

## RESEARCH CAPABILITIES @ TCE ENVIS RP:

TCE ENVIS RP is well established with facilities in both instruments and knowledge products for carrying out various research activities. TCE ENVIS RP is open to support any research activities related to the theme and also other theme based activities

## RESEARCH LABS @ TCE ENVIS RP:

Following labs with advanced equipment are available under

- ♦ Polymer Research Lab:  
All type of thermal analysis using TGA and DSC and Elemental analysis using FTIR method (Solid, Liquid, Gas)
- ♦ Material Research Lab / Road Research Lab:  
All tests for bitumen characterization and all test for the road performance studies Road job mix formula design Consultancy for plan and plastic tar road construction

### Equipments Available:

- ♦ Bitumen Extractor
- ♦ Penetration Point
- ♦ Ductility
- ♦ Softening Point
- ♦ Marshall Stability Value
- ♦ Benkelman Beam
- ♦ Skid Resistance
- ♦ MERLIN
- ♦ Bump Integrator
- ♦ Density Measurements
- ♦ Texture Depth Measurements
- ♦ TFOT



### Research Support extended

- ♦ Thermo Gravimetric Analyzer
- ♦ Differential Scanning Calorimeter
- ♦ Brook Field Visco Meter
- ♦ Optical Microscope
- ♦ Fourier Transformed Infra Red Spectroscopy

### Major Consultancy carried out

- ♦ Material Testing
- ♦ Water Analysis
- ♦ Material Analysis

## OUR CLIENTS



## PROUD MOMENTS



Tech Icon Award

TCE ENVIS RP Program Officer Met Honorable Prime Minister on World Environment Day Celebration at New Delhi



Padma Shri Award



PATENT ROAD

PATENT NO  
198254  
OBTAINED DATE  
JUNE 2002



PATENT PLASTONE

PATENT NO  
344670  
OBTAINED DATE  
AUGUST 2020

### TCE ENVIS RP: Team

**Dr. R. VASUDEVAN**  
(Padma Shri Awardee)

TCE ENVIS RP - Coordinator, Dean ECA, Prof. Chemistry, TCE

Dr. A. Ramalinga Chandra Sekar ~ Program Officer

Dr. B. Sundarakannan ~ Information Officer

Mr. M. Chander Kumar ~ Info. Tech. Officer

Mrs. S. Gomathi ~ DataEntry Operator

# TCE ENVIS RP

## Resource Partner on Plastic Waste Management

TCE Campus, Appropriate Technology Block,  
Thiruparankundram, Madurai,  
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## Thiagarajar College of Engineering ENVIRONMENTAL INFORMATION SYSTEM



ENVIS was set up as a Central Scheme in December 1982 (Sixth Plan). ENVIS is a decentralized system, a web-based distributed network of subject-specific databases. Its purpose is to integrate country-wide efforts in environmental information collection, collation, storage, retrieval and dissemination to all concerned. ENVIS, by providing scientific, technical and semi-technical information on various environmental issues, serves as the backbone of policy formulation and environment management at all levels of Government as well as decision-making areas.

### TCE ENVIS RP

TCE has been selected and sanctioned a centre under ENVIS Scheme as Resource Partner on Plastic Waste Management for India.

Year of Establishment : 1<sup>st</sup> March 2018

Subject Area : "Plastic Waste Management"

Core objective is to build up a repository and dissemination centre in Plastic Waste Management for the Ministry of Environment, Forest and Climate Change, Government of India. TCE ENVIS RP uses the modern technologies for acquisition, processing, storage, retrieval and dissemination of information regarding Plastic Waste Management. We also support and promote research, development and innovation towards joining hands for the development of sustainable environment under Ministry of Environment Forest & Climate Change, Govt. of India.

TCE ENVIS RP - THEMATIC CENTRE FOR PLASTIC WASTE MANAGEMENT

# PLASTICS NOT TO BAN BUT TO PLAN








## Major Objective


TCE ENVIS RP is committed to work with ENVIS secretariat, MoEF & CC under the major objectives.

 **Awareness Activity**  
Involve people on Environment Awareness.

 **Connecting People**  
School, College, NGO, Industry, Public.

 **Reaching Grassroots**  
Knowing ground reality about Environment.

 **Enriching Public Domain**  
Environment Education, Clearance, Schemes/Govt Orders.

 **Addressing Public Queries**  
Answering to the public queries related to Theme Area.

## Collaboration @ TCE ENVIS RP

TCE ENVIS RP collaborates with the following people in attaining a complete success on fulfilling the mandatory objectives



## Support Highlights



**Educating Students on Environmental Issues**



**Meaningful Research in Appropriate Technology**



**Extending Consultancy Services**

## Newer initiatives @ TCE ENVIS RP

TCE ENVIS RP supports the following newer initiatives like

- \* Research based programs for students & Research scholars working on the areas related to the theme
- \* Support for Grass root innovators in establishing their innovation in the public forum by providing guidance on patent filings and other process
- \* Academic research support for students for doing their academic project work under TCE ENVIS RP Thematic area
- \* Skill Development training programs for unemployed youths & Various research based activities
- \* Use of facilities available @ TCE ENVIS RP

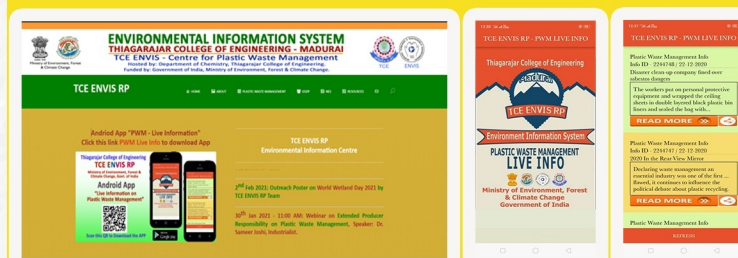


## Training Programs at TCE ENVIS RP

Various training programs offered by TCE ENVIS RP

- \* **GSDP - Green Skill Development Programme**  
It is an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self-employment by Ministry of Environment, Forest & Climate Change, Govt. of India
- \* **PWMT - Plastic Waste Management Training**  
A training program focused on various aspects of Plastic waste management which helps the environment by reducing plastic waste footprints
- \* **PRLT - Plastic Road Laying Training**  
Proud Innovation on plastic waste management from our own globally recognized technique "Plastic Tar Road" laying training

## TCE ENVIS RP - Websites & Mobile Apps



## Our Website Overview:

TCE ENVIS RP hosts a dedicated website for Plastic Waste Management under the ENVIS Scheme funded by Ministry of Environment, Forest & Climate Change (MoEF & CC). The website is a place of source for details about plastics, its waste and management solutions along with large scale informations.

Let us have a small glimps of website:

### LIVE INFO Plastic Waste Management

This section pulls all the information of Plastic, Plastic Waste and its management from all possible cloud sources and scrolls it in our Home Page

### ASK QUERY Dedicated Query Portal

A dedicated query portal to address the doubts regarding Plastic waste management is our special portal by which anyone can post the query and get the answer.

### FEEDBACK Importance to Feedback

We always ready to accept the suggestions, new ideas, feedbacks from all so that we can provide better support to protect the environment.

### RESOURCES Useful Resources on PWM

Resource section contains various knowledge products, Our Newsletters, Oppourtunities, Experts detail and much more to support all volunteers



Also as a mandate we have lot of thematic area information and other matters related to ENVIS Scheme.

## Publications:

TCE ENVIS RP is publishing newsletters quarterly related to the theme - plastic waste management and also in other environment related issues. Also TCE ENVIS RP publishes Handouts, Pamphlets, Posters, Concept notes on important environment days and facts.

