
A brief summary of 16 good feedback reports received by IWMA so far,



**Projects - Area**



**Projects - Sectorwise**



**Projects - Scalewise**

## 5. Others

### Center for Urban Buildings and Environment (CUBE) – IIT Madras

CUBE is a centre of excellence established jointly by IIT Madras and Government of Tamil Nadu. IWMA has signed an agreement with CUBE and is in process of initiating projects for solving the industry problems on environment concerns

### PSG Science and Technology Entrepreneurial Park (PSG-STEP)

IWMA is in process of discussion for signing of Memorandum of Understanding with PSG STEP for addressing member industry's concerns.

## **Carbon Zero Challenge – A pioneering initiative on energy and environment**

Carbon Zero Challenge (CZeroC) is a Green Business Idea Competition pioneered by IIT Madras. IWMA is organizing partner.

CZeroC is an All India Energy and Environment Innovation & Entrepreneurship Contest with a vision to “create a global impact by combining three powerful factors Innovation & Entrepreneurship, Energy & Environment and Youth to protect future generations”. The program's motto 'Ideate, Innovate, Incubate' essentially summarize IIT Madras's continuous efforts to enable an ecosystem where students/early stage start-ups from across the country ideate and innovate for the greater good of society and incubate start-ups to become job creators. The contest's uniqueness lies in the fact that it is one-of-its-kind initiative in its category that exclusively focuses on energy and environment technological innovations at a national level and supports the eco-entrepreneurs. CZeroC aims to trigger novel ideas towards developing carbon neutral systems to serve major sectors which are plagued by energy and environmental challenges. The thematic areas are: Agriculture, Industries, Transportation systems, Urban Areas & Cities, and Water & Waste management.

Carbon Zero Challenge (CZeroC) 2019 is the second edition launched on June 5, 2018. Applications were invited from all over India through a massive outreach effort. The organizing team reached out to 2345 people across 944 colleges and 358 incubator in addition to more than 150 companies and 70 startups. The team also reached out to more than 10,000 students, 40,000 IIT Madras alumni and more than 178 colleges through Shaastra, IIT Madras alumni association and NPTEL networks. This outreach effort resulted in 3923 registrations of which 996 teams comprising 3000 individuals from 25 states representing 360 colleges, successfully applied for the competition.

These applications went through two rounds of shortlisting by a panel of judges comprising of subject experts from academia and industry from across the country through multiple rounds of evaluation. A short webinar was provided by Prof. Ashok Jhunjhunwala (Chair Professor, IIT Madras) and Mr. Raghuttama Rao (CEO, GDC, IIT Madras) in October 2018 to guide the judges and align their expectations before the second round of shortlisting. The judges then selected top 24 teams proposing the best problem solution fit for pertinent energy and environmental challenges through a feasible prototype/ product (blueprint/ lab prototype/ product) or service with potential viable business model.

Each of the short listed teams received:

- Structured training to equip the teams with necessary skills required to build a cost effective prototype, identify target customer segments and build a viable business model.
  - Training webinar series on building a technology based business by Dr. Hiran Vedam in October 2018.
  - Webinar on “Evaluating Environmental Effectiveness of Products and Services” by Dr. Ramesh Srinivasan (Founder & CEO& Eco-Catalyst Inc.) in March 2019
  - Webinar on “Assessing Impact Of Early-Stage Climate And Cleantech Startups” by Ms. Jui Joshi (Program manager for Climate Launchpad, South Asia) in March 2019 and April 2019
  - Webinar on “Intellectual Property and You” by Dr. Hiran Vedam in March 2019
  - 2-day Entrepreneurship Bootcamp, IIT Madras, January 2019
- Upto Rs.5 lakh seed funding is released to the teams in a staged manner depending on progress and adequate due diligence to build and test the prototype and evolve their business models.
- Teams also receive dedicated technical and business mentorship

## CZC Team representation at New Delhi





## Carbon Zero Challenge - Glimpse



## Media Coverage for IWMA- April 2018 to March 2019

### Carbon Zero Challenge:



Dailyhunt – 6<sup>th</sup> June 2018



DtNext – 6<sup>th</sup> June 2018



Energy outlook – 6<sup>th</sup> June 2018



United India – 5<sup>th</sup> June 2018



The Hans India – 16<sup>th</sup> July 2018



Web India – 5<sup>th</sup> June 2018





Skill Outlook – 11<sup>th</sup> July 2018



News Wave – 6<sup>th</sup> June 2018



The New Indian Express – 5<sup>th</sup> Aug 2018



India Today – 5<sup>th</sup> June 2018



NDTV – 6<sup>th</sup> June 2018



Deccan Chronicle – 13<sup>th</sup> June 2018

## EC for new Landfill projects:



Home > Cities > Chennai

### Two mega waste management projects in Tamil Nadu get green nod

*The Centre has cleared two mega projects for Tamil Nadu giving a boost to waste management in the Tamil Nadu.*



Published: 22nd July 2018 02:38 AM | Last Updated: 22nd July 2018 03:54 AM



Image used for representational purpose only

CHENNAI: The Centre has cleared two mega projects for Tamil Nadu giving a boost to waste management in the State. An Expert Appraisal Committee (EAC) of Ministry of Environment, Forests and Climate Change have given its nod for setting up of Integrated Common Hazardous Waste Treatment Storage and Disposal Facility at SIPCOT at Gummidipoondi as well as setting up of a Liquefied Natural Gas (LNG) terminal in Ennore.

The EAC has granted Terms of Reference (ToR) for the hazardous waste management facility after Tamil Nadu Waste Management Limited (TNWML) and its consultant Ramky Enviro Services Private Limited gave a detailed presentation on the salient features of the project and informed that TNWML and Industrial Waste Management Association have entered into an agreement to set-up the facility at Export Promotion Industrial Park in SIPCOT industrial complex at Gummidipoondi.

The New Indian Express – 22<sup>nd</sup> July 2018

## ANNEXURE TO AUDITOR'S REPORT

We have examined the annexed Income & Expenditure Account for the year ending 31.03.2019 and the Balance Sheet as at the above date of 31.03.2019, of **INDUSTRIAL WASTE MANAGEMENT ASSOCIATION**, Registration No. 256/2002 with the Books of Account and vouchers relating thereto and report that:

- a) Receipts and disbursements are properly and correctly shown in the accounts ;
- b) The Cash balance and vouchers in the custody of the Association on the date of the audit were in agreement with the accounts ;
- c) All books, deeds, accounts, vouchers and other documents or records required by us were produced before us ;
- d) The Accountant appeared before us and furnished necessary information required by us;
- e) No property or funds of the association are applied for any object or purpose other than the objects of the Association;
- f) No money of the Association has been invested contrary to the provisions of Section 11(2) of the Income Tax Act, 1961.
- g) No alienation of the immovable properties is made.

**Place : Chennai**

**Date : 03-09-2019**

**For VARADARAJAN & Co.**

**CHARTERED ACCOUNTANT**

**-sd-**

**H.CHANDRASEKARAN**

**PARTNER**



## AUDITOR'S REPORT

**To the Members of M/s. INDUSTRIAL WASTE MANAGEMENT ASSOCIATION.**

### **Report on the Financial Statements**

We have audited the accompanying financial statements of M/s. INDUSTRIAL WASTE MANAGEMENT ASSOCIATION, which comprise the Balance Sheet as at March 31, 2019, Income and Expenditure Account for the year ended 31<sup>st</sup> March 2019.

### **Management's Responsibility for the Financial Statements**

The Executive Committee of the Association are responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and cash flows of the Association in accordance with the accounting principles generally accepted in India. This responsibility includes maintenance of adequate accounting records in accordance with the generally accepted accounting principles and the provisions of the Societies Act for safeguarding the assets of the Association and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; design, implementation and maintenance of adequate internal financial controls, that are operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We have taken into account the provisions of the Act, the accounting and auditing standards and matters which are required to be included in the audit report under the provisions of the Act and the Rules made there under. We conducted our audit in accordance with the Generally accepted Auditing Principles and the Societies Act. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor



considered the Audit report on internal financial control over financial reporting, that give a true and fair view, in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the Association's Executive Committee, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

## **Opinion**

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Association as at 31st March 2019, its surplus for the year ended on that date.

## **Report on other matters**

We further report that:

- a) we have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- b) in our opinion proper books of account as required by law have been kept by the Association so far as appears from our examination of those books;
- c) the Balance Sheet, Income and Expenditure Account account dealt with by this Report are in agreement with the books of account;
- d) in our opinion, the aforesaid financial statements comply with the generally accepted accounting principles in India.
- e) In our opinion and to the best of our information and according to the explanations given to us, we report as under with respect to other matters:-
  - i. The Association does not have any pending litigations which would impact its financial position

- i. The Association did not have any long-term contracts including derivative contracts; as such the question of commenting on any material foreseeable losses thereon does not arise

**For Varadarajan & Co.,**  
**Chartered Accountants**  
**Firm Registration No. 04515S**

**-sd-**

**H. Chandrasekaran**  
**Partner**  
**Membership No: 022821**  
**UDIN - 19022821AAAADS6315**  
Place: Chennai  
Date: 03-09-2019

## STATEMENT OF AFFAIRS AS ON 31.03.2019

31.03.2018		LIABILITIES		31.03.2019		31.03.2018		ASSETS		31.03.2019	
18,084,366	21,421,420	Infrastructure Fund	21,421,420	24,976,819	24,976,819	32,264,092	Fixed Assets	-	32,124,151		
3,337,054		Add: Additions during the year	3,555,399			27,200				Staff Advance	27,200
21,421,420		Less: Deletions During the Year	24,976,819								
12,675,129	13,763,484	Surplus o/b.	13,763,484	26,980,815	Fixed Deposit	10,000,000	-	10,000,000			
1,088,355		Add: Excess of Income over Expenditure	5,624,510	5,000,000					Add: Additions during the year	10,000,000	
				31,980,815					Less: Matured during the year	10,000,000	
	109,000	Current Liabilities			Add: Accrued Interest	10,000,000	-	10,000,000			
		Audit Fee Payable	75,000						Less: Interest received	-	
		Consultation Fee Payable	-	-							
	59,000	Expenses Reimbursement	11,999		Accrued Interest on FD	256,937		10,000,000			
		Stale Cheques	1,940								
	18,493	TDS PAYABLE	356,654								
		Duties and Taxes	445,593	1,062,000	Rental Advance	702,000	702,000	702,000			
		Sundry Creditors	342,221	360,000	Less: Rent Advance Adjusted						
		woodtech interiors									
	90,692	Ideasoftech			Net Sundry Debtors	80,000	92,526	92,526			
	53,400										
	26,280,100	Tamil Nadu Waste management	38,240,100	26,082,200	Payment to Sipcot for Additional Land	38,042,200	38,042,200	38,042,200			
				359,819	TDS	286,204					
				13,082	Cash in Hand	5,960					
	61,795,589			2,258,357	Cash at Bank	1,824,942	1,824,942	1,824,942			
				8,639	- SBI (Admin)	8,839					
					- SBI (Intra)	21,768					
			83,392,727	61,795,589	- Kotak Mahindra bank	83,392,727		83,392,727			

**For Industrial Waste Management Association**

**Sd/-**  
**Treasurer**

# 17<sup>th</sup> Annual General Meeting - Report

## INDUSTRIAL WASTE MANAGEMENT ASSOCIATION

409 Ten Square Mall 3rd Floor

64 Jawaharlal Nehru Salai, Koyambedu - 600107

### INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2019

31.03.2018	EXPENDITURE	31.03.2019	31.03.2018	INCOME	31.03.2019
324,146	To Enviro Programme Expenses	18,927			-
	To Enviro Honarium	7,750	641,000	By Seminar Fees	337,250
	To Enviro Programme Certificates	42,530		By Advance Receipts	632,395
	To Enviro Programme Conveyance	6,332	106,698	By Registration fees received	101,000
	To Enviro Programme Expenses Hall Rent	43,130		By Promotion	10,000
	To Enviro Programme Food	113,410		By Technical Service fees	25,000
	To Enviro Programme Gift	135,566			
	To Enviro Programme Photo Expenses	20,000	1,009	By Miscellaneous income	
	To Enviro Programme Prizes	12,250	500,300	By Training Fees Received	350,903
				By Enviro Programme Income	
	To HWTSDf Audit Expenses	7,055		By TDS on Enviro Programme Expenses	
	To HWTSDf Food Expenses	1,566	500,000	By Sponsorship Income	180,000
	To HWTSDf Hotel Expenses	3,882			
	To HWTSDf Travel Expenses	66,002		By Subscription Income	240,620
			7,037,204	-Large	7,273,125
203,701	To Project Consultant Wapcos	428,875	1,729,300	-Medium	1,992,187
	To Project Consultant Sartime	86,960	1,070,757	-Small	989,639
	To Project Sponsorship Expenses	18,523	229,549	-Tiny	399,750
	To Project Travel	46,356			
	To Textail Residual Salts - Project	5,057	1,369,825	By FD Interest	285,486
				By Bank interest	11,768
858,267	To Seminar Food Expense	107,020		By Interest on Income Tax Refund	15,435
	To Seminar Gift Expenses	18,046		By Training Hall Rental Income	17,500
	To Seminar Hall Rent	22,700		By Training Honarium Receipts	3,000
	To Seminar - Photography	8,000		By Sale Of News Paper	130
	To Seminar Printing and Stationery	10,050			
	To Seminar Travel Expenses	56,637			
	To Seminar Volunteer Expenses	1,000			
628,497	To Erode Seminar				
	To Membership Fees				
138,060	-Confederation of Indian Industries				
5,750	-Madras Chamber of Commerce				
106,065	To Training Conveyance Expenses	12,101			
	To Training Expenses - Food	53,716			
	To Training Honarium Expenses	87,144			
	To Training House Keeping Expenses	3,350			
	To Training Program Gift	4,000			
	To Training Travelling Expenses	5,023			
327,407	To YES Program Expenses	296,826			
	To EC Conveyance Expenses	74,000			
426,240	To EC Meeting Food Expenses	24,923			
	To EC Meeting Hotel Expenses	3,600			
	To EC Meeting Housekeeping Expenses	2,450			
	To EC Meeting Travel Expenses	296,187			
17,762	To Food & Stay Expenses				
288,148	To Technical charges				
23,128	To Printer rent				
1,121,455	To Rent				

# 17<sup>th</sup> Annual General Meeting - Report

	To Office Items	11,110		
724,897	To Printing and Stationery	90,665		
5,000	To Consultation Fees			
	To Tea and Coffee Food for Expenses	66,860		
48,069	To Advertisement Expenses	10,105		
	To AMC - Computers	15,750		
50,000	To Audit Expenses	112,000		
	To Ayudha Pooja Expenses	6,529		
22,115	To Bank Charges	7,823		
	To CMWSSB	21,096		
	To Common Area Maintenance Ten Square	237,800		
197,652	To General expense			
	To Computer & Peripherals	10,873		
55,935	To Conveyance Expenses	76,079		
138,499	To Electricity Charges	286,396		
201,340	To Equipment Charges			
	TO House Keeping Expenses	1,500		
7,710	To Newspaper Charges			
22,375	To Accounting expenses			
	To Interest paid GST	546		
14,889	To TDS Interest & Penalty			
27,625	To Iwma Inaugration Expenses	13,500		
13,069	To Iwma Office Shifting Expenses	2,800		
65,530	To Miscellaneous Expenses	97		
73,432	To Felicitation Expenses - Mani			
	To Mobile Phone Expenses	5,742		
432,837	To Postage and Telegram	184,411		
	To Property Tax	17,263		
74,535	To Repairs and Maintenance	26,579		
	To Round Off	2		
	To Software Maintenance Expenses	160,054		
	To Staff Recruitment	7,954		
113,639	To Staff Welfare	26,973		
2,470	To Subscription Expenses	9,117		
	To Taxes Paid	9,103		
109,236	To Telephone Expenses	40,441		
525,797	To Travelling Expenses	214,891		
10,015	To Water Expenses	4,205		
2,964,909	To Salary and Honarium	2,143,842		
	To Sponserhip	100,000		
	To Office Expenses	3,668		
1,303,202	To AGM Meeting Expenses	821,322		
423,884	To Depreciation	342,638		
<b>1,088,355</b>	<b>To Excess of Income over Expenditure</b>	<b>5,624,510</b>		
<b>13,185,642</b>		<b>12,865,188</b>	<b>#####</b>	<b>12,865,188</b>

For Varadarajan & Co.  
Chartered Accountants

For Industrial Waste Management Association

Sd/-  
H. Chandrasekaran  
Partner.  
UDIN - 19022821AAAADS6315  
Date: 03-09-2019  
Place: Chennai

Sd/-  
Chairman

Sd/-  
Secretary

Sd/-  
Treasurer



# 17<sup>th</sup> Annual General Meeting - Report

**INDUSTRIAL WASTE MANAGEMENT ASSOCIATION**  
**409 Ten Square Mall 3rd Floor**  
**64 Jawajarlal Nehru Salai, Koyambedu - 600107**

## RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2019

31.03.2018	RECEIPTS	31.03.2019	31.03.2018	PAYMENTS	31.03.2019
	Opening balance				
5,000	- Cash at Indian bank			GST Paid	1,938,180
-	- Cash in Hand	13,082			
1,820,915	- Cash at Bank (SBI - Admin)	2,258,357		SIPCOT Payment	11,960,000
8,839	- Cash at Bank (SBI - Infra)	8,839	26,082,200	TDS Paid	127,962
	Training Hall Rental Income	17,500			
26,280,100	Tamilnadu Waste Management Limited	11,960,000		Fixed Deposits	10,000,000
641,000	Seminar Fee	397955		Interest Paid - Gst	546
106,698	Registration fee Received	114140	5,000,000		
500,300	Training Fee	387750		Erode Seminar expenses	
3,337,054	Subscription Infra	4140268	628,497		
10,048,793	Subscription Small/Micro/medium	13383137			
	Promotion	11,800			
33,252,266	FD Matured				
500,000	Sponsorship Income	182,400	324,146	<b>Enviro Program Expenses</b>	
1,009	Miscellaneous Income			Enviro Honarium	7,750
	Technical Service Fees	25,000		Enviro Programme Certificates	47,634
	Bank Interest - Kotak Mahindra Bank	11,768		Enviro Program Conveyance	6,332
	Income Tax Refund	162,450		Enviro Program Expenses Hall Rent	43,130
	Training Honarium Receipts	3,000		Enviro Program Food	111,165
				Enviro Program Gifts	154,230
				Enviro Program Prizes	12,250
				Malathi Sridharan	18,927
				Enviro Programme Photo Expenses	19,600
				HWTSDf Audit Expenses	7,055
				HWTSDf Food Expenses	1,566
				HWTSDf Hotel Expenses	4,108
				HWTSDf Travel Expenses	66,002
			203,701	<b>Project Expense</b>	
				Project Consultant Wapcos	404,875
				Project Consultant Sartime	79,760
				Project Sponsorship Expenses	18,523
				Project Travel	46,356
				Textail Residual Salts - Project	5,057
			858,267	<b>Seminar Expenses</b>	
				Seminar Travel Expenses	62,696
				Seminar Volunteer Expenses	1,000
				Seminar Food Expense	130,357
				Seminar Hall Rent	22,700
				Seminar - Photography	7,840
				Seminar Printing and Stationery	10,050
				Seminar Gift Expenses	18,300
				<b>Traning Expenses</b>	
				Training Conveyance Expenses	10,101
				Training Expenses - Food	53,992
				Training House Keeping Expenses	3,350
				Training Honarium Expenses	87,144
				Training Program Gift	4,480
				Training Travelling Expenses	5,023
			327,407	YES Program Expenses	297,927
			430,740	<b>EC Meeting Expenses</b>	
				EC Conveyance Expenses	74,000
				EC Meeting Food Expenses	25,323
				EC Meeting Housekeeping Expenses	2,450
				EC Meeting Travel Expenses	296,187
				EC Meeting Hotel Expenses	4,235
				<b>Purchase of Fixed Assets</b>	
			258,624	- A/C	
			110,992	-Name Board	
			119,830	-Projector	
				-Fire extinguisher	

# 17<sup>th</sup> Annual General Meeting - Report

				143,488	-Computer	
				691,175	-Furniture	
				100,000	- Electrical fittings	
				107,363	-Software	
				3,114,144	- Epabx	
				27,016,448	- Interior	
				49,169	-Koyambedu Office building	
					-CCTV	
					Office Admin Expenses	
					Audit Expenses	201,000
					Sponsorship	108,000
			2,470		Subscription Expenses	9,170
					Software Maintenance Expenses	173,019
					Common Area Maintenance Ten Square	236,196
			138,499		Electricity Charges	286,396
					AMC - Computers	18,585
					To Computer & Peripherals	12,200
					Iwma Inauguration Expenses	13,230
					Office Asset	3,668
					Office Items	11,698
			724,897		Printing and Stationery	94,653
			17,762		Tea and Coffee Food for Expenses	66,860
			138,060		Confederation of Indian Industry	
			5,750		Madras Chamber of Commerce	
			201,340		Equipment charges	
			22,375		Accounting charges	
			5,000		<b>Consultation Fees</b>	
			48,069		Advertisement Expenses	10,306
					Ayudha Pooja Expenses	6,529
			22,115		Bank Charges	7,823
					CMWSSB	21,096
			842,455		Rent	
			55,935		Conveyance Expenses	76,079
					Iwma Office Shifting Expenses	2,800
			65,530		Miscellaneous Expenses	97
			432,360		Postage and Telegram	207,860
					Property Tax	17,263
			74,535		Repairs and Maintenance	30,047
			27,200		Staff Recruitment	7,954
			113,639		Staff Welfare	26,973
					Taxes Paid	9,103
			109,236		Telephone Expenses	43,742
			7,710		Newspaper charges	
			525,797		Travelling Expenses	214,891
			10,015		Water Expenses	4,205
			23,128		Printer Rent	
			106,065		Training Expenses	
			47,250		HR consultancy	
			288,148		Technical charges	
			197,652		General expenses	
			73,432		Felicitation Expenses - Mani	
			27,625		New office inauguration expenses	
			13,069		Office shifting expenses	
			14,889		TDS Interest & Penalty	
					Housekeeping expenses	1,500
					Mobile Phone Expenses	6,776
			2,971,409		Salary & Honarium	2,143,841
			1,302,089		AGM Meeting Expenses	944,345
					Closing Balance	
			13,082		- Cash in Hand	5,960
					- Cash at Bank	
					Kotak Mahindra Bank	21,768
			2,258,357		SBI Admin	1,824,942
			8,839		SBI Infra	8,839
76,501,974		33,077,576	76,501,974			33,077,576

For Varadarajan & Co.  
Chartered Accountants

For Industrial Waste Management Association

Sd/-  
H. Chandrasekaran  
Partner.  
UDIN - 19022821AAAADS6315  
Date: 03-09-2019  
Place: Chennai

Sd/-  
Chairman

Sd/-  
Secretary

Sd/-  
Treasurer

# 17<sup>th</sup> Annual General Meeting - Report

## INDUSTRIAL WASTE MANAGEMENT ASSOCIATION

### DEPRECIATION SCHEDULE AS PER INCOME TAX ACT

PARTICULARS	AS ON 01.04.2018	ADDITIONS >180DAYS	ADDITIONS <180DAYS	DELETIONS	TOTAL	%	DEPN	AS ON 31.03.2019
Training Instruments		27,697			27,697	0	4,155	23,542
Koyambedu office building	30,229,161				30,229,161	0%	-	30,229,161
Airconditioner	391,506				391,506	10%	39,151	352,356
Camera	6,475				6,475	15%	971	5,503
Computer	68,915				68,915	40%	27,566	41,349
CCTV Camera	29,918				29,918	40%	11,967	17,951
Cordless Phone	1,263				1,263	15%	189	1,073
UPS	-				-	40%	-	-
Fire extinguisher	103,577				103,577	15%	15,537	88,040
Furniture & Fittings	383,579				383,579	10%	38,358	345,221
Electrical fittings	587,499				587,499	15%	88,125	499,374
Inverter	29,868				29,868	15%	4,480	25,388
Laptop	6,603				6,603	40%	2,641	3,962
Name Board	4,952				4,952	15%	743	4,210
Printer	8,748				8,748	15%	1,312	7,436
Reverse Vending Machine			175,000		175,000	15%	13,125	161,875
Water Dispenser	3,608				3,608	15%	541	3,067
Projector	138,249				138,249	15%	20,737	117,512
Xerox Machine	14,258				14,258	15%	2,139	12,120
Safety Locker	29,525				29,525	15%	4,429	25,096
EBAX	91,259				91,259	15%	13,689	77,570
Software	130,056				130,056	40%	52,022	78,034
Mobile	5,073				5,073	15%	761	4,312
<b>TOTAL</b>	<b>32,264,092</b>	<b>-</b>	<b>175,000</b>	<b>-</b>	<b>32,466,789</b>		<b>342,638</b>	<b>32,124,151</b>







Regd No. 256/2002

## INDUSTRIAL WASTE MANAGEMENT ASSOCIATION

No: 409, Ten Square Mall, 3rd Floor,

No: 64, Jawaharlal Nehru Salai,

Koyambedu, Chennai – 600107

Tel: +91 44 4552 2655 / 2479 8069

E-mail : [contactus@iwma.in](mailto:contactus@iwma.in)



Recycling



Rainwater harvesting



Waste Management



Water Conservation



Climate Change



Renewable Energy



Global Warming



Waste Reduction