



Thiagarajar
College of Engineering
where quality and ethics matter



TCE EIAAP PC-RP

ANNUAL PROGRESS REPORT

April 2025 - March 2026

Submitted to:
EIAAP Cell, MoEF&CC

TCE EIAAP PC-RP hosted by Thiagarajar College of Engineering, Madurai



TCE EIACP PC-RP ANNUAL PERFORMANCE REPORT

1. Name of the Host Institution and EIACP Centre: **Thiagarajar College of Engineering (TCE)
EIACP PC-RP**
2. Name of Department in case of Hub: -
3. Darpan ID in case of an NGO: -
4. Theme/Subject Area of EIACP Centre: **Plastic Waste Management**
5. Date of establishment of EIACP Centre: **07.02.2018**
6. Name and designation of EIACP coordinator: **Dr. A. Ramalinga Chandra Sekar,
Assistant Professor, Chemistry, TCE**
7. EIACP Staff working from 1st April 2025 to 31st March 2026:

Sl. No.	Name	Position held	Qualification and Experience	Joining Date in current position	Date of Leaving (if Applicable)	Contribution made to EIACP as per the works defined in the Guidelines
1	Dr.B.Sundara Kannan	Programme Officer	M.Sc., Ph.D., 19 years 4 Months	03.02.2023	14.06.2025	Complete Planning/Scheduling of entire activities. Decision in coordination with coordinator. Execution of Activities in coordination with IO/ITO/ DEO
2	Dr.R. Kiruthiga	Programme Officer	M.Sc., Ph.D., 8 Months	16.06.2025	06.03.2026	Complete Planning/Scheduling of entire activities. Decision in coordination with coordinator. Execution of Activities in coordination with IO/ITO/ DEO
3	Mr.M.Chander Kumar	Information Officer	MCA., ME., 16 Year 5 Months	28.06.2022	NA	Implementation of Scheduled Activities as per PO's assignment Collection of data

						related to the Newsletter and other knowledge products Gathering of information related to centres theme area (Plastic Waste Management) Coordination of events related Information's (seminar, Webinar, Rally etc.,)
4	Mr.C. Naveen Arasu	Information Technology officer	B.E 6 years	12.06.2024	09.12.2025	Recording on activities (both as image and document) Certificate preparation Design and maintenance of Website Updating and uploading on website Supporting Technical Activities for all Events
5	Mrs.M. Sakthi Raga Priya	Data Entry Operator	B.A 6 years 3 Months	13.02.2025	NA	Assisting PO, IO and ITO in all the activities as per them requirements. Overall maintenance of records related to EIACP Office file related activities Data Entry Operations and File Operations

8. Objectives of the EIACP Centre:

The TCE EIACP PC-RP Centre operates under the framework of the Environmental Information, Awareness, Capacity Building and Livelihood Programme, with the overarching goal of strengthening environmental knowledge systems, public awareness, and sustainable development practices through integrated, data-driven approaches.

The Centre aims to serve as a regional environmental knowledge hub by systematically collecting, curating, and disseminating credible environmental information to diverse stakeholders including academia, policymakers, and the public. It focuses on enhancing environmental awareness through structured outreach initiatives such as campaigns, workshops, and community engagement programs addressing critical issues like climate change, waste management, biodiversity conservation, and water resource management.

A key objective is to build capacity and develop skills among students, faculty, government personnel, and local communities by offering training programs, internships, and knowledge-sharing platforms that improve environmental literacy and technical competence. The Centre also emphasizes field-based data collection and evidence generation, enabling informed decision-making through surveys, digital tools, and participatory approaches.

In alignment with national priorities, the Centre supports policy and governance mechanisms by providing analytical inputs, environmental indicators, and structured reports to assist planning and implementation processes. It maintains a digital repository of environmental data, case studies, and best practices, ensuring accessibility and continuous knowledge enhancement.

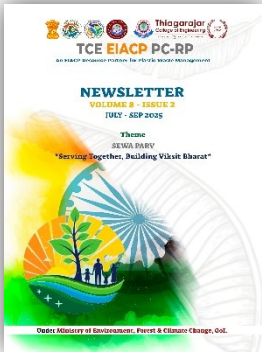
The Centre actively promotes sustainable lifestyles and practices in line with initiatives such as Mission LiFE, encouraging behavioural change at both institutional and community levels. Furthermore, it fosters collaboration with academic institutions, government bodies, NGOs, and industry to strengthen environmental governance and multi-stakeholder engagement.

Finally, the Centre seeks to enable environment-linked livelihood opportunities, particularly in areas such as waste management and green entrepreneurship, thereby contributing to both ecological sustainability and socio-economic development.

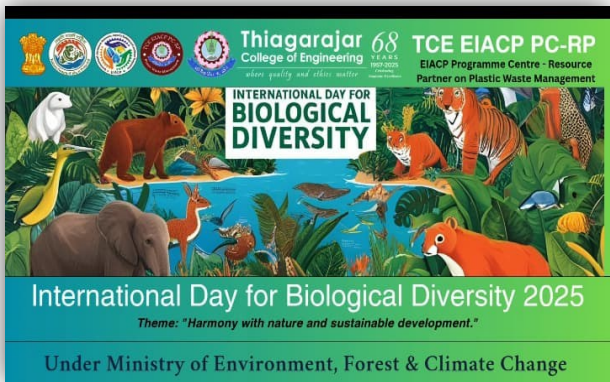
9. Grants received by the EIACP centre during the financial year 2025 – 2026

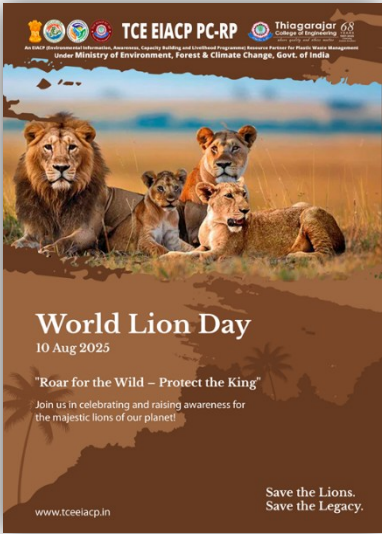
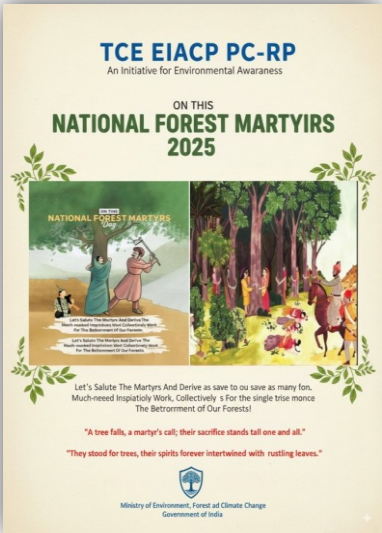
S. No.	Type of Grants received	Total Amount received	Total Amount utilized	Unspent balance
1	26,39,260/-	26,39,260/-	24,85,286/-	1,53,974/-

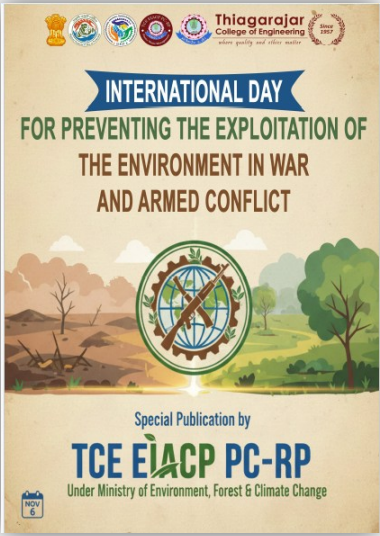
10. List of Publications by the EIACP centre (Newsletters, Papers, Books/ Reports, mobile apps etc.) Newsletters – 4

Cover snapshot	Quarter/ Volume/ Issue/ Theme / Main Articles	Number of copies printed and circulated
	April – June 2025	100
	July – September 2025	100
	October – December 2025	100
	January – March 2026	100

11. Other publications/ information products/posters brought out during the Financial Year with URL:

Sl. No	Knowledge Products	Details	Month of Issue
1.		E-poster on International Day for Biological Diversity 2025	May 2025
2.		Comprehensive knowledge product on Van Mahotsav	July 2025
3.		Specially designed poster on International Day of the World's Indigenous Peoples	August 2025

4.	 The poster for World Lion Day 2025 features a group of lions in a savanna setting. At the top, it lists the organizing institutions: TCE EIACP PC-RP, Thiagarajar College of Engineering, and the Government of India. The text 'World Lion Day 10 Aug 2025' is prominently displayed, followed by the slogan 'Roar for the Wild – Protect the King'. It encourages participation in celebrating and raising awareness for the majestic lions of the planet. The website www.tceeiACP.in is provided at the bottom, along with the tagline 'Save the Lions. Save the Legacy.'	Informative knowledge product on World Lion Day	August 2025
5.	 This e-poster commemorates National Forest Martyrs 2025. It is an initiative for environmental awareness by TCE EIACP PC-RP. The central theme is 'ON THIS NATIONAL FOREST MARTYRS 2025'. It features two illustrations: one of a person cutting a tree and another of a forest scene with a fallen tree. The text includes a call to action: 'Let's Salute The Martyrs And Derive as save to ou save as many fon. Much-need Inspitully Work, Collectively s For the single trise monce The Bettrment of Our Forests!'. It also includes a quote: 'A tree falls, a martyr's call; their sacrifice stands tall one and all.' and another: 'They stood for trees, their spirits forever intertwined with rustling leaves.' The Ministry of Environment, Forest and Climate Change, Government of India is credited at the bottom.	e-Poster on National Forest Martyrs' Day	September 2025
6.	 The poster for National Wildlife Week 2025 is titled 'SPECIAL ISSUE ON National Wild Life Week 2nd to 8th October 2025 Celebrating Human-Wildlife Coexistence'. It features a vibrant illustration of various wildlife including an elephant, a tiger, a deer, and a peacock in a lush forest. The text 'Published by TCE EIACP' is visible at the bottom.	Special Issue on National Wildlife Week 2025	October 2025

7.		Special Publication on “International Day for Preventing the Exploitation of the Environment in War & Armed Conflict-2025”	November 2025
8.		Comprehensive awareness poster on “World Toilet Day 2025	November 2025
9.		Awareness poster on “World Soil Day”	December 2025

10.	 The poster for National Bird Day 2026, dated January 5, 2026, features a vibrant illustration of a peacock. It includes sections on why birds matter, a growing concern about habitat loss and pollution, what you can do to help, and India's pride in the peacock as the national bird. Logos for TCE, EIACP, PC-RP, and other organizations are at the bottom.	E-Poster on National Bird Day 2026	January 2026
11.	 The poster for World Wetlands Day 2026, dated 02 Feb 2026, shows a serene wetland landscape with a white egret. It highlights the importance of wetlands for biodiversity, water regulation, and flood control. It also mentions the responsibility to save, restore, and conserve wetlands. Logos for TCE, EIACP, and Thiagarajar College of Engineering are at the top.	E-Poster on - World Wetlands Day 2026	February 2026
12.	 The poster for the Dindigul Science Tech & Startup Innovation Festival 2026, held from 28 January to 3 February 2026 at the MSP Auditorium, Dindigul. It details the event's impact (1,000+ visitors, 120+ stalls), focus areas (AI & Robotics, Green Energy, VR/AR), and special attractions like a science marathon and top innovations. It also mentions 1800+ active entries, 1500+ quiz takers, and 1800+ life pledge takers. Logos for TCE, EIACP, PC-RP, and other organizations are at the top.	Other publications	Feb 2026

13.		E-Poster on - World Water Day 2026	March 2026
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12. Green Skill Development Programme (GSDP) data: **NA**

14. Capacity Building Program: **NA**

15. Database Development & Updation:

- Webpage updation frequency with details: **Twice in a Week / Event Specific**
- Database maintenance: **Once in a Week**
- Total no. of EIACP reports submitted in the financial year: **12 – Monthly Reports & 4 – Quarterly Reports**
- Avg. No. of Hits/Visitors: **210**
- Query-Answer Statistics: **NA**
- Any analysis of the available knowledge products: **No**
- If Yes, Any usage, Target Group: **NA**

16. Awareness and outreach Activities carried out during financial year 2025- 2026:

- Number of Environmental days celebrated

S. No.	Name of the Environmental Days Celebrated
1.	International Day of Climate Action
2.	International Day for the Preservation of Ozone Layer
3.	National Energy Conservation Day
4.	Earth Day
5.	International Day of Biological Diversity
6.	World Environment Day
7.	International Plastic bag Free day

8.	Van Mahotsav
9.	Seva Parv
10.	International Day for the conservation of Mangrove system
11.	International Day of the World's Indigenous Peoples
12.	World Lion Day
13.	World Nature Conservation Day
14.	National Forest Martyrs' Day
15.	National Wild Life Week
16.	International Day for Preventing the Exploitation of the Environment in War & Armed Conflict
17.	World Toilet Day
18.	World Soil Day
19.	National Birds Day
20.	World Wetland Day

- b. Number of Competitions /LiFE events/ Webinars/ workshops/ Seminars/ Conferences etc. organized both offline/online:

S.No	Date	Competition	Participants
1	22.04.2025	Slogan Writing Competition	150
		Drawing Competition	
2	16.09.2025	Drawing Competition	30
		Elocution Competition	
3	26.09.2025 – 02.10.2025	Photography Contest	55
		Short Film Making Competition	
4	13.12.2025	Energy Ambassador Program Competitions	161
5	11.02.2026	School Students Competitions (Drawing / Awareness Activities)	400

EVENTS

S. No	Name of the Event	Total No of Events
1	Mission LiFE	13

2	Webinar and Seminars	18
3	Competitions / Celebrations	7
4	Workshops / Boot Camp	11
5	Awareness at TCE EIACP Lab for Experts	20
6	Miscellaneous – Outreach Other District Covered	23
7	Tree Plantation “Ek Ped Maa Ke Naam Campaign”	8
8	Tree Sapling Distribution	1

- c. Representations of EIACP Centres in various thematic events organized by other Ministries/State Govt./Institutes etc. - **Nil**
- d. Number of reports with policy implications at district/state/national level- **Nil**

1.Mission LiFE - Details

1 **Date:** 08.04.2025

Title: Awareness Lecture on LiFE – Reduction of Single-Use Plastics

On April 8, 2025, Dr. A. Ramalinga Chandrasekar, Co-coordinator, TCE EIACP, delivered a lecture titled “LiFE – Reduction of Single-Use Plastics” at a seminar organized by the Rotary Club of Madurai.

In his address, Dr. Chandrasekar raised awareness about the harmful impact of single-use plastics and highlighted innovative solutions such as the use of plastic waste in tar road construction. He elaborated on the process and benefits of plastic Tar roads, demonstrating how waste plastics can be effectively utilized for infrastructure development while contributing to environmental sustainability. The session also served as an introduction to the Government of India’s Mission LiFE (Lifestyle for Environment) goals, helping Rotary Club members and other participants understand how the activities of the TCE EIACP team are closely aligned with these national sustainability objectives. The event successfully created awareness among community leaders and stakeholders, encouraging them to adopt and support eco-friendly practices in their respective fields.

Number of participants : 40

Name of Location/s where activity was carried out: Rotary Club of Madurai, Thirunagar, Madurai



Session started with Prayer and Pledge



EIACP Co-Coordinator addressing with LiFE goals & Plastic Waste Management

2 **Date:** 11.05.2025

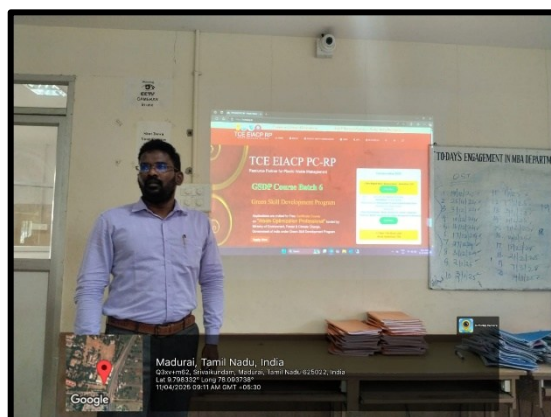
Title: Awareness Lecture on LiFE – Reduction of Single-Use Plastics

On April 11, 2025, Mr. M. Chanderkumar, Information Officer, TCE EIACP, delivered an insightful lecture on the theme “LiFE – Reduction of Single-Use Plastics” at Subbalakshmi Lakshmipathy College of Science.

During the session, Mr. Chanderkumar emphasized the importance of reducing single-use plastics and introduced innovative solutions such as plastic Tar road technology. He explained how single-use plastic waste can be effectively repurposed in road construction, contributing to both environmental sustainability and infrastructure development. He also highlighted the emerging role of technologies like Artificial Intelligence (AI) in improving the efficiency and effectiveness of waste management systems, from waste segregation to resource recovery and monitoring. The session witnessed active participation from 55 students and five faculty members, who gained valuable insights into sustainable practices, technological integration, and the principles of the LiFE (Lifestyle for Environment) initiative.

Number of participants : 60

Name of Location/s where activity was carried out: Subbalakshmi Lakshmipathy College of Science
T.V.R Nagar, Aruppukottai Road, Madurai



Session on sustainable waste management, highlighting plastic tar road technology and the reduction of single-use plastics

Students and faculty actively participating in the session, gaining insights

3 **Date:** 21.05.2025

Title: Awareness Lecture on Plastic Waste Management

On April 21, 2025, Dr. A. Ramalinga Chandrasekar, Co-coordinator of TCE EIACP, delivered a compelling and insightful lecture on the topic “Role of Students in Waste Management” during the State-Level Residential Leadership Training Camp held at Thiagarajar College of Engineering, Madurai.

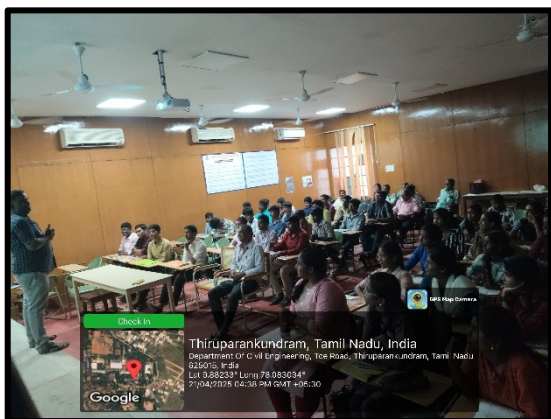
Addressing a diverse group of enthusiastic student leaders from across the state, Dr. Chandrasekar emphasized the vital role young individuals play in shaping sustainable waste management practices. He highlighted the importance of responsible consumption, waste segregation at the source, and active community participation. The session also explored innovative waste reduction strategies and the significance of student-led initiatives in promoting environmental stewardship. The lecture served as a call to action, inspiring the participants to

become change agents in their respective communities and contribute meaningfully to a cleaner, greener future.

The session was attended by over 45 students and five teachers, all of whom actively participated and expressed a keen interest in implementing sustainable practices in their communities.

Number of participants : 50

Name of Location/s where activity was carried out: TCE, Madurai



Lecture on Role of Students in Plastic Waste Management



Participants actively engaged in the session, inspired to adopt sustainable practices

4 **Date:** 07.05.2025

Title: Mission LIFE activities

On May 7, 2025, as part of the Mission LIFE (Lifestyle for Environment) initiative, the TCE EIACP PC-RP team organized an awareness lecture focusing on the reduction of single-use plastics for school students.

The session aimed to educate students on the environmental impacts of single-use plastics and promote sustainable waste management practices.

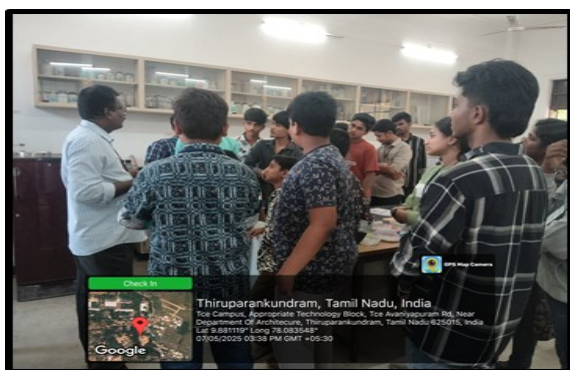
During the lecture, the TCE EIACP team provided insights into proper management of single-use plastic waste, highlighting innovative methods such as reusing plastics to construct roads, create Plastone blocks, and develop other useful products.

The session emphasized the importance of adopting eco-friendly alternatives and reducing plastic usage in daily life. A total of 30 students from various schools in and around Madurai participated in the event, engaging actively in discussions and expressing their commitment to environmental conservation.

This initiative aligns with TCE EIACP's ongoing efforts to foster environmental awareness and encourage sustainable practices among the younger generation.

Number of participants : 30

Name of Location/s where activity was carried out: TCE EIACP Centre



Awareness lecture on reducing single-use plastics conducted for school students



Promoting sustainable waste management practices

5 **Date:** 09.05.2025

Title: Mission LIFE Activities-Experts from India Ghana Trade Centre

On May 9, 2025, a representative from the India Ghana Trade Centre visited the TCE EIACP PC-RP (Environmental Information, Awareness, Capacity Building, and Livelihood Programme – Programme Centre) at Thiagarajar College of Engineering (TCE) in Madurai. During this visit, the TCE EIACP team conducted an awareness session focusing on the effective management of single-use plastic waste. The session highlighted innovative methods for repurposing plastic waste into valuable resources, such as constructing roads, manufacturing Plastone blocks, and creating other useful products. TCE EIACP PC-RP has been at the forefront of sustainable plastic waste management, spearheaded by Padma Shri awardee Dr. R. Vasudevan, often referred to as the "Plastic Man of India." He pioneered the use of shredded plastic waste in road construction, a method that enhances road durability and reduces maintenance costs. This technique has been widely adopted across India and has received formal approval from the Indian Roads Congress under the code IRC: SP: 98: 2013.

Number of participants : 1

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Representative from the India Ghana Trade Centre visiting the TCE EIACP PC-RP Centre, Madurai



Awareness session on innovative single-use plastic waste management technique

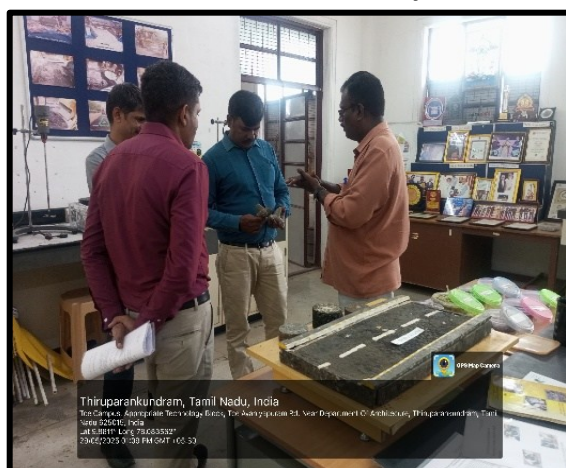
6 **Date:** 29.05.2025

Title: Mission LiFE Activities-Aurolab, Madurai

On May 29, 2025, engineers from Aurolab Madurai visited the laboratory at the EIACP PC-RP at Thiagarajar College of Engineering. During the visit, the team shared valuable insights into innovative waste management techniques, particularly focusing on the utilization of plastic waste in constructing durable and sustainable roads. They provided a detailed explanation of the process, highlighting how discarded plastics are repurposed as key materials in road construction to enhance durability and reduce environmental impact. Additionally, the engineers showcased a range of innovative products made from plastic waste, demonstrating sustainable solutions to address plastic pollution. The visit fostered knowledge exchange and emphasized the importance of innovative approaches in achieving environmental sustainability.

Number of participants : 5

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Engineers from Aurolab, Madurai, interacting at the TCE EIACP PC-RP laboratory



Demonstrating innovative plastic waste utilization for sustainable road construction

7 **Date:** 28.07.2025

Title: Awareness Lecture on How to Combat Pollution

On July 28, 2025, in celebration of World Nature Conservation Day, the TCE EIACP Co-Coordinator Dr. A. Ramalinga Chandrasekar led an inspiring environmental awareness session at Sri SundareswaraVidya Sala Matriculation Higher Secondary School, Aatukulam, located on Sivagangai Road in Melur, Madurai. The event drew 500 students and 30 teachers, who actively engaged in interactive presentations and discussions about the vital role of nature in combating pollution and maintaining ecological balance. Dr. Chandrasekar called on students to adopt sustainable habits such as reducing, reusing, and recycling; participating in tree-planting and greening initiatives; conserving water and energy and joining or forming eco-clubs to spearhead environmental initiatives. The collective enthusiasm of students and teachers underscored a shared commitment to transforming environmental awareness into long-term, meaningful action rooted in daily practice.

Number of participants : 530

Name of Location/s where activity was carried out: Aatukulam, Melur, madurai



Delivering an awareness lecture on combating pollution during World Nature Conservation Day



Students and teachers actively participating in the environmental awareness session

8 **Date:** 06.08.2025

Title: Awareness Lecture on How to Combat Pollution

TCE EIACP PC-RP, in collaboration with the Centre of Excellence for Sustainability, hosted an enlightening seminar on Harnessing Technology for Sustainability on August 6, 2025. The event brought together eminent industry leaders from Honeywell, USA — Dr. Amanda Hickam, Vice President of ESS Research and Sustainability, and Dr. Gavin Towler, Corporate Vice President and Chief Scientist – Sustainable Technologies, and Chief Sustainability Officer.

Both experts delivered powerful and inspiring addresses, sharing their experiences and insights on how cutting-edge technologies can be leveraged to address pressing environmental challenges and drive sustainable growth. Their talks not only emphasized the critical role of innovation in sustainability but also inspired the audience to think proactively about real-world applications.

The seminar, conducted at the CSE Seminar Hall, TCE, drew the participation of 150 students and 30 teachers. The interactive sessions provided an invaluable platform for knowledge exchange, fostering curiosity and motivation among students to explore sustainability-driven technological solutions.

Number of participants: 180

Name of Location/s where activity was carried out: CSE Seminar Hall, TCE





Seminar on “Harnessing Technology for Sustainability” conducted at TCE with expert talks by industry leaders from Honeywell, USA.



Students and faculty actively participating in the interactive seminar, gaining insights into sustainability-driven technological innovations.

9 **Date:** 12.09.2025

Title: Awareness Lecture on Plastic Waste Management

On September 12, 2025, Dr. A. Ramalinga Chandra Sekar addressed school students during the Madurai Climate Summit 2025 – Climate Change Week, organized by Young India Climate Change and YUVA. The session focused on the significance of plastic waste management in achieving sustainable solid waste management practices.

Around 30 students participated in the event. Dr. Chandru emphasized how even small, consistent actions in daily life can collectively create a cleaner and greener future. His inspiring words ignited the curiosity and enthusiasm of the young minds, motivating them to reflect on their own role in building a sustainable tomorrow. He also encouraged students to adopt simple but effective practices such as:

- Reducing single-use plastics in daily life.
- Reusing items wherever possible instead of discarding them.
- Segregating waste at the source into biodegradable and non-biodegradable.

The session served as a reminder that youth-led actions are crucial in addressing climate change and creating a sustainable environment.

Number of Participants : 30

Name of Location/s where activity was carried out: Architecture Department, TCE



Delivering an awareness lecture on plastic waste management during the Madurai Climate Summit 2025 at TCE



School students actively participating in the session

10 **Date:** 06.11.2025

Title: Awareness Lecture on “Plastic Waste Management”

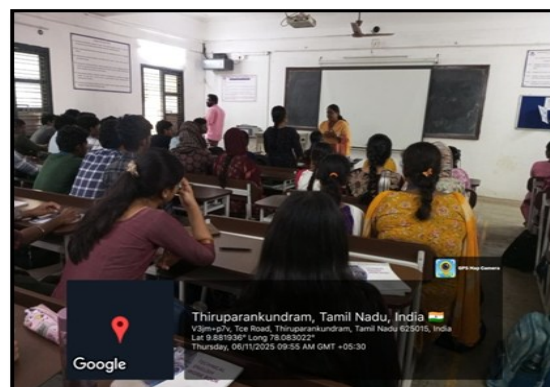
An enlightening Mission LiFE Awareness Lecture on Plastic Waste Management was organized by TCE EIACP PC-RP on 6th November 2025 for First Year Computer Science and Civil Engineering students of TCE to promote environmental consciousness and responsible plastic usage. The session highlighted the different types of plastics and their environmental impacts, the need for reducing, reusing, and recycling plastic products, the importance of adopting eco-friendly alternatives in daily life.

A brief discussion on climate change patterns and various anthropogenic activities impacting the environment. Students were motivated to take part in campus-level plastic reduction initiatives and to become active ambassadors of sustainability. The lecture aimed to inspire the youth to work towards a cleaner, greener, and plastic-free future. The session concluded with the Mission LiFE Pledge, where students reaffirmed their commitment to protect the environment and to live in harmony with nature.

The lecture also focused on raising awareness among students and the community about the hazards of plastic pollution, the role of extended producer responsibility, and the need to follow government regulations on plastic use. The students were encouraged to take personal responsibility by avoiding littering, carrying reusable items, and participating in community clean-up drives.

Number of Participants : 115

Name of Location/s where activity was carried out: TCE



Awareness lecture on “Plastic Waste Management” conducted for first-year students at TCE under the Mission LiFE initiative.

Students participating in the session and taking the Mission LiFE pledge to promote sustainable practices and reduce plastic pollution

11 **Date:** 02.12.2025

Title: Awareness Lecture on “Pollution Control”

On 2nd December 2025, An awareness lecture on Pollution Control was successfully conducted with the objective of educating First year students of TCE about the causes, impacts, and control measures of various types of pollution. The session covered major forms of pollution such as air, water, soil, and plastic pollution, highlighting their adverse effects on human health, ecosystems, and sustainable development.

The lecture emphasized practical pollution control strategies, including waste segregation, reduction of single-use plastics, adoption of eco-friendly practices, energy conservation, and community participation in environmental protection. Real-life examples and case studies were

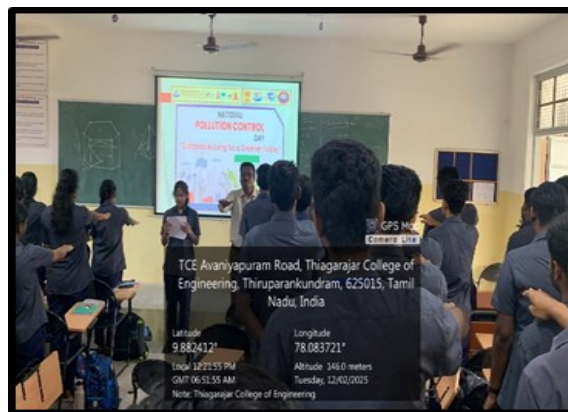
discussed to create better understanding and awareness among the participants. The lecture helped in creating environmental awareness and motivated students to take responsible actions towards pollution prevention and environmental conservation.

Number of Participants : 60

Name of Location/s where activity was carried out: TCE



Awareness lecture on pollution control conducted for first-year students at TCE



Students actively participating in the session, gaining insights into sustainable practices

12 **Date:** 08.01.2026

Title: Stakeholder Meeting on Solid Waste Management

TCE EIACP PC-RP centre's Co-ordinator and Staffs attended the stakeholder meeting on 8th January 2026 at Maatuthaavani Fruit Market, Madurai to discuss issues related to solid waste management and to understand the challenges faced by market stakeholders. The meeting involved vendors, and concerned officials, and focused on the existing waste handling practices within the market premises.

During the discussion, stakeholders highlighted key issues such as improper waste segregation, accumulation of biodegradable waste, lack of adequate waste collection facilities, and insufficient sanitation infrastructure. Concerns were also raised regarding irregular waste clearance, absence of awareness on source segregation, and the need for improved coordination with municipal authorities. The meeting provided an important platform for stakeholders to voice their concerns and share ground-level insights. Suggestions were discussed on improving segregation of wet and dry waste, ensuring timely collection, providing basic sanitation facilities, and enhancing awareness among vendors on sustainable waste management practices.

The stakeholder interaction helped in understanding the practical challenges in managing solid waste at the market and will be useful in planning effective interventions and awareness programs to improve cleanliness, hygiene, and environmental sustainability at the market premises.

Number of Participants : 30

Name of Location/s where activity was carried out: Maatuthaavani Fruit Market, Madurai



TCE EIACP PC-RP team participating in a Stakeholders and vendors engaging in stakeholder meeting at Maatuthaavani Fruit discussions Market, Madurai.

13 Date: 24.03.2026

Title: Mission LiFE Pledge on World Water Day 2026

On the occasion of World Water Day 2026, a Mission LiFE pledge activity was conducted during the seminar organized by TCE EIACP PC-RP. The pledge aimed to instill environmental responsibility and promote sustainable practices among participants.

During the programme, participants were sensitized about the importance of water conservation, reduction of waste, and adoption of eco-friendly habits in daily life. The Mission LiFE pledge was administered, encouraging participants to commit towards sustainable living and responsible use of natural resources.

The activity reinforced the significance of individual contributions in addressing environmental challenges and inspired participants to actively support environmental protection initiatives.

Number of Participants : 70

Name of Location/s where activity was carried out: TCE EIACP Seminar Hall, Madurai



Mission LiFE pledge activity conducted on World Water Day 2026

Participants taking the pledge, promoting water conservation and sustainable living practices

2.Webinar / Seminar / - Details

1 **Date:** 25.04.2025

Title: Webinar commemorating Earth Day 2025

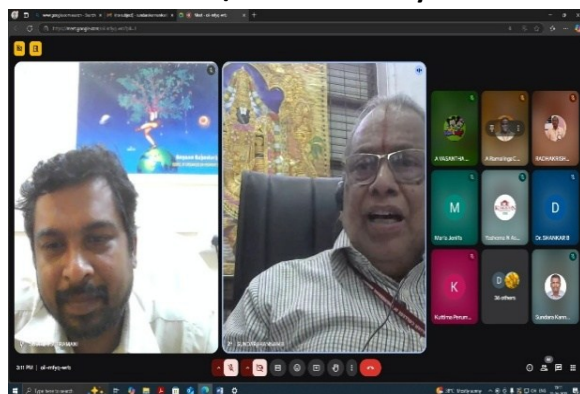
As part of the Earth Day 2025 celebrations, the TCE EIACP PC-RP organized a special webinar on 25th April 2025, centered around the theme "Our Power, Our Planet." The event aimed to raise awareness about pressing environmental issues and inspire collective action towards a sustainable future.

The webinar featured a special lecture by Prof. S. Sudalai, Assistant Professor, Centre for Pollution Control and Environmental Engineering, School of Engineering & Technology, Pondicherry University. Prof. Sudalai delivered an insightful talk on the topic "Our Power, Our Planet," emphasizing the critical role of individual and collective efforts in addressing environmental challenges. He discussed the impact of climate change, highlighting the consequences of rising global temperatures and the increasing frequency of extreme weather events, and stressed the urgent need for decisive climate action. The lecture also shed light on the alarming loss of biodiversity, underlining the rapid rate of species extinction and the essential need to protect and preserve ecosystems for the well-being of future generations. Furthermore, Prof. Sudalai explored the issue of global inequality, explaining how environmental degradation disproportionately affects vulnerable populations and emphasizing the importance of promoting equitable and inclusive solutions.

The session was well-received, with 105 participants actively attending. It served as a platform for meaningful discussions, fostering greater understanding among participants about the interconnectedness of human actions and planetary health. The webinar concluded with a call to action for everyone to contribute actively to environmental preservation through sustainable practices, advocacy, and innovation, aligning with the Earth Day 2025 message — that our collective power is crucial to protecting and restoring our planet.

Number of participants : 105

Name of Location/s where activity was carried out: Virtual Mode



Webinar on "Our Power, Our Planet" conducted in commemoration of Earth Day 2025 by TCE EIACP PC-RP.



Participants attending the virtual session, gaining insights on climate change, biodiversity conservation, and sustainable environmental practices.

2 **Date:** 29.05.2025

Title: Awareness Lecture on "Plastic Waste Management"

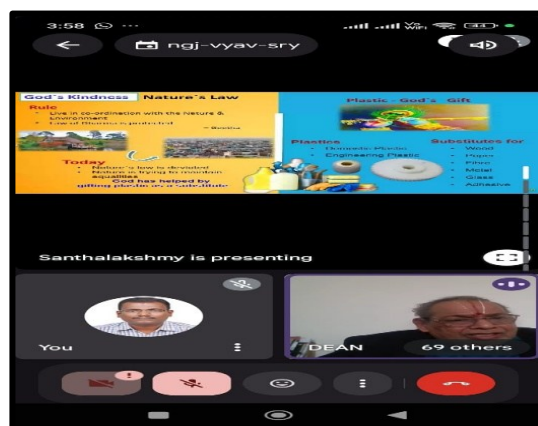
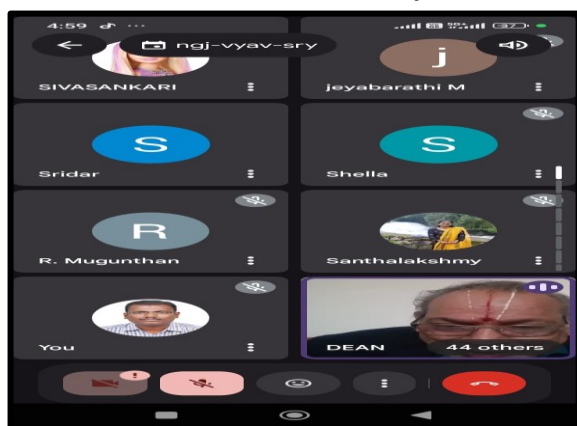
On May 29, 2025, as part of the World Environment Day 2025 celebrations, the Puducherry EIACP HUB organized a webinar featuring Dr. R. Vasudevan, Padma Shri awardee and Coordinator of TCE EIACP, as the keynote speaker. Dr. Vasudevan, renowned as the 'Plastic Man of India' for his innovative approach to plastic waste management, delivered a lecture titled "Ending Plastic Pollution."

In his address, Dr. Vasudevan highlighted the detrimental effects of single-use plastics on the environment and emphasized the urgent need for sustainable waste management practices. He shared insights into his pioneering technique of repurposing plastic waste into durable road construction materials, a method that has been widely adopted across India.

The webinar witnessed active participation from 60 attendees, including environmental enthusiasts, educators, and students.

Number of participants : 60

Name of Location/s where activity was carried out: Online Mode



Webinar on “Ending Plastic Pollution” World Environment Day 2025 celebrations

Participants attending the online session, gaining insights into innovative plastic waste management and sustainable practices.

3 **Date :** 02.06.2025

Title: Awareness Lecture on Ending Plastic Pollution

On June 2, 2025, EIACP, the Department of Zoology at the University of Madras, Guindy Campus, organized a virtual webinar titled "Ending Plastic Pollution." The event featured Padma Shri awardee Dr. R. Vasudevan, renowned as the "Plastic Man of India," who delivered an insightful lecture to approximately 60 participants from diverse backgrounds.

Dr. Vasudevan, TCE EIACP Coordinator, is acclaimed for developing an innovative method of using plastic waste in road construction, a technique that has been implemented across various states in India. In his address, he emphasized the importance of effective waste management and the potential of plastic waste as a valuable resource when properly recycled. He advocated for the segregation and collection of plastic waste, highlighting that the issue lies not in the use of plastic but in the lack of efficient recycling systems.

The webinar provided attendees with a comprehensive understanding of plastic pollution and practical solutions to mitigate its impact. Dr. Vasudevan's thought-provoking speech inspired participants to consider sustainable practices and the role of innovation in environmental conservation.

Number of participants : 60

Name of Location/s where activity was carried out: virtual Mode



Webinar on “Ending Plastic Pollution”, featuring Dr. R. Vasudevan as the keynote speaker.



Participants attending the virtual session, gaining insights into innovative plastic waste management and sustainable solutions.

4 **Date :** 07.06.2025

Title: Awareness Lecture on Combating Plastic Pollution

On June 7, 2025, Padma Shri awardee Dr. R. Vasudevan, Coordinator of the TCE EIACP delivered an insightful webinar titled "Combating Plastic Pollution." The event was organized by Vedanta Aluminium Company as part of their World Environment Day initiatives. About 80 participants from diverse academic and professional backgrounds attended the session, gaining valuable insights into sustainable practices and innovative solutions for plastic waste management.

Dr. Vasudevan's pioneering work in utilizing waste plastic for road construction has significantly contributed to environmental sustainability in India. His approach not only addresses the pressing issue of plastic pollution but also offers a practical application that benefits infrastructure development. The webinar emphasized the importance of collaborative efforts between industry, academia, and the community to effectively tackle environmental challenges. Participants were encouraged to adopt and promote sustainable practices within their respective fields, reinforcing the collective responsibility towards environmental conservation.

Number of participants : 80

Name of Location/s where activity was carried out: virtual Mode



Dr. R. Vasudevan delivering a webinar on “Combating Plastic Pollution” during World Environment Day initiatives



Participants actively attending the virtual session, gaining insights into sustainable plastic waste management practices

5 **Date :** 11.06.2025

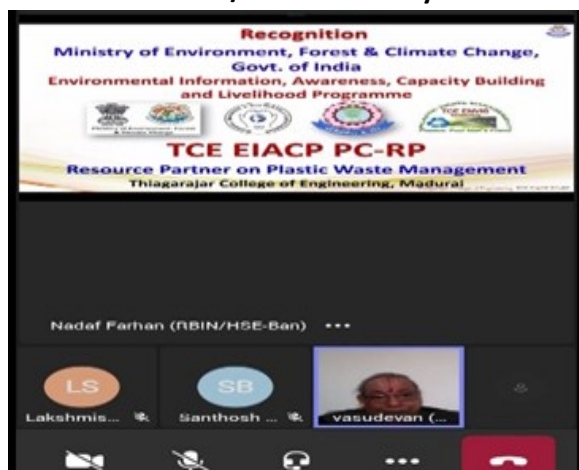
Title: Awareness Lecture on Ending Plastic Pollution

As part of the World Environment Day 2025 observance, a special webinar on "Ending Plastic Pollution" was conducted on June 11, 2025, for the Health, Safety & Environment (HSE) fraternity of Bosch India. The session was delivered by none other than Padma Shri Awardee Dr. R. Vasudevan, renowned as the "Plastic Man of India" and Coordinator of TCE EIACP.

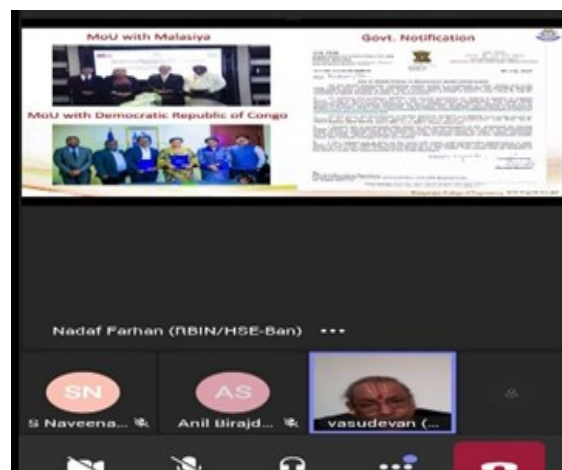
The webinar saw the participation of around 80 professionals from Bosch India, who gained deep insights into the challenges posed by plastic pollution and the practical strategies for mitigating its impact. Dr. Vasudevan emphasized the urgent need for reducing single-use plastics and encouraged the adoption of sustainable waste management practices in both industrial and domestic settings. A key highlight of the session was Dr. Vasudevan's presentation on the innovative use of waste plastics in road construction, a technology he pioneered.

Number of participants : 80

Name of Location/s where activity was carried out: virtual Mode



Webinar on “Ending Plastic Pollution” delivered by Bosch India



Professionals participating in the virtual session, gaining insights

6 **Date** : 02.06.2025

Title: Awareness Webinar- A Data-Driven Framework for Urban Atmospheric Microplastic Monitoring and Analysis

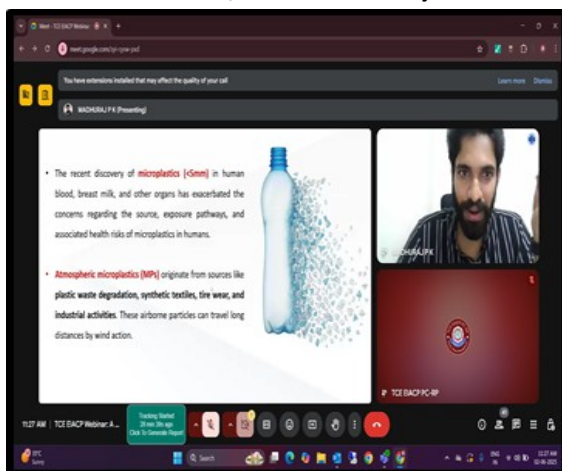
As part of our continued efforts to raise awareness on environmental challenges, TCE EIACP organized a webinar titled “A Data-Driven Framework for Urban Atmospheric Microplastic Monitoring and Analysis” on June 2, 2025. The session was led by Mr. P.K. Madhuraj, Senior Research Fellow at the School of Environmental Studies, Cochin University of Science and Technology (CUSAT), Kerala.

Mr. Madhuraj delivered an insightful presentation highlighting the sources, sampling techniques, and analytical tools used for studying microplastics in urban air environments. He also emphasized the importance of integrating data analytics for better understanding and policy formulation to mitigate microplastic pollution.

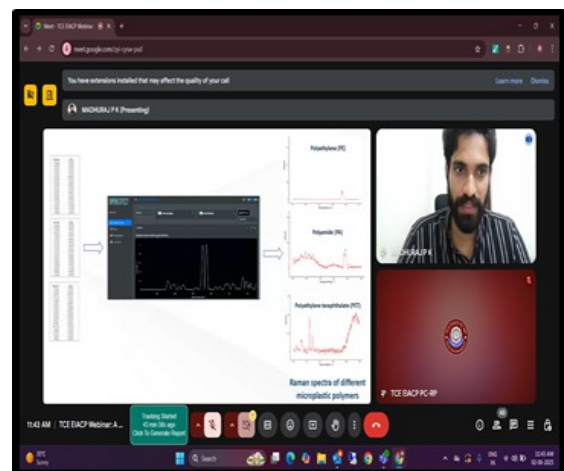
The webinar witnessed the active participation of around 50 attendees, including faculty, researchers, and students, who gained valuable knowledge on the emerging threat of airborne microplastics and the scientific strategies to monitor and address them effectively.

Number of participants : 50

Name of Location/s where activity was carried out: Virtual Mode



Webinar on “A Data-Driven Framework for Urban Atmospheric Microplastic Monitoring and Analysis



Participants attending the virtual session, gaining insights into microplastic pollution monitoring and analytical techniques

7 **Date** : 03.06.2025

Title: Awareness Webinar on Urban mining- E-waste perspective

As part of the World Environment Day 2025 celebrations, TCE EIACP organized an awareness webinar on June 3rd, 2025, titled “Urban Mining: An E-Waste Perspective.” The session was led by Mr. Prasanth Omanakuttan, Founder of Green Era Recyclers, Coimbatore.

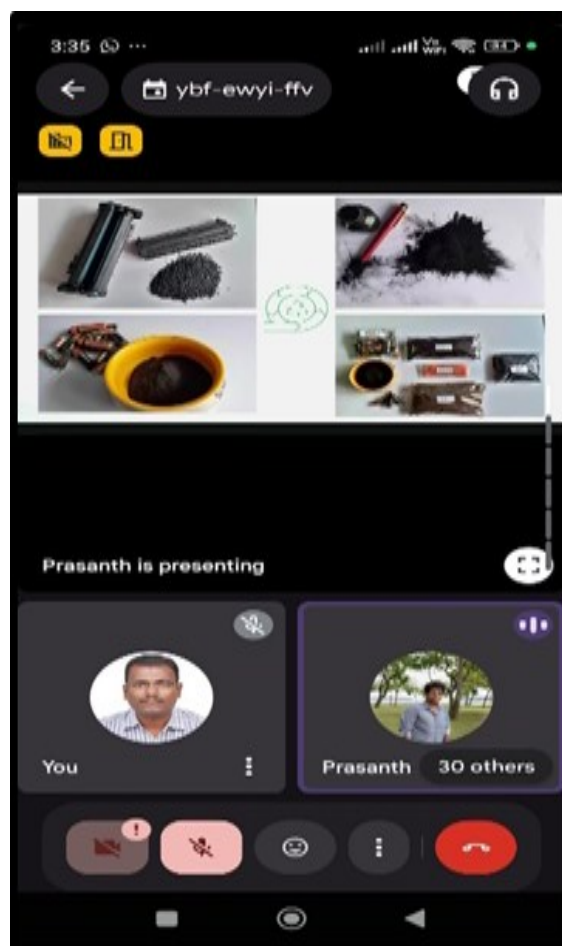
During the session, Mr. Prasanth Omanakuttan, Founder of Green Era Recyclers, Coimbatore, delivered an engaging and informative presentation on the pressing issue of electronic waste (e-waste). He shared valuable insights into the alarming rise of e-waste generation in urban areas and emphasized the significance of urban mining as a sustainable and resource-efficient solution to this growing problem.

He elaborated on the methods of effective e-waste handling, the importance of proper segregation, and the advanced recycling processes that enable the recovery of precious materials such as gold, copper, and rare earth elements from discarded electronic devices. Mr. Omanakuttan also

highlighted the environmental and economic benefits of urban mining, stressing the need for increased awareness, responsible consumer behavior, and stronger policies for e-waste management in India. The webinar attracted around 60 participants, including faculty members, students, and environmental professionals.

Number of participants :60

Name of Location/s where activity was carried out: Online Mode



Webinar on “Urban Mining: An E-Waste Perspective” conducted as part of World Environment Day 2025

Participants attending the online session, gaining insights into e-waste management and resource recovery through urban mining.

8 **Date :** 25.07.2025

Title: Awareness Seminar- Bio Prospective and Importance of Mangrove

On July 25, 2025, TCE EIACP PC-RP in association with TCE SDG Club commemorated the International Day for the Conservation of the Mangrove Ecosystem by organizing a seminar titled “Bioprospective and Importance of Mangrove.” The event was held at the K.S. Auditorium on the TCE campus.

Dr. C. Ravinder Singh, Chief Scientist at Aakash Green., LLC, Dubai, delivered an enlightening keynote address. He emphasized the critical ecological roles of mangroves, including their functions as biodiversity hotspots, natural coastal barriers, and significant carbon sinks. Dr. Ravinder Singh also highlighted the untapped potential of mangroves in biotechnology and sustainable development. The seminar attracted 200 participants, including students, faculty members, and environmental enthusiasts. Attendees gained valuable insights into the multifaceted importance of mangrove ecosystems and the pressing need for their conservation.

Number of participants : 200

Name of Location/s where activity was carried out: KS Auditorium, TCE



Seminar on “Bioprospective and Importance of Mangrove”



Participants gaining insights into the ecological and biotechnological significance of mangroves.

9 Date : 14.08.2025

Title: Awareness Seminar- Mass Awareness Campaign “Thuymai Mission”

The TCE EIACP PC-RP organized a large-scale mass awareness campaign titled “Thuymai Mission” (Clean Mission) on 14 August 2025 for the first-year students of Thiagarajar College of Engineering. The campaign aimed to instill a strong sense of environmental responsibility among budding engineers, encouraging them to become active participants in building a cleaner and more sustainable future.

The event was presented by Dr. A. Ramalinga Chandra Sekar, Co-Coordinator of TCE EIACP PC-RP, who delivered a powerful and insightful lecture to an audience of over 800 students and 20 faculty members representing various engineering disciplines.

In his address, Dr. Sekar elaborated on the pivotal role engineers can play in waste management, not only through innovative technological solutions but also by setting an example in everyday life. He emphasized that cleanliness begins with individual responsibility, and that small,

consistent actions—such as proper waste segregation and reducing single-use plastics—can collectively make a huge impact on the environment.

He also shed light on the centre's ongoing initiatives in managing waste plastics, detailing how the team has been actively involved in promoting plastic waste reduction, reuse, and repurposing—especially in sustainable infrastructure projects like plastic Tar roads. Dr. Sekar connected these activities to the Mission LiFE (Lifestyle for Environment) framework, underscoring how lifestyle changes aligned with this mission can help achieve long-term sustainability goals.

A highlight of the event was the Mission LiFE Pledge taken collectively by all attendees. Standing together, the students and faculty vowed to adopt eco-friendly practices, reduce waste generation, and actively contribute to environmental conservation in their daily lives. This symbolic act not only marked the conclusion of the campaign but also signified the commitment of the TCE community towards building a cleaner, greener nation.

Number of participants :820

Name of Location/s where activity was carried out: KK Auditorium, TCE



Mass awareness campaign “Thuymai Mission- at TCE



First Year Students and faculty taking the Mission LiFE pledge

10 **Date :** 21.08.2025

Title: Mass Awareness Seminar on Sustainable Development Goals

On August 21, 2025, TCE EIACP PC-RP organized a seminar on Sustainable Development Goals (SDGs) for the first-year students of Thiagarajar College of Engineering (TCE), Madurai at the KK Auditorium, TCE. The event was aimed at creating awareness among young engineering students about the importance of sustainability and their role in nation-building.

The seminar was delivered by Dr. A. Ramalinga Chandra Sekar, Co-coordinator of TCE EIACP PC-RP and Assistant Professor, Department of Chemistry, TCE. In his lecture, Dr. Chandra Sekar gave an enlightening and thought-provoking presentation on how the United Nations Sustainable Development Goals can be effectively integrated into our day-to-day life activities. He emphasized that the SDGs are not only global targets but also practical guidelines for leading a responsible and meaningful life, where every individual has a role to play in addressing challenges such as climate change, poverty reduction, gender equality, clean energy, and responsible consumption.

He further highlighted the pivotal role of budding engineers in achieving these goals. By adopting sustainable practices in innovation, technology development, and resource management, engineers can contribute significantly to nation-building and societal progress. He encouraged students to approach engineering not just as a profession, but as a responsibility towards society and the environment.

The seminar received an overwhelming response, with the participation of 600 first-year students and 15 faculty members. The attendees gained valuable insights into how their academic journey, research interests, and professional careers could align with the broader framework of the SDGs. Many students expressed that the session inspired them to think beyond conventional engineering and focus on solutions that support sustainability, inclusiveness, and long-term growth. Through this initiative, TCE EIACP PC-RP reaffirmed its commitment to spreading awareness on sustainability and empowering the younger generation to actively contribute to the achievement of Sustainable Development Goals, thereby fostering a more resilient and responsible society.

Number of participants: 615

Name of Location/s where activity was carried out: KK Auditorium, TCE



Dr. A. Ramalinga Chandrasekar delivering a seminar on Sustainable Development Goals



Students and faculty actively participating in the session, gaining insights into SDGs

11 **Date :** 13.08.2025

Title: Transforming Waste to Wealth: Startup Opportunities

On August 13, 2025 TCE EIACP PC-RP, in collaboration with TCE TBI, organized a seminar on the Innovation & Sustainability as part of its initiatives to encourage entrepreneurship and sustainability among students. The seminar featured an engaging session by Mr. Vinoth Rajendran, CEO of TCE TBI, who delivered a talk on “Lean Startup Essentials.” In his address, he stressed the significance of creating sustainable products and explained how innovative solutions can help in scaling up industries while addressing environmental challenges. He also shared practical strategies for turning ideas into successful enterprises, particularly in the context of resource optimization and waste management.

A total of 30 students actively participated in the programme. They gained valuable insights on how products and materials derived from waste plastics can be elevated into startup ventures, thereby fostering a culture of innovation, circular economy, and sustainable development. Through such initiatives, TCE EIACP PC-RP continues to empower young minds with knowledge and opportunities to contribute towards building a sustainable future.

Number of participants : 30

Name of Location/s where activity was carried out: TCE EIACP Seminar Hall



Seminar on “Transforming Waste to Wealth: Startup Opportunities”



Students gaining insights into sustainable entrepreneurship and waste-to-wealth innovations.

12 **Date :** 29.09.2025

Title: “Seminar on “Role of Engineers in Mitigating Pollution”

On September 29, 2025, In celebration of Seva Parv 2025, the TCE EIACP organized a seminar on the topic “Role of Engineers in Mitigating Pollution” at the TCE EIACP Seminar Hall. The session was delivered by Dr. M. Kottaisamy, Head, Department of Chemistry, Thiagarajar College of Engineering, who shared valuable insights on how engineers can contribute to addressing the pressing issue of air pollution through sustainable technologies and innovative practices. He also shed light on ongoing research initiatives being undertaken in his department aimed at reducing pollution and enhancing environmental sustainability. The seminar witnessed active participation from around 70 students and 5 faculty members, who gained valuable knowledge and inspiration to integrate environmental responsibility into their future careers as engineers.

Number of Participants : 75

Name of Location/s where activity was carried out: TCE EIACP Seminar Hall



Dr. M. Kottaisamy delivering a seminar on “Role of Engineers in Mitigating Pollution”



Students and faculty participating in the session, gaining insights on sustainable technologies for pollution control

13 **Date :** 16.10.2025

Title: Seminar

On October 16, 2025, the TCE EIACP team organized an insightful awareness lecture on “Metal Organic Frameworks (MOFs) for Sustainability”. The session was delivered by Ms. P. Madhu Mathy, Research Scholar (Dept of Chemistry), who shared her expertise on the emerging role of MOFs in promoting sustainable development. During the session, she emphasized that MOFs have immense potential to contribute to India’s sustainable future by enabling cleaner technologies and reducing environmental impacts. She also discussed the innovative applications of MOFs in biosensing, particularly in detecting pollutants and biomolecules with high precision, highlighting their significance in environmental and health monitoring. The lecture sparked curiosity among the participants and encouraged them to explore the intersection of chemistry, material science, and sustainability. The event was well-attended, with around 50 students and 10 faculty members actively participating and engaging in a productive discussion. This initiative was conducted in alignment with the Government of India’s Mission LiFE (Lifestyle for Environment) theme, contributing meaningfully to the promotion of sustainable scientific practices and eco-conscious innovation within the campus. At the end, all the participants took the Mission LiFE pledge reiterating their commitment to make a cleaner and greener future.

Number of Participants : 60

Name of Location/s where activity was carried out: TCE EIACP PC-RP Seminar Hall



Seminar on “Metal Organic Frameworks (MOFs) for Sustainability”



Participants attending the session and taking the Mission LiFE pledge

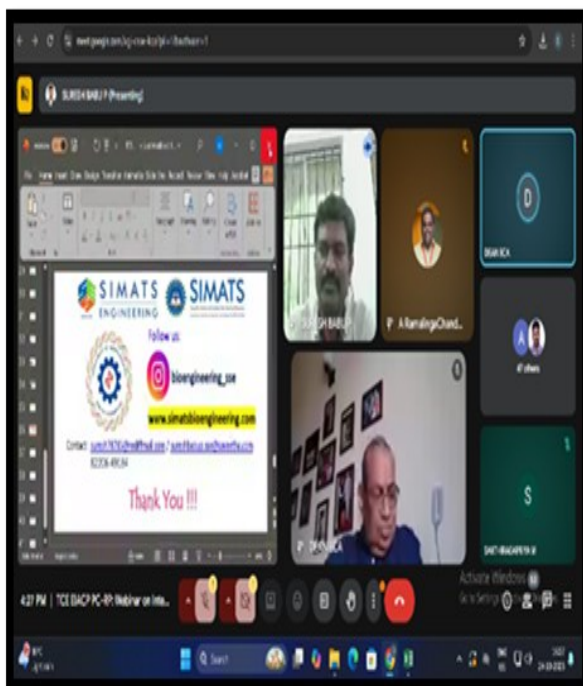
14 **Date :** 24.10.2025

Title: Awareness Webinar (International day of Climate Action 2025)

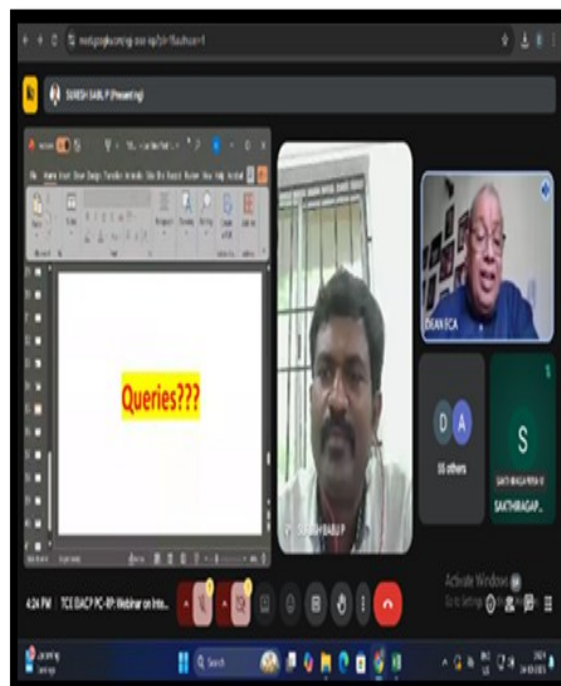
On 24 October 2025, in observance of the International Day of Climate Action, TCE EIACP PC-RP organized a compelling webinar titled “Living Machines: Nature’s Biota as Engines of Climate Resilience & Cleaner Environment”. The session was led by Dr P. Suresh Babu, Professor and Head of the Department of Bioengineering at Saveetha School of Engineering, part of Saveetha Institute of Medical and Technical Sciences (SIMATS), Thandalam, Chennai, Tamil Nadu. Dr. Suresh Babu delivered an insightful lecture that delved into the causes and impacts of climate change, and underscored robust mitigation strategies. He emphasized the urgent need for renewable-energy adoption, major reductions in waste, and empowered community participation in achieving a carbon-neutral future. The webinar attracted around 100 participants, including students, faculty members and environmental enthusiasts from various institutions and disciplines. A lively interactive segment enabled attendees to pose questions and share their views on actionable individual and institutional roles in environmental sustainability.

Number of Participants : 100

Name of Location/s where activity was carried out: Online Mode



Dr. P. Suresh Babu delivering a webinar on “Living Machines: Nature’s Biota as Engines of Climate Resilience & Cleaner Environment.”



Participants attending the online session, engaging in discussions on climate resilience and sustainable environmental practices.

15 **Date** : 17.11.2025

Title: Seminar on “Nanofertilizers for Sustainable Agriculture”

On 17 November 2025, TCE EIACP team organized an awareness lecture. The lecture was delivered by Ms. Gimna, Research Scholar (Dept. of Chemistry), who shared the role of “Nanofertilizers for Sustainable Agriculture”. She explained that nano fertilizers offer a promising approach to sustainable agriculture by enhancing nutrient use efficiency and reducing the negative environmental impacts of conventional fertilizers. Their controlled and targeted delivery of nutrients minimizes losses through leaching, runoff, or volatilization, protecting soil and water quality. By improving crop productivity with lower input, conserving natural resources, and reducing greenhouse gas emissions, nano fertilizers support long-term soil health and promote eco-friendly farming practices, making agriculture more sustainable and resilient. Nano fertilizers represent an innovative and sustainable approach to modern agriculture by enhancing nutrient use efficiency and reducing the environmental footprint of conventional fertilizers. Their nano-sized particles allow for controlled and targeted nutrient delivery, minimizing losses through leaching, runoff, or volatilization, which protects soil and water resources. In addition to improving crop productivity with lower input, they help maintain soil fertility, reduce greenhouse gas emissions, and lower the dependence on chemical fertilizers. By promoting resource-efficient and eco-friendly farming practices, nano fertilizers contribute to long-term agricultural sustainability, food security, and environmental conservation.

Number of Participants : 60

Name of Location/s where activity was carried out: TCE EIACP PC-RP Seminar Hall



Seminar on “Nanofertilizers for Sustainable Agriculture

Participants gaining insights into sustainable agricultural practices using nanofertilizers.

16 **Date** : 06.03.2026

Title: Seminar on Environmental Awareness

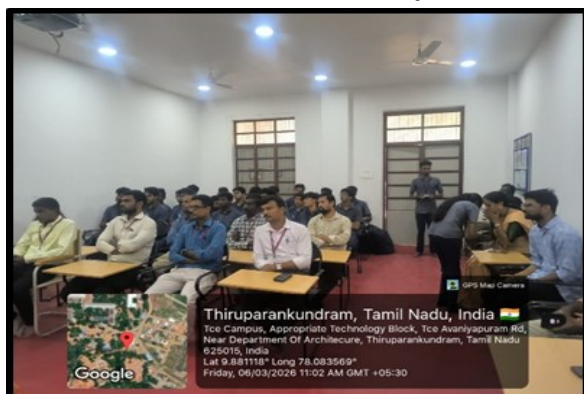
The TCE EIACP PC-RP, Department of Chemistry, Thiagarajar College of Engineering (TCE), Madurai organized a seminar on 06 March 2026 at the TCE Campus, Thiruparankundram, Madurai, Tamil Nadu. The programme aimed to create awareness among students and research scholars on environmental sustainability and responsible practices. The seminar began with a welcome address emphasizing the importance of environmental conservation and the need for sustainable living. The organizing team highlighted key environmental challenges and encouraged participants to adopt eco-friendly habits in their daily lives.

The resource person delivered an insightful lecture covering environmental issues, sustainable solutions, and the importance of community participation. The session emphasized practical

approaches to environmental protection and responsible waste management. Participants actively engaged in the session and gained valuable knowledge on environmental sustainability.

Number of Participants : 60

Name of Location/s where activity was carried out: EIACP Seminar Hall, Madurai.



Resource person delivering a seminar on environmental awareness



Students and research scholars actively participating and gaining insights into sustainability

17 **Date :** 24.03.2026

Title: Seminar on World Water Day 2026 and LiFE Pledge

On the occasion of World Water Day 2026, the TCE EIACP PC-RP, Department of Chemistry, Thiagarajar College of Engineering organized a seminar on 24 March 2026 at the TCE Campus, Thiruparankundram, Madurai. The seminar focused on the theme of water conservation and sustainable water management. The programme aimed to raise awareness about the importance of water resources and the need to address water scarcity and pollution.

The session covered key topics such as water pollution, conservation techniques, and sustainable usage practices. Participants were encouraged to adopt responsible water usage habits and contribute to water conservation efforts. The seminar was interactive, with active participation from students and faculty members. The programme successfully created awareness about the significance of water conservation in the context of environmental sustainability.

Number of Participants : 70

Name of Location/s where activity was carried out: EIACP Seminar Hall, Madurai.



Seminar on World Water Day 2026- focusing on water conservation and sustainable management



Participants engaging in the session, promoting responsible water usage and sustainability.

18 **Date :** 24.03.2026

Title: Webinar on Banana Fiber Derived Nano-Cellulose for the Removal of Textile Dyes

The TCE EIACP PC-RP organized a webinar focusing on innovative and sustainable materials for environmental remediation. The session was conducted in online mode and highlighted the use of banana fiber-derived nano-cellulose in wastewater treatment. The session was delivered by Dr. M. Kottaisamy, Professor & Head, Department of Chemistry, Thiagarajar College of Engineering, Madurai. The speaker elaborated on the development and application of nano-cellulose extracted from banana fibers and its effectiveness in removing textile dyes through absorptive and degradative mechanisms.

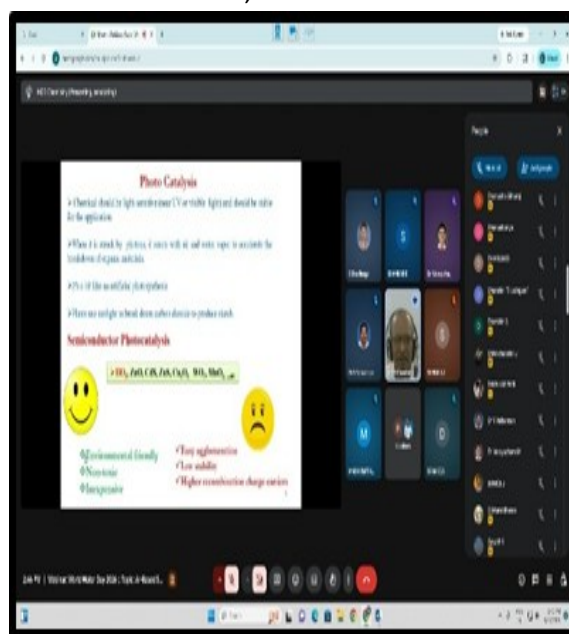
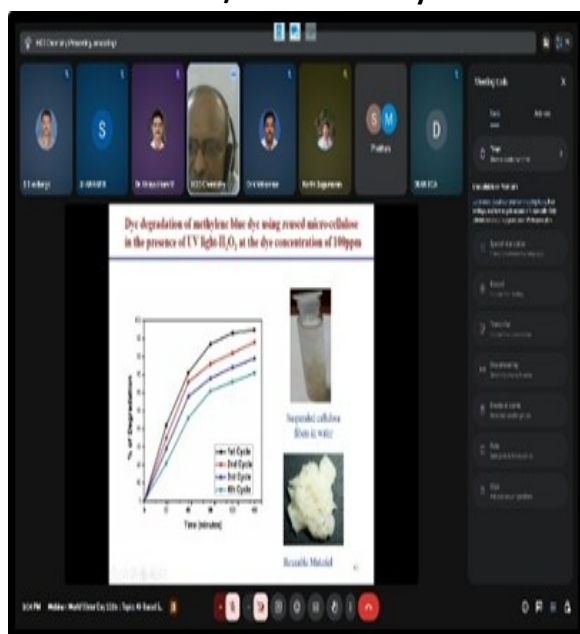
Key topics included:

- Preparation and characterization of banana fiber-derived nano-cellulose
- Adsorptive removal of textile dyes using nano-cellulose composites
- Degradative techniques for dye breakdown
- Environmental benefits of using biodegradable and sustainable materials
- Applications in textile wastewater treatment

The webinar provided valuable insights into eco-friendly and cost-effective approaches for treating dye-contaminated water. Participants showed keen interest and actively engaged during the session.

Number of Participants: 121

Name of Location/s where activity was carried out: EIACP Seminar Hall, Madurai



Dr. M. Kottaisamy delivering a webinar on banana fiber-derived nano-cellulose for textile dye removal

Participants actively attending the session, learning eco-friendly approaches for wastewater treatment

3.Competitions / Celebrations - Details

1 **Date:** 22.04.2025

Title: Competitions for School Students

To commemorate Earth Day 2025, TCE EIACP PC-RP Centre organized Slogan Writing and Drawing Competitions for school students from various institutions through virtual mode. The initiative aimed to foster environmental awareness and encourage creative expression among students.

The Drawing Competition was conducted in two categories:

- Category I: Students from 6th to 8th standard
- Category II: Students from 9th to 12th standard

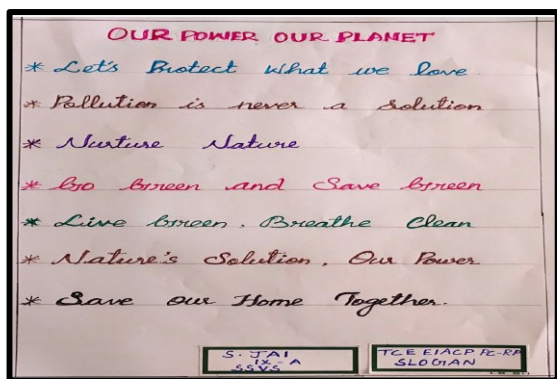
The Slogan Writing Competition was open to students from 8th to 12th standard, providing them an opportunity to express their thoughts and commitment toward environmental protection through impactful slogans.

The best entries will be awarded prizes after a thorough screening of all submissions, recognizing the creativity and environmental consciousness of the participants. These competitions served as an effective platform to instil environmental values and engage young minds in the mission of sustainability and conservation.

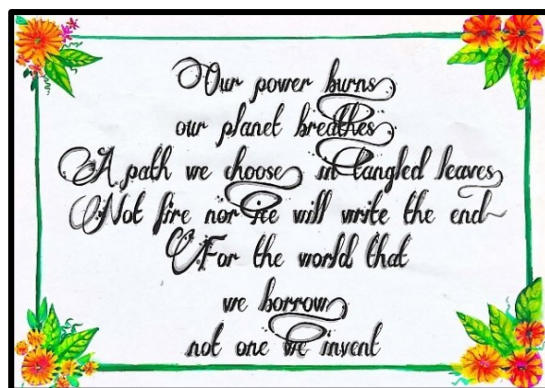
Number of participants :150

Name of Location/s where activity was carried out: Virtual Mode





Earth Day 2025 competitions featuring slogan writing and drawing conducted for school students



Students showcasing creativity and environmental awareness through their competition entries

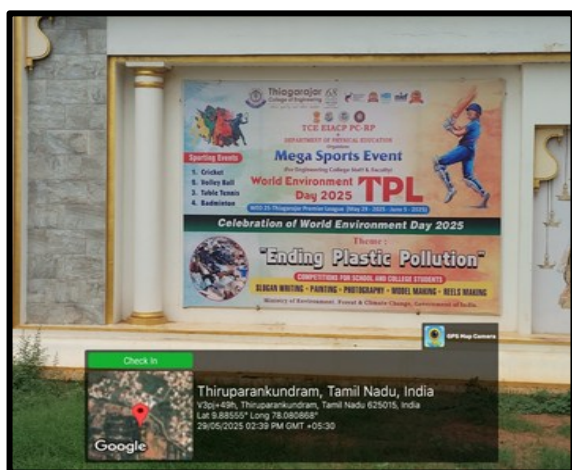
2 Date: 29.05.2025 to 05.06.2025

Title: Display of Banners

Two informative banners have been installed on our college campus: one at the main entrance to promote plastic waste management awareness, and another outside the TCE EIACP Centre detailing the competitions scheduled from May 29 to June 5, 2025, in celebration of World Environment Day.

Banner 1: Plastic Waste Management Awareness to End Plastic Pollution- Join the global movement to combat plastic pollution. Learn how to reduce, reuse, and recycle plastic waste. This banner aims to raise awareness about the detrimental effects of plastic pollution due to improper disposal of plastic and encourages the college community to adopt sustainable practices.

Banner 2: World Environment Day 2025 Competitions- Participate in our exciting competitions from May 29 to June 5, 2025, leading up to World Environment Day on June 5. Engage in activities that promote environmental awareness and sustainability.



TPL 2025



World Environment Day Celebration 2025

To Celebrate World Environment Day 2025, TCE EIACP is hosting a series of competitions through Virtual Mode aimed at raising awareness about environmental issues, particularly plastic pollution, and promoting sustainable practices among students. To promote and encourage participation in the environmental competitions organized for school and college students, a comprehensive poster was designed and displayed.

Competitions for School Students (6th – 12th Standard)

S. No	Name of the Competition	Topics
1	Painting Competition	Ending Plastic pollution
2	Model Making Competition	Waste to Wealth
3	Slogan Writing Competition	Ending Plastic pollution

Competitions for College Students

S. No	Name of the Competition	Topics
1	Photography Competition	Ending Plastic pollution
2	Model Making Competition	Waste to Wealth
3	Reels Making Competition	Ending Plastic pollution

Participants can upload their entries—such as paintings, slogans, reels, photographs, or models—via the designated Google Form link. The form is open for submissions from May 29, 2025, and will close on June 3, 2025.



"TCE TPL WED 25"

In celebration of World Environment Day 2025, the TCE EIACP PC-RP (Environmental Information, Awareness, Capacity Building, and Livelihood Programme – Programme Centre) at Thiagarajar College of Engineering (TCE), Madurai, organized the "TCE TPL WED 25" (Thiagarajar Premier League – World Environment Day 2025) from May 29 to June 5, 2025. This week-long event featured a series of sporting competitions aimed at promoting environmental awareness and fostering a sense of community among participants.

The TCE TPL WED 25 brought together students, faculty, and staff in various athletic events, emphasizing the importance of sustainability and teamwork. By integrating sports with environmental themes, the initiative sought to engage the college community in meaningful conversations about ecological responsibility and the significance of collective action in addressing environmental challenges.



TCE TPL WED 25" sporting events organized to celebrate World Environment Day



Students, faculty, and staff participating in sports activities promoting environmental awareness

3 **Date:** 02.06.2025 to 05.06.2025

Title: Awareness Competitions- World Environment Day 2025

To Celebrate World Environment Day 2025, TCE EIACP Has hosted a series of competitions for both school and college students through Virtual Mode aimed at raising awareness about environmental issues, particularly plastic pollution, and promoting sustainable practices among students. To promote and encourage participation in the environmental competitions organized for school and college students, a comprehensive poster was designed and displayed. This poster showcased the list of competitions, along with their respective themes and eligibility criteria, providing clear information to all potential participants.

Painting Competition- School Students

The painting competition, held as part of WED 25 celebrations centered on the theme “Ending Plastic Pollution,” was organized into two categories: Grades 6–8 and Grades 9–12. In the first category, twenty-five students from Grades 6 to 8 unleashed their creativity, while twenty-eight students from Grades 9 to 12 participated in the second category. The top three performers in each division were awarded certificates and shields in recognition of their exceptional efforts. This initiative aimed to foster environmental awareness and encourage creative expression among students.

Model Making Competition- School Students

The model-making competition on the theme “Waste to Wealth” was held for school students from Grade 6 to Grade 12. A total of ten enthusiastic participants took part in crafting their models, with the top three outstanding entrants being recognized and honored with certificates and shields for their creativity and skill.

Model Making Competition-College Students

A model making competition on the theme “Waste to Wealth” was held for college students, drawing three keen participants. The single best entry was honored with a prize, recognizing the student’s creativity and skill.

Slogan Writing Competition- School Students

The slogan-writing competition was held on the theme “Ending Plastic Pollution” for school students from Grades 6 through 12 to craft impactful slogans. Fourteen enthusiastic participants took part, each aiming to distill the environmental theme into a powerful phrase. The top three performers were celebrated with certificates and shields, and a special award was also presented to one student for particularly innovative and creative wording—recognizing the standout contribution

Reels Making Competition- College Students

A reels-making competition was held for college students, centered on the “Ending Plastic Pollution.” The event attracted 10 enthusiastic participants, each exploring creative ways to raise awareness through short video content. From the entries submitted, the top three performers were recognized for their outstanding contributions. They were each honored with a shield and a certificate, celebrating their powerful and impactful storytelling.

Number of participants :60

Name of Location/s where activity was carried out: Online Mode



Poster showcasing World Environment Day 2025 competitions organized by TCE EIACP for school and college students



Students participating in various competitions, promoting awareness on plastic pollution and sustainable practices

TCE EIACP PC-RP Centre, organized the Thiagarajar Premier League 2025 (TPL '25) from May 29 to June 5, 2025, in celebration of World Environment Day. The event aimed to promote physical fitness, team spirit, and environmental awareness among engineering college faculty members, aligning with the World Environment Day 2025 theme: “Ending Plastic Pollution”.

Event Highlights:

Cricket: Six faculty teams competed, with the final match held on June 5. The winning and runner-up teams received trophies, and all participants were awarded certificates and shields.

Volleyball: Also featuring six teams, the top two teams were honored with trophies, while all players received certificates and shields.

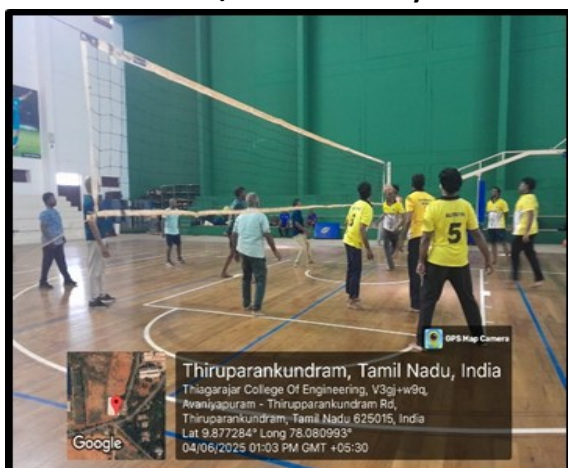
Table Tennis: Ten players participated in singles matches. The top three were awarded trophies, certificates, and shields.

Badminton: Eight teams competed, with winners and runners-up receiving team trophies. All individual players were presented with certificates and shields.

The event concluded on June 5 with a valedictory function, where cash prizes were awarded to both the winning and runner-up teams. TPL '25 successfully combined sports and environmental consciousness, reinforcing the message that a healthy environment begins with healthy, engaged communities.

Number of participants: 2500

Name of Location/s where activity was carried out: TCE



TPL'25 participants Actively participating in sports competitions



The winning and runner-up teams received trophies, and all participants were awarded certificates and shields

4 **Date:** 28.07.2025

Title: Awareness Competitions- World Nature Conservation Day 2025

In observance of Nature Conservation Day 2025, TCE EIACP in coordination with TCE SDG Club organized a series of competitions at SSV Sala Matric Higher Secondary School, Aatukulam, Melur, Madurai. The events aimed to foster environmental awareness and encourage creative expression among students.

Drawing Competition

The drawing competition, centered on the theme "Conservation of Nature," was divided into two categories:

- Grades 1–5: Twenty-five students participated, showcasing their creativity and understanding of nature conservation.
- Grades 6–12: Thirty students took part, presenting more advanced artistic interpretations of the theme.

The top three performers in each category were awarded certificates and cash prizes in recognition of their exceptional efforts.

Elocution Competition

Focusing on the theme "Save Nature," the elocution competition was open to students from Grades 6 to 12. Twenty enthusiastic participants delivered speeches, demonstrating their oratory skills and commitment to environmental issues. The top three speakers were honored with certificates and cash prizes for their outstanding performances.

Skit Competition

The skit competition featured five teams of students performing short plays on environmental protection topics. These performances aimed to convey messages about preserving nature through engaging storytelling. The best-performing teams received certificates and cash prizes as recognition for their creativity and impact.

Number of participants :100

Name of Location/s where activity was carried out: SSV Sala Matric Higher Matric Higher Secondary School, Madurai



Awareness competitions conducted on World Nature Conservation Day 2025 at SSV Sala School, Madurai

Students participating in drawing, elocution, and skit competitions, promoting environmental awareness and creativity

5 **Date:** 16.09.2025

Title: International day for the Preservation of Ozone Layer

On the occasion of the International Day for the Preservation of Ozone Layer (16.09.2025), TCE EIACP PC-RP organized drawing and elocution competitions at our campus with the theme “From Science to Global Action”. The event saw passionate participation of 30 TCE students.

As part of the ozone day observance, a drawing competition was organized to challenge students to creatively express their understanding of ozone depletion and environmental conservation through art. Participants showcased impressive talent by illustrating themes such as the importance of the ozone layer, the harmful effects of pollution, and practical measures to protect our planet. The objective of the competition was to encourage students to visualize the significance of the ozone layer and its protection through creative representations. Using vibrant colors and imaginative ideas, they

highlighted how the ozone layer shields life from harmful UV rays and the potential dangers of its depletion. A total of 15 students participated, and the top performers were recognized with cash prizes. Simultaneously, an elocution competition was conducted, providing a platform for students to articulate their perspectives on environmental issues related to the ozone layer. The participants spoke with passion and clarity about the causes and consequences of ozone depletion, its impact on climate and human health, and the urgent need for collective global action to preserve this fragile protective shield. Here too, 15 students participated, and the best speakers were awarded cash prizes.

Number of participants: 30

Name of Location/s where activity was carried out: TCE EIACP Seminar Hall



Drawing and elocution competitions conducted on the International Day for the Preservation of the Ozone Layer 2025.

Students participating in competitions, expressing awareness on ozone layer protection and environmental conservation.

6 **Date:** 25.09.2025 to 02.10.2025

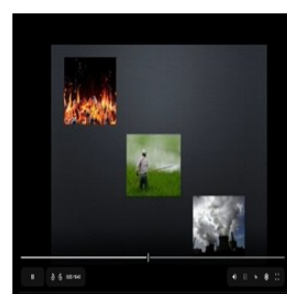
Title: Online Competitions (Seva Parv 2025)

In continuation of Seva Parv 2025 activities, TCE EIACP PC-RP organized during 25.09.2025 to 02.10.2025 Photography and Short Film Making Competitions from focusing on the theme “Air Pollution and Its Effects” The competitions provided a creative platform for students to express their thoughts, ideas, and solutions towards combating air pollution. The online short film contest saw participation from 25 college students, who showcased innovative stories highlighting cause of air pollution, its harmful effects, and possible solutions. The top entries were awarded prizes, recognizing their creativity and ability to communicate the urgency of clean air. This contest aimed to raise awareness among youth and inspire them to take action for improving air quality. Similarly, the online

photography contest attracted 30 participants who captured striking images portraying the reality of air pollution such as smoke, vehicle emissions, and smog, as well as ways to promote cleaner air. The entries were evaluated based on creativity, thematic relevance, originality, and the clarity of the environmental message conveyed. The best entries were recognized and awarded. The event successfully inspired participants and the audience to reflect on the urgent need to reduce air pollution and to contribute towards a cleaner, healthier, and sustainable future.

Number of Participants : 55

Name of Location/s where activity was carried out: Online



Online photography and short film competitions conducted during Seva Parv 2025 on the theme “Air Pollution and Its Effects.

7 Date: 13.12.2025

Title :The Energy Ambassador Programme 2025 (Energy Conservation Day)

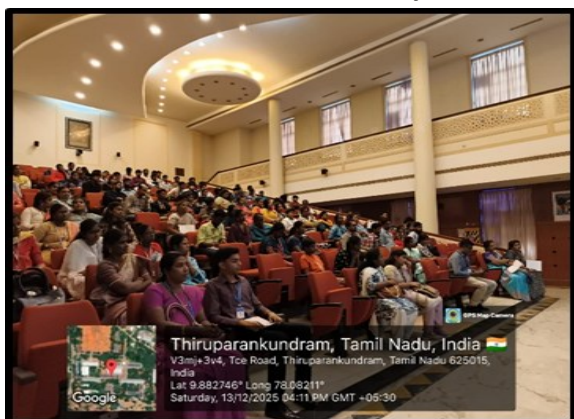
On the occasion of Energy Conservation Day, the Energy Ambassador Programme 2025 (National Level Technical Event) was successfully conducted by TCE EIACP PC-RP in association with Indian Association of Energy Management Professionals (TCE Chapter), and TCE, Madurai with the objective of creating awareness about the importance of energy conservation and promoting sustainable energy practices among students.

As part of this program, online competitions were organized for school and college students to encourage creative thinking and active participation in energy-saving initiatives. The competitions included Slogan Writing, Poster Making, and Energy Conscious Project Models for school students and Energy awareness meme creation, Energy saving campaign, Energy conservation project model for college students. These activities provided students with a platform to express their ideas on efficient energy use, renewable energy sources, and innovative solutions for reducing energy consumption. The online mode ensured wider participation and accessibility, enabling enthusiastic involvement from students across different institutions. The prize distribution ceremony was conducted on 13th December 2025. The chief guest of the event was

Mr. Kumaraguru Rajasekar, Manager (Sustainability CoE), Honeywell Technology Solutions, Madurai. He delivered insightful lecture on energy conservation. The program received an overwhelming response, with participants demonstrating creativity, innovation, and a strong understanding of energy conservation concepts.

Number of Participants :161

Name of Location/s where activity was carried out: TCE Campus



Energy Ambassador Programme 2025 conducted at TCE to mark Energy Conservation Day **Prize distribution ceremony**

4. Workshops / Boot Camp - Details

1 **Date:** 21.04.2025

Title: Awareness Lecture on Importance of Waste plastics

On April 21, 2025, the Department of Chemistry, Thiagarajar College of Engineering (TCE), organized a Summer internship course for school students. As part of the program, Dr. B. Sundarakannan, Programme Officer, TCE EIACP, delivered an engaging lecture on the basics of plastics.

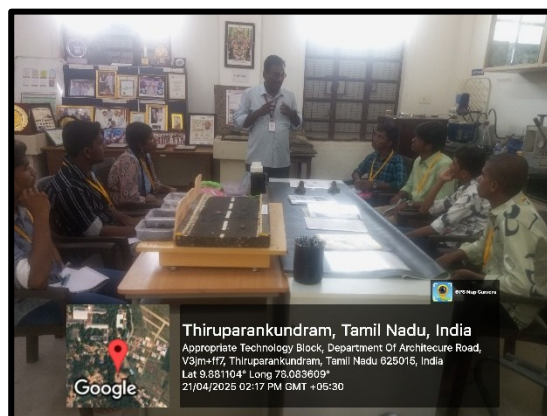
In his session, Dr. Sundarakannan introduced students to the essential role plastics play in everyday life, particularly emphasizing how plastics serve as a vital resource in improving the quality of life for economically disadvantaged communities. The lecture witnessed the enthusiastic participation of 15 school students, who gained valuable insights into the responsible use of plastics and their role in sustainable development. The session successfully raised awareness among young learners about innovative ways to address plastic waste challenges and contributed to advancing the mission of the TCE EIACP Centre, aligned with broader goals of sustainability and environmental conservation.

Number of participants : 15

Name of Location/s where activity was carried out: TCE EIACP Centre



Awareness lecture on the importance and responsible use of plastics to school students



Students actively participating in the awareness session on plastic waste management and sustainability

2 **Date:** 22.04.2025

Title: Awareness Lecture on Plastic Waste Management

On April 22, 2025, the Department of Chemistry, Thiagarajar College of Engineering (TCE), organized a session as part of a Summer Internship course for school students. Dr. R. Vasudevan, Padma Shri Awardee and Coordinator, TCE EIACP, delivered an inspiring lecture on the topic "Plastic Waste Management".

During the session, Dr. Vasudevan shared his rich experiences in the field of plastic waste management and innovation. He actively engaged with the 15 participating students, gathering their ideas and encouraging them to think creatively about solutions for environmental challenges. Dr. Vasudevan explained how their ideas could be further developed into meaningful research projects and applied to benefit society.

The session motivated students to view plastic waste as a resource and highlighted the importance of innovation and research in promoting sustainability and societal development, aligning with the vision of the TCE EIACP Centre.

Number of participants : 15

Name of Location/s where activity was carried out: TCE EIACP Centre



Dr. R. Vasudevan delivering an awareness lecture on plastic waste management



Interactive session with students and sharing innovative ideas on plastic waste management

3 **Date:** 22.04.2025

Title: Hands on Training for School Students

On April 24, 2025, the Department of Chemistry, Thiagarajar College of Engineering (TCE), organized a Summer internship course for school students. As part of the program, Dr. B. Sundarakannan, Programme Officer, TCE EIACP, delivered a detailed lecture and hands-on training session on plastic Tar road laying technology.

During the session, Dr. Sundarakannan explained the importance of sustainable road construction methods and demonstrated the process of utilizing waste plastics in road laying. He also highlighted the environmental benefits of the technology and its role in promoting plastic waste management.

The training witnessed active participation from 15 school students, who gained valuable insights into eco-friendly construction practices. The session successfully created awareness among young students about innovative ways to address plastic waste challenges and contributed to promoting the objectives of the TCE EIACP Centre under the broader goals of sustainability and environmental conservation.

Number of participants :15

Name of Location/s where activity was carried out: TCE EIACP Centre



Demonstrating plastic tar road laying technology during a hands-on training session



Students actively participating in the hands-on training on eco-friendly road construction

4 Date: 05.06.2025

Title: Awareness Session to School Students on Plastic Waste management

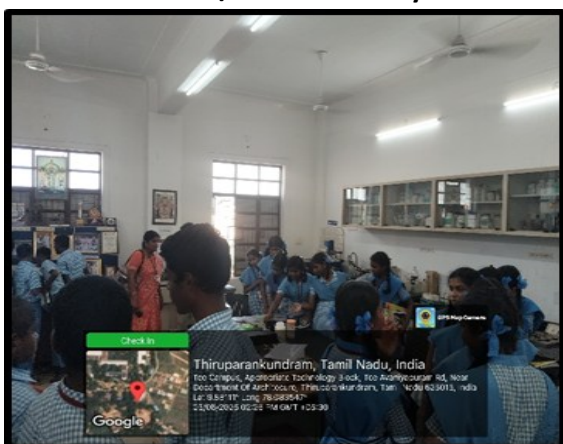
On June 5th, 2025, in observance of World Environment Day, a group of 30 students and faculty members from SSV Sala Matriculation Higher Secondary School, Melur, Madurai visited the TCE EIACP Centre and Laboratory.

During the visit, the team at the centre provided an engaging and informative session on the importance of waste plastics, especially highlighting its role in the daily lives of underprivileged communities. Students were introduced to the concept of plastic waste as a valuable resource, rather than just a pollutant.

The team also demonstrated how waste plastics are utilized in the construction of flexible pavements, explaining the technology and environmental benefits involved. The interactive session helped the students understand practical applications of plastic recycling and inspired them to adopt more sustainable habits in their everyday lives. The students were enthusiastically participated in the session as they explored the role of waste plastics in making the poor man's life easier.

Number of participants : 30

Name of Location/s where activity was carried out: TCE EIACP Centre



Awareness session on plastic waste management conducted for school students



Demonstration of plastic waste utilization in flexible pavement construction

5 **Date:** 24.10.2025

Title: Awareness Lecture (International day of Climate Action 2025)

On 24 October 2025, in alignment with the global observance of the International Day of Climate Action, TCE-EIACP PC-RP organised an awareness lecture for the students of Kendriya Vidyalaya No. 2 (Tiruparankundram), Madurai, Tamil Nadu. The lecture was delivered by Dr. A. Ramalinga Chandrasekar, Co-Coordinator of TCE EIACP PC-RP, who spoke passionately about how climate patterns are undergoing dramatic change due to human (anthropogenic) activities and outlined the key role students can play in environmental preservation. Dr. Sekar emphasized practical steps that young people can start incorporating into their daily lives — choices and habits which, when adopted collectively, can make a meaningful difference in building a cleaner, greener future. The lecture also served to reinforce the larger message of the International Day of Climate Action: that awareness must translate into action and that each individual, including every student, has a part to play in addressing climate change.

The event was well-attended, with about 165 students and 4 teachers participating. They left the lecture not only equipped with knowledge but with a renewed sense of responsibility to act, consistent with the ethos of the International Day of Climate Action. Moreover, the students and teachers present took the Mission LiFE pledge, reaffirming their commitment to live more consciously, reduce waste, conserve resources, and work towards a cleaner and greener future.

Number of Participants : 169

Name of Location/s where activity was carried out: Kendriya Vidyalaya No. 2
(Tiruparankundram),
Madurai, Tamil Nadu.



Dr. A. Ramalinga Chandrasekar delivering an awareness lecture on climate action



Students and teachers participating in the session and taking the Mission LiFE pledge

6 **Date:** 12.11.2025 & 13.11.2025

Title: Awareness Lecture on “Environmental Impacts of Plastic Waste”

To foster environmental consciousness among young minds, an Awareness Lecture on “Environmental Impacts of Plastic Waste” was organized by the TCE–EIACP PC–RP in collaboration with Branding Team of TCE, for students from Government Schools in Madurai District (Nattamangalam, Vickramangalam, Melur and Kidaripatti). More than 300 students visited our campus on 12th and 13th November 2025. An awareness session was conducted for the students. The session aimed to sensitize students to the pressing issue of pollution created because of mishandling of plastic waste and its adverse effects on ecosystems, wildlife, and human health. Through engaging

discussions, visual presentations, and real-life examples, students gained insights into the life cycle of plastics, their persistence in the environment, and the urgent need for finding sustainable alternatives. The TCE EIACP team emphasized the importance of adopting eco-friendly practices guided by the 3Rs — Reduce, Reuse, and Recycle, and encouraged the students to become “Young Green Warriors” committed to protecting our planet. Over 300 enthusiastic students participated in this interactive and inspiring session, sharing their ideas. The program concluded with a pledge on “Mission Life”.

Number of Participants : 300

Name of Location/s where activity was carried out: TCE EIACP Centre



Awareness lecture on environmental impacts of plastic waste conducted for govt. school students



Students actively participating in the session and taking the Mission Life pledge

7 **Date:** 18.11.2025

Title: Boot Camp on “Waste Management”

On November 18, 2025, TCE EIACP organized a one-day boot camp on solid waste management for 60 Class VI students of PM Shri Kendriya Vidyalaya School No. 2, Thiruparankundram, Madurai. A one-day Boot Camp is designed to expose students to various facets of solid waste management, with a special focus on plastic waste management. The program integrates theoretical concepts with practical solutions aimed at reducing waste effectively. At a time when countries across the world are grappling with growing waste management challenges, this camp encourages the younger generation to contribute to society and the environment by adopting small actions that create a big impact.

Dr. M. Kottaisamy, Professor and Head, Department of Chemistry, TCE, introduced the concepts of waste, plastics, and polymers. He provided a comprehensive explanation of various aspects of waste plastics and highlighted the revolution plastics have brought in easing everyday life. He concluded the session by demonstrating his patented innovation that derives petroleum fuels from waste plastics, offering students a practical insight into sustainable technological solutions. Dr. G. Balaji, Professor and Dean of Students, Department of Architecture, TCE, briefed the students on how the geography of Tamil Nadu helped our ancestors manage waste effectively. By the end of the session, students gained valuable insights into Tamil Nadu’s culture, geography and landscape—factors that have played a significant role in traditional water management. He also highlighted the remarkable structures built during the era of Raja Raja Cholan and other rulers, which continue to stand as exemplary models of effective water management. He encouraged the students to draw inspiration from these ancient marvels and aspire to engineer sustainable water and waste management systems in the future. In the post-lunch session, Drawing and Elocution competitions were conducted for all the 60 students on the theme “Waste Management.” Students actively

participated, showcasing their creativity, innovative ideas, artistic skills, and strong communication abilities, reflecting their understanding of the topic. The best performers were awarded cash prizes and shields to motivate them to continue engaging in socially responsible activities and events. To ensure the longevity of the program's impact, the best performers were invested as "Waste Warriors," entrusted with the responsibility of acting as ambassadors to spread these sustainable practices among their peers.

Number of Participants : 60

Name of Location/s where activity was carried out: TCE EIACP PC-RP Seminar Hall



Boot camp on waste management conducted for school students



Students participating in drawing and elocution competitions

8 **Date:** 28.11.2025

Title: State level Science Exhibition on "Sustainable Development Goals"

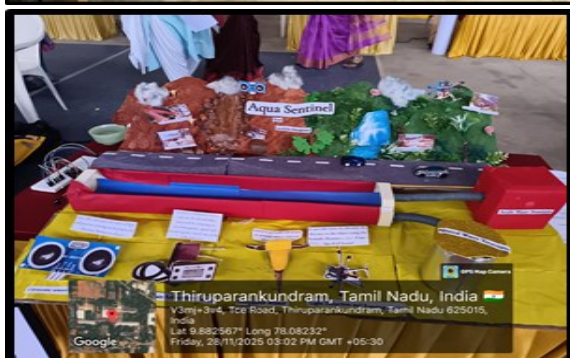
TCE EIACP PC-RP, in association with the Department of Chemistry and TCE SDG Club, successfully conducted the State-Level Science Exhibition for school students on November 28, 2025, at KS Auditorium, TCE.

The event witnessed enthusiastic participation from 70 teams representing 10 districts. A total of 210 students along with 70 teachers exhibited their models. The young minds showcased their innovation and creativity through impressive project displays. The energy and confidence with which students presented their ideas reflected their commitment to building a cleaner and greener future. The exhibition was centered around the theme "Sustainable Development Goals (SDGs)", encouraging students to develop solutions aligned with global priorities such as clean water and sanitation, affordable and clean energy, responsible consumption and production, climate action, sustainable cities, and quality education. Many exhibits highlighted practical approaches to conserving resources, reducing waste, promoting renewable energy, and protecting ecosystems. The event also enabled students to explore the sustainable innovations pioneered by the college, further inspiring them to contribute meaningfully to environmental well-being and a sustainable future.

Around 70 teams, each consisting of three members, showcased their innovative projects. Every project was thoughtfully aligned with the Sustainable Development Goals (SDGs). In total, 210 students enthusiastically presented their models. The Students' Science Exhibition showcased an impressive variety of innovative models and demonstrations created by school students, reflecting their scientific curiosity and commitment to solving real-world problems. The projects covered themes such as environment, energy, sustainability, health, robotics, water conservation, and advanced technologies. Each exhibit demonstrated creativity, hands-on learning, and a strong alignment with the Sustainable Development Goals (SDGs).

Number of Participants : 280

Name of Location/s where activity was carried out: TCE EIACP PC-RP Seminar Hall



State-level Science Exhibition on Sustainable Development Goals showcasing innovative student projects

School students presenting models and demonstrating solutions aligned with SDGs, best ideas awarded with trophy

9 **Date :** 19.12.2025 & 20.12.2025

Title : Stall Exhibition at TEN Summit 2025 – Triveni Expo

TCE conducted TEN Summit 2025 - Triveni Expo on 19th and 20th December 2025 at the TCE campus. Triveni Expo, a multidisciplinary exhibition aimed at promoting innovation, sustainability, and practical technological solutions. As part of this expo, Our EIACP team showcased working and demonstration models on Plastic Road Technology and Plastone Blocks, focusing on the scientific principles, and field-level applicability of plastic waste utilization in infrastructure development. The exhibition attracted a large and diverse audience, including academicians, students, engineers, entrepreneurs, policymakers, and members of the general public from various regions. Detailed technical interactions, live demonstrations, and question-answer sessions facilitated effective knowledge transfer. Overall, TRIVENI EXPO served as an effective platform for demonstrating scalable, eco-friendly solutions and fostering collaboration towards circular economy-based infrastructure development.

Number of Participants : 400

Name of Location/s where activity was carried out: TCE Campus



Visitors engaging in live demonstrations and technical interactions at the EIACP exhibition



EIACP stall showcasing plastic road technology and plastone block models during

10 **Date :** 11.02.2026

Title : Competitions for School Students

A Drawing Competition was conducted on 11 Feb 2026, at Panchayat Union Middle School, Thangalacheri Village, Madurai, with the theme “Save Nature,” providing students with an opportunity to visually express their understanding of environmental conservation. Participants creatively illustrated topics such as biodiversity protection, pollution control, tree plantation, water conservation, and reduction of plastic usage. Through their artwork, students conveyed powerful messages on safeguarding natural resources and maintaining ecological balance. The competition witnessed enthusiastic participation, reflecting the students’ awareness and concern for environmental issues.

In addition, Speech and Essay Writing Competitions were organized on the topic “Plastic Waste Management.” Students actively participated by presenting thoughtful ideas, innovative solutions, and practical suggestions to address the growing problem of plastic pollution. The speeches highlighted the harmful impacts of single-use plastics, the importance of waste segregation, recycling practices, and community responsibility in managing plastic waste. Similarly, the essays reflected analytical thinking, environmental sensitivity, and awareness about sustainable waste management strategies aligned with current environmental challenges.

The competitions not only enhanced students’ knowledge about environmental issues but also strengthened their creativity, public speaking ability, writing skills, and confidence. The evaluation was carried out by a panel of judges based on originality, relevance to the theme, clarity of expression, and overall presentation. Winners were recognized and awarded prizes and certificates in appreciation of their outstanding performance, thereby motivating students to continue their active participation in environmental protection initiatives. Overall, the competitions served as an effective platform for fostering environmental consciousness and nurturing responsible future citizens committed to sustainable development.

Number of Participants :150

Name of Location/s where activity was carried out: Panchayat Union Middle School, Thangalacheri Village, Madurai



School students participating in the drawing competition on the theme “Save Nature”



Students actively engaged in speech and essay competitions on plastic waste management

11 **Date :** 14.02.2026

Title : International Conference (ISICTEEH-2026)

The International Symposium on Innovations in Chemistry, Technology, Engineering & Environmental Health (ISICTEEH-2026) was successfully organized by TCE EIACP PC-RP on 13th and 14th February 2026 in association with the Department of Chemistry, TCE, Madurai. The two-day international conference served as a dynamic platform for academicians, researchers, scientists, industry experts, and students to exchange knowledge, share research findings, and deliberate on emerging trends in chemistry and allied disciplines. The conference witnessed the gracious presence of distinguished professors and researchers from reputed national and international universities. Their participation enriched the academic environment and elevated the scientific discussions to a global standard. The event attracted a large number of delegates, including faculty members, research scholars, postgraduate students, and industry representatives.

EIACP Initiative – Mission LiFE Pledge

As part of the Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP) initiative, a special session was organized to promote environmental responsibility among participants.

All delegates collectively took the Mission LiFE (Lifestyle for Environment) Pledge, reaffirming their commitment to:

- Reduce single-use plastics
- Practice sustainable resource utilization
- Promote waste segregation and recycling
- Encourage eco-friendly research practices
- Contribute to environmental conservation

This initiative emphasized the integration of scientific advancement with environmental responsibility, reinforcing the importance of sustainable lifestyles within the academic and research community.

Technical Sessions

The conference featured multiple technical sessions comprising both oral and poster presentations. Researchers presented innovative findings across diverse areas of chemistry and environmental sciences. Eminent professors from national and international institutions delivered expert lectures on contemporary advancements in chemistry. Their talks addressed global environmental challenges, sustainable chemical innovations, and technological breakthroughs

contributing to societal development. The lectures provided participants with exposure to international research perspectives and emerging scientific methodologies.

Number of Participants : 200

Name of Location/s where activity was carried out: K.S. Auditorium, TCE.



International Conference (ISICTEEH-2026)



Researchers presented innovative findings across diverse areas of chemistry and environmental sciences

5. Awareness at TCE EIACP Lab for Experts - Details

1 **Date:** 04.04.2025

Title: Experts Visit to TCE EIACP Centre-Awareness on Plastic Waste Management

On April 4, 2025, Dr. Mylswamy Annadurai, distinguished space scientist, visited our college. During his visit, TCE EIACP showcased various research initiatives focused on plastic waste management. We also introduced him to the activities of the TCE EIACP Centre, where he applauded the various awareness initiatives undertaken to promote sustainability. Dr. Annadurai was particularly delighted to learn about the plastic Tar road technology. Prof. Dr. R. Vasudevan explained the process of constructing roads using waste plastics and highlighted other sustainable innovations such as plastone.

The event was further graced by the presence of Mr. K. Hari Thiagarajan, Chairman of TCE, and Dr. L. Ashok Kumar, Principal of TCE.

Number of participants : 5

Name of Location/s where activity was carried out: TCE



Dr. Mylswamy Annadurai visiting TCE EIACP Centre and interacting with the team



Demonstration of plastic tar road technology and sustainable innovations

2 **Date:** 12.04.2025

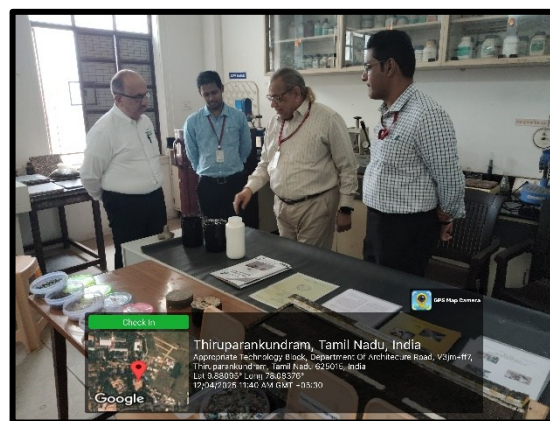
Title: Experts Visit to TCE EIACP Centre-Awareness on Plastic Waste Management

On April 12, 2025, Dr. Krishnaswami Srihari, Dean Emeritus and SUNY Distinguished Professor at the Thomas J. Watson College of Engineering and Applied Science, New York, visited the TCE EIACP Centre and associated laboratories at Thiagarajar College of Engineering, Madurai.

During the visit, Professor R. Vasudevan, Coordinator of the EIACP Centre, warmly welcomed Dr. Srihari and provided an in-depth overview of the Centre's pioneering research initiatives in plastic waste management. Professor Vasudevan elaborated on the Centre's innovative projects, including the development of plastic tar road technology, Plastone blocks, and other sustainable methods for repurposing plastic waste into valuable construction and industrial products. Dr. Srihari showed great appreciation for the Centre's commitment to addressing environmental challenges through practical, scalable solutions. The interaction highlighted potential areas for future academic and research collaborations between TCE and international institutions.

Number of participants : 3

Name of Location/s where activity was carried out: TCE



Dr. Krishnaswami Srihari visiting TCE EIACP Centre and interacting with the team

Demonstration of plastic tar road technology and Plastone block innovations

3 **Date:** 21.04.2025

Title: Experts Visit to TCE EIACP Centre-Awareness on Plastic Waste Management

On April 21, 2025, a team of eight members from Yi Dindigul (Young Indians) visited EIACP Centre at Thiagarajar College of Engineering (TCE), Madurai to gain insights into innovative plastic waste management practices. During the visit, the TCE EIACP team conducted an in-depth discussion on the effective management of plastic waste and its transformation into value-added products. The team explained various sustainable applications of plastic waste, including its incorporation in plastic tar roads, Plastone blocks, and other eco-friendly construction materials. These innovations align with the principles of circular economy and contribute to minimizing environmental pollution while enhancing infrastructure durability.

Dr. R. Vasudevan, Coordinator of the TCE EIACP Centre, addressed the visiting delegation and provided a comprehensive overview of the Centre's ongoing research and development activities in the field of plastic waste repurposing. He shared practical demonstrations and success stories of field implementations across Tamil Nadu and beyond, emphasizing the scalability and environmental benefits of these technologies. The interaction fostered active engagement, with

the Yi Dindigul members showing keen interest in adopting and promoting these solutions within their networks. The visit served as a platform for knowledge exchange and encouraged collaborative efforts toward responsible plastic waste management and sustainable development.

Number of participants : 8

Name of Location/s where activity was carried out: TCE



Yi Dindigul delegation visiting TCE EIACP Centre and interacting with the team



Demonstration of plastic tar road technology and sustainable plastic waste applications

4 Date: 10.05.2025

Title: Visit to Green Era Recyclers, Coimbatore

On May 10, 2025, Dr. A. Ramalinga Chandrasekar, Cooordinator of TCE EIACP PC-RP, and Mr. C. Naveen Arasu, Information Technology Officer, visited Green Era Recyclers in Coimbatore. Green Era Recyclers is an e-waste recycling company authorized by the Tamil Nadu Pollution Control Board, dedicated to sustainable e-waste management practices.

During the visit, Dr. Chandrasekar provided technical guidance on the proper disposal of e-waste, addressing challenges faced by the company in managing accumulated electronic waste. The interaction facilitated a mutual exchange of knowledge, with Green Era Recyclers expressing keen interest in the activities and initiatives of TCE EIACP PC-RP. This collaboration underscores the shared commitment to promoting environmentally sound e-waste management practices and highlights the importance of technical support in enhancing recycling operations.

Number of participants : 5

Name of Location/s where activity was carried out: Coimbatore



Visit of TCE EIACP team to Green Era Recyclers, Coimbatore

5 **Date:** 11.06.2025

Title: Awareness Session to TCE EICAP Centre- Experts Visit from Bangalore

On 11 June 2025, Nithish Sujay from Bangalore visited the TCE EICAP Centre at Thiagarajar College of Engineering. During his visit, our EICAP team shared a clear and engaging overview of our ongoing work in combating plastic pollution.

First, we introduced our plastic–tar road technology, developed under the guidance of Dr. R. Vasudevan. This process involves shredding waste plastic, mixing it with hot bitumen and aggregate to pave roads that are stronger, more water-resistant, and more durable—while also reducing bitumen use by around 8-10% .

Mr. Sujay was actively involved, asking insightful questions about scalability and potential for implementation in Bangalore. He appreciated the practicality of converting plastic waste into durable infrastructure material. Overall, the visit concluded positively, with both sides expressing interest in initiating pilot projects in Bangalore—leveraging our proven technologies to transform plastic waste into strong, sustainable roads and construction materials.

Number of participants : 2

Name of Location/s where activity was carried out: TCE EICAP Centre



Expert visitor from Bangalore interacting with the TCE EICAP team on plastic waste management



Demonstration of plastic–tar road technology and discussion on its scalability and implementation

6 **Date:** 20.06.2025

Title: Awareness Session to TCE EICAP Centre- Experts Visit from UK

On 20 June 2025, a delegation of experts from the UK, representing Thiagarajar Mills, visited the TCE EICAP Centre at Thiagarajar College of Engineering. During their visit, our EICAP team offered a clear and engaging overview of our efforts to combat plastic pollution.

We began by explaining our innovative plastic–tar road technology—a method that blends shredded plastic waste with hot bitumen and aggregate to produce roads that are more durable, water-resistant, and sustainable. We highlighted how this approach not only improves road quality but also helps reduce plastic waste in the environment.

Next, we introduced our range of eco-friendly products, including plastone blocks, which are made from recycled plastics combined with stone. These blocks are designed as sustainable construction materials, reusing plastic in practical and long-lasting ways. Throughout the presentation, our team emphasized the environmental benefits—showing how plastic waste can be transformed into valuable infrastructure materials that support waste reduction and resource

efficiency. The UK experts listened attentively, asked thoughtful questions about scalability and potential industrial partnerships, and expressed strong interest in collaborating on pilot projects.

Number of participants : 5

Name of Location/s where activity was carried out: TCE EIACP Centre



Expert delegation visiting TCE EIACP Centre and interacting with the team



Demonstration of plastic–tar road technology and plastone block innovations

7 **Date:** 30.06.2025

Title: College Students Visit- TCE EIACP Centre

On 30 June 2025, around 20 college students from various institutions across Tamil Nadu visited the TCE EIACP Centre at Thiagarajar College of Engineering. During the visit, the EIACP team shared an insightful and easy-to-understand presentation on plastic-waste technologies.

The students learned about our innovative plastic–tar road technology, which mixes shredded plastic with aggregate to build roads that are stronger, more flexible, and longer-lasting—helping reduce plastic pollution. We also demonstrated our eco-friendly plastone blocks, made solely from plastics and stone. These sustainable building materials showcase how plastic waste can be turned into durable construction products

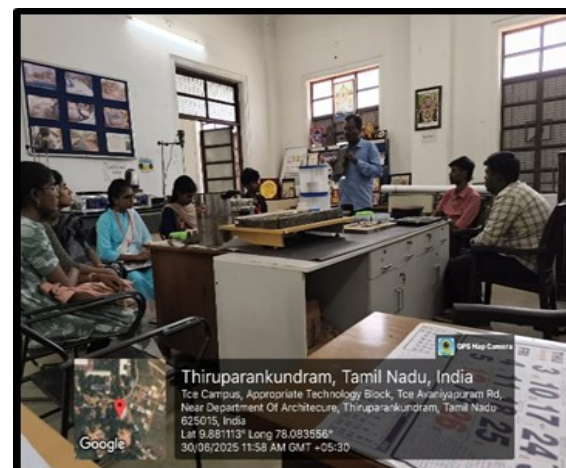
About 20 students participated actively, asking questions and engaging with the team. The session highlighted how these technologies can transform plastic waste into valuable infrastructure, inspiring the next generation to contribute to environmental sustainability.

Number of participants : 20

Name of Location/s where activity was carried out: TCE EIACP Centre



College students visiting TCE EIACP Centre



Attending a session on plastic waste management technologies

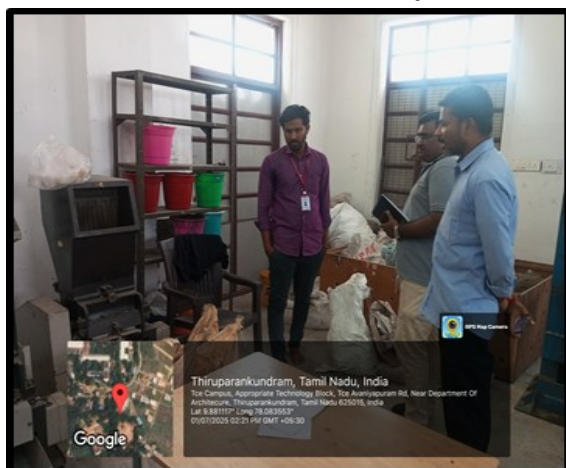
8 **Date:** 01.07.2025

Title: Experts Visit to TCE EIACP Centre from Aquagri Processing Pvt Ltd.

Mr. Sathish Kumar and Mr. Subakaran from Aquagri Processing Pvt. Ltd., Manamadurai, Sivagangai, recently visited the TCE EIACP Centre at Thiagarajar College of Engineering, Madurai. During their visit, the TCE EIACP team showcased innovative applications of waste plastics in infrastructure, particularly the construction of plastic tar roads. This technology, pioneered by Prof. R. Vasudevan—often referred to as the "Plastic Man of India"—utilizes waste plastic to enhance road durability and sustainability. The team also introduced 'Plastone', a sustainable building material developed by Prof. Vasudevan. Plastone is created by combining waste plastic with stone aggregates, offering a durable and water-resistant alternative to conventional construction materials. Each Plastone block repurposes approximately 300 plastic carry bags and six PET bottles, making it an effective solution for plastic waste management. Impressed by these sustainable innovations, Mr. Subakaran expressed keen interest in implementing Plastone blocks within their company's operations. This potential collaboration underscores Aquagri's commitment to environmental sustainability and the practical application of eco-friendly technologies.

Number of participants : 02

Name of Location/s where activity was carried out: TCE EIACP Centre



Experts from Aquagri Processing Pvt. Ltd. visiting TCE EIACP Centre



Demonstration of plastic-tar road technology and plastone block applications

9 **Date:** 07.08.2025

Title: Expert from Universidad de Atacama, Chile- Visit to TCE EIACP Centre.

On August 7, 2025, Dr. Jebiti Haribabu, Assistant Professor at the Universidad de Atacama, Chile, visited the TCE EIACP Centre.

The visit served as an opportunity for knowledge exchange and to explore potential avenues for collaboration. The TCE EIACP team provided him with a detailed overview of the various initiatives undertaken by the centre, particularly those aimed at mitigating plastic waste through innovative solutions. Dr. Haribabu showed keen interest in the centre's efforts, especially the pioneering work in incorporating waste plastics into flexible pavement construction — a practice that not only diverts plastic waste from landfills but also enhances road performance. He expressed his appreciation for the team's dedication to sustainable practices and their real-world applications.

Impressed by the outcomes achieved, Dr. Haribabu conveyed his enthusiasm for future collaborations through institutional interaction, opening the door for joint projects and research opportunities between TCE and the Universidad de Atacama.

Number of participants : 02

Name of Location/s where activity was carried out: TCE EIACP Centre



Dr. Jebiti Haribabu from Universidad de Atacama visiting TCE EIACP Centre



Demonstration of plastic-based flexible pavement technology

10 Date: 07.08.2025

Title: Expert from Universidad de Atacama, Chile- Visit to TCE EIACP Centre.

On August 7, 2025, five students from TCE visited the TCE EIACP Centre to gain insights into innovative sustainability practices. Dr. R. Vasudevan, Padma Shri awardee and Coordinator of TCE EIACP, briefed them on the pivotal role of waste plastics in creating durable and sustainable flexible pavements. He explained how this approach not only addresses the pressing issue of plastic waste management but also enhances road performance and longevity. During the interaction, Dr. Vasudevan also shared his extensive experience and contributions in this domain, offering real-world perspectives on sustainable road construction. The students expressed keen interest in contributing to initiatives aimed at building a more sustainable and healthier planet, reflecting the seminar's impact in inspiring young minds toward environmental stewardship.

Number of participants : 05

Name of Location/s where activity was carried out: TCE EIACP Centre



Dr. R. Vasudevan addressing TCE students on plastic waste utilization in sustainable road construction



Students interacting and learning about flexible pavement technology

11 **Date:** 22.08.2025

Title: Awareness Seminar- Awareness Seminar on “Plastic Waste Management”

On august 22,2025, The TCE EIACP PC-RP organized a seminar on Plastic Waste Management for the first-year Computer Science and Engineering students of TCE at the TCE EIACP Seminar Hall.

Around 35 students participated in this interactive session. The TCE EIACP team elaborated on the various research activities carried out at the centre aimed at mitigating plastic waste pollution. The students were introduced to innovative and sustainable alternatives developed at the centre, such as Plastone, and their potential applications. The session also highlighted how waste plastics can be effectively utilized in the construction of flexible pavements, demonstrating the role of engineering innovation in addressing environmental challenges.

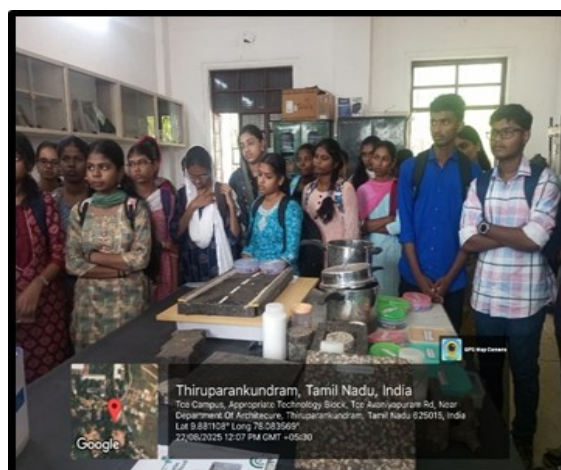
The seminar provided the participants with valuable insights into waste-to-resource technologies and inspired them to contribute towards creating a sustainable future.

Number of participants :35

Name of Location/s where activity was carried out: TCE EIACP Seminar Hall



Awareness seminar on plastic waste management



Students engaging in the session and learning about plastone

12 **Date:** 11.09.2025

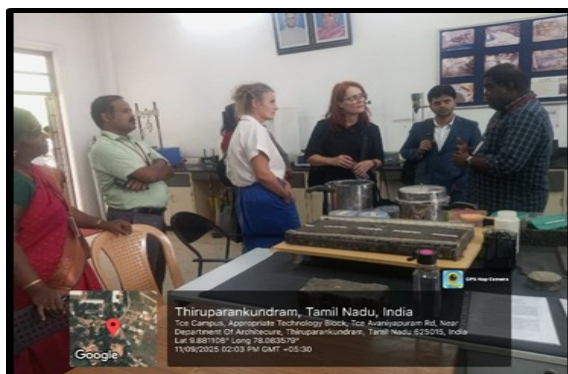
Title: Experts visit to TCE EIACP Centre

On September 11, 2025, delegates from Denmark visited the TCE EIACP Centre. The team included Christapel Reyam from the University of Southern Denmark, HelleScereustru from the University of Denmark, Sarah Jram from Aarhus University, along with two other members.

During the visit, Dr. A. Ramalinga Chandra Sekar, Co-Coordinator of TCE EIACP, made a detailed presentation on the Centre’s pioneering work in utilizing waste plastics for the construction of sustainable and durable flexible roads. He explained how this innovation effectively tackles the twin challenges of plastic waste management and the need for long-lasting road infrastructure. The process not only reduces the environmental burden of plastic pollution but also results in stronger, more resilient, and cost-effective roads. The delegation was highly engaged and raised several questions about the different research initiatives currently underway at the Centre. They showed particular interest in projects focusing on waste plastic incorporation in bitumen modification, sustainable construction practices, and large-scale implementation possibilities. Impressed by the outcomes and potential of this technology, the experts expressed their willingness to explore avenues for collaboration and even conveyed their enthusiasm to take this project forward in their own country as a model for sustainable infrastructure development.

Number of participants : 5

Name of Location/s where activity was carried out: TCE EIACP Centre



Delegates from Denmark visiting TCE EIACP Centre



Attending a presentation on plastic waste utilization in road construction

13 Date: 24.09.2025

Title: Experts visit to TCE EIACP Centre

Mr. Vino John, Managing Director of KLYMATE, Coimbatore, along with two of his staff members, visited the TCE EIACP Centre on 24th September 2025. The team was warmly welcomed and taken through the centre's initiatives and ongoing research activities. Mr. M. Chander Kumar, Information Officer, provided a detailed insight into the various innovative approaches adopted for effective management and utilization of waste plastics.

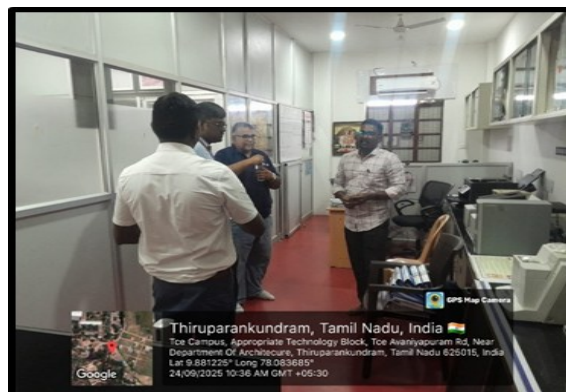
During the interaction, Mr. Vino John showed particular curiosity about the innovative use of waste plastics in flexible pavement construction. He was highly impressed with the concept and the successful demonstrations of this technology. He expressed keen interest in adopting this approach by laying plastic roads within his company's solar park, seeing it as a step that complements the company's ongoing efforts in clean energy generation. Being a professional engaged in the field of solar energy and sustainability, Mr. Vino John emphasized the importance of integrating sustainable technologies across different sectors. He appreciated the EIACP Centre's role in promoting plastic waste management as a resource-oriented approach and shared his willingness to implement and propagate these eco-friendly practices within his company and beyond. His visit reflected a strong commitment to building a greener future by merging renewable energy solutions with sustainable waste management practices.

Number of participants : 3

Name of Location/s where activity was carried out: TCE EIACP Centre



Mr. Vino John and team visiting TCE EIACP Centre



Discussion on the implementation of plastic-based flexible pavement technology

14 **Date:** 07.11.2025

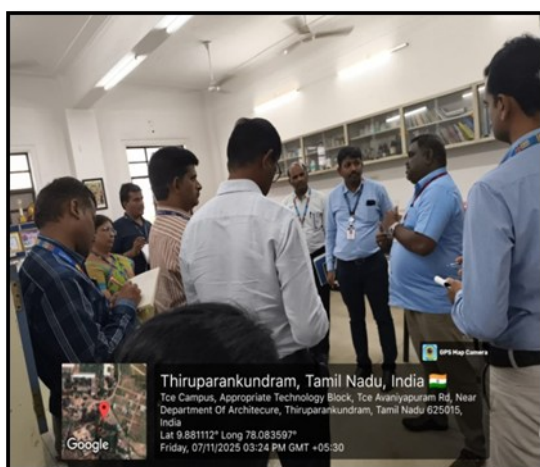
Title: Experts Visit to TCE EIACP PC-RP Centre

On 7th November 2025, a team of professors from Nandha Engineering College, Erode District and K. S. Rangasamy College of Technology, Namakkal District, Tamilnadu, visited our TCE EIACP Centre as part of knowledge-sharing initiative. The purpose of their visit was to understand the ongoing research activities and technological advancements carried out by our centre, particularly in the area of Plastic Road Laying Technology. During the interaction, Dr. A. Ramalinga ChandraSekar also shared his extensive experience and contributions in this domain, offering real-world perspectives on sustainable road construction.

The visiting team was warmly welcomed by our Co-coordinator of TCE EIACP Centre, Dr. A. Ramalinga ChandraSekar, who then led an interactive session highlighting the innovative work being done in sustainable road construction. The Co-coordinator explained the technical process, advantages, and environmental significance of plastic road technology. The professors appreciated the center's research initiatives and expressed interest in collaborative projects related to sustainable infrastructure development. The visit was highly productive and fostered academic collaboration between institutions. The detailed explanation provided by our Co-coordinator on plastic road laying technology helped the visitors gain valuable insights into practical, eco-friendly road construction methods. The session strengthened mutual understanding and paved the way for future partnerships.

Number of Participants : 20

Name of Location/s where activity was carried out: TCE EIACP Centre



Professors from engineering colleges visiting TCE EIACP Centre

Interactive discussion on sustainable road construction and collaboration opportunities

15 **Date:** 21.11.2025

Title: Experts Visit to TCE EIACP PC-RP Centre

The Headmistress of Velammal International School, visited the TCE EIACP Centre on November 21, 2025. The TCE EIACP team briefed them on the sustainable solutions developed in-house through patented processes and products made from waste plastics, including Plastic Tar Roads, Plastone blocks, Tetrapods, and more. The Headmistress expressed their appreciation for the centre's innovative research initiatives and its commitment to environmental sustainability. Their visit further reinforces our continued efforts toward building a cleaner and greener future.

Number of Participants : 1

Name of Location/s where activity was carried out: TCE EIACP Centre



Headmistress of Velammal International School visiting TCE EIACP Centre



Demonstration of plastic tar road technology, plastone blocks

16 **Date:** 03.01.2026

Title: Experts Visit to TCE EIACP PC-RP Centre

Experts visited the TCE EIACP Centre on 3rd Jan 2026 to review and interact with the activities carried out at the centre, with a special focus on innovative technologies developed for plastic waste management. During the visit, the experts were briefed on the objectives, ongoing initiatives, and outreach activities of the EIACP Centre. As part of the interaction, our Co-ordinator,

Dr. A. Ramalinga Chandra Sekar explained the Plastic Tar Road Technology, which utilizes waste plastic as a partial replacement for bitumen in road construction.

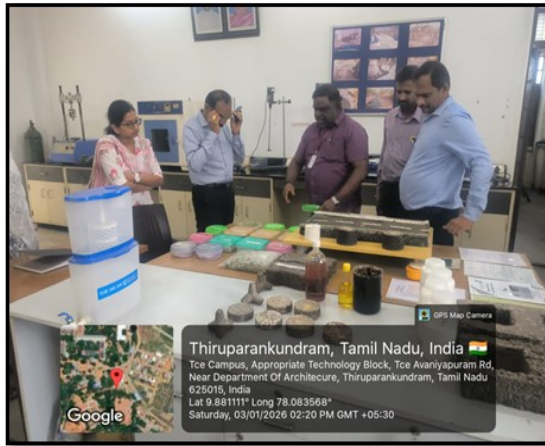
The technology highlights effective utilization of non-biodegradable plastic waste, improvement in road durability, enhanced resistance to water stagnation, and reduction in environmental pollution caused by improper plastic disposal. The technical process, material composition, advantages, and environmental benefits of the plastic road technology were clearly demonstrated to the experts. The Plastone Block Technology was also presented, wherein waste plastic is converted into durable construction blocks by combining it with suitable aggregates.

The experts were informed about the manufacturing process, physical and mechanical properties of plastone blocks, potential applications in pavements and non-load-bearing structures, and the role of this technology in promoting circular economy and sustainable construction practices. The experts appreciated the innovative approaches adopted by the TCE EIACP Centre in addressing plastic waste challenges and acknowledged the potential of these technologies for large-scale implementation.

The visit facilitated technical discussions, exchange of ideas, and valuable suggestions for further improvement, dissemination, and field-level application of the technologies. Overall, the expert visit strengthened knowledge sharing, validated the relevance of the centre's work in sustainable waste management, and encouraged continued efforts towards environmentally responsible and scalable solutions.

Number of Participants : 4

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Experts visiting TCE EIACP PC-RP Centre



Attending a briefing on plastic waste management technologies.

17 **Date:** 06.01.2026

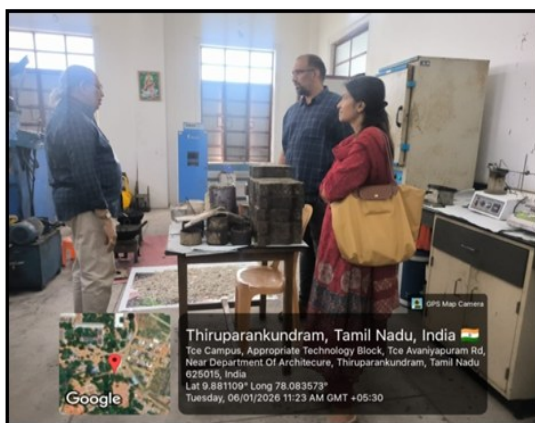
Title: Experts Visit to TCE EIACP PC-RP Centre

Mr. Srikesh & Team visited TCE EIACP Centre on 6th Jan 2026 to review and understand the centre's initiatives related to plastic waste management and sustainable construction practices. The visit focused on knowledge exchange and demonstration of innovative technologies developed at the centre.

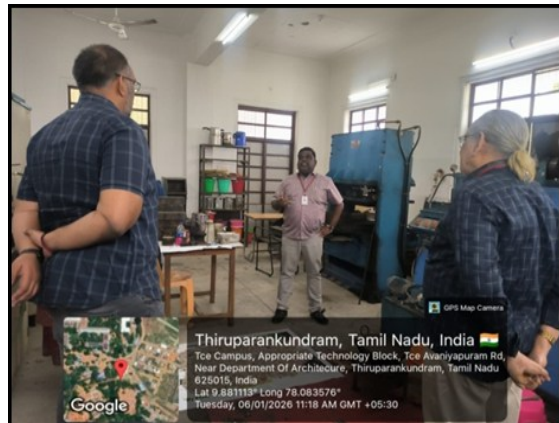
During the interaction, the team explained the Plastic Tar Road Technology, highlighting the use of waste plastic in road construction to enhance durability while reducing environmental pollution. The Plastone Block Technology was also presented, showcasing the conversion of plastic waste into construction blocks suitable for various applications. The experts appreciated the practical approach adopted by the EIACP Centre and provided constructive suggestions for further improvement and wider implementation. The visit supported technical discussions and reinforced the relevance of the centre's work in promoting environmentally sustainable solutions.

Number of Participants : 2

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Mr. Srikesh and team visiting TCE EIACP PC-RP Centre and interacting with the team



Demonstration of plastic tar road and plastone block technologies

18 **Date:** 30.01.2026

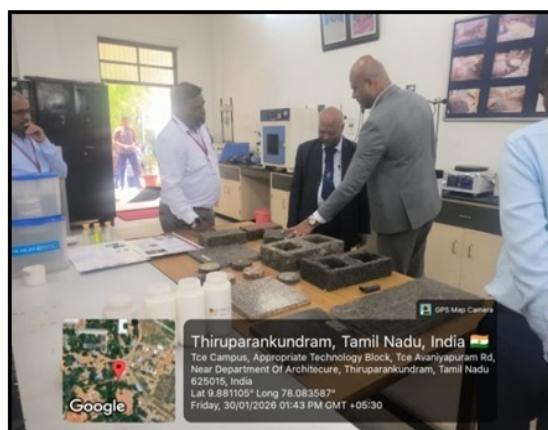
Title: Experts Visit to TCE EIACP PC-RP Centre

Dr. Dutta from IIT, Kharagpur visited our TCE EIACP Centre during NBA visit on 30th Jan 2026 to review the centre's initiatives in the field of plastic waste management and sustainable construction technologies.

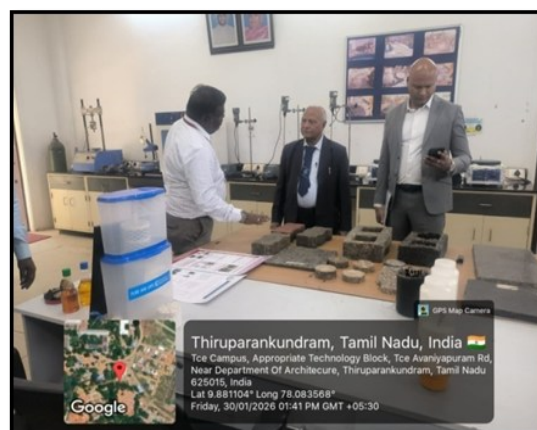
During the visit, the objectives and activities of the EIACP Centre were explained, highlighting its role in promoting environmentally responsible and innovative solutions. The interaction provided an opportunity for technical discussion and exchange of knowledge. The team demonstrated the Plastic Tar Road Technology and Plastone Block Technology, explaining the processes involved, environmental benefits, and potential applications. The experts appreciated the practical approach adopted by the centre and offered valuable suggestions for improvement and wider implementation.

Number of Participants : 15

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Dr. Dutta from IIT Kharagpur visiting TCE EIACP PC-RP Centre



Reviewing plastic waste management initiatives

19 **Date:** 30.01.2026 & 31.01.2026

Title: Experts Visit to TCE EIACP PC-RP Centre

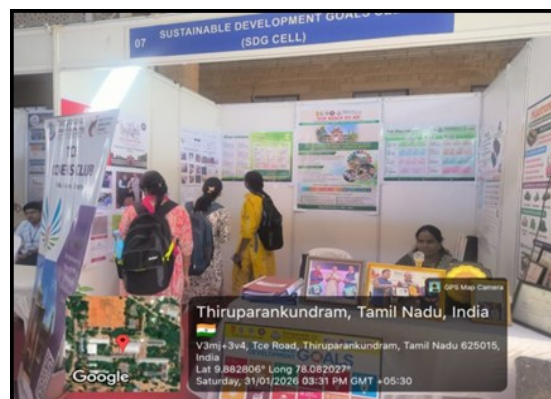
During the NBA peer team visit to our college on 30th & 31st Jan 2026, TCE EIACP Centre set up an exhibition stall to present its major environmental initiatives and outreach activities. The stall showcased sustainable plastic-based innovations, including a plastic tar road model and plastone blocks developed using waste plastic, highlighting practical applications of plastic waste management. Informational displays and explanations were provided to familiarize the visiting NBA team with the Centre's role in promoting environmental awareness, sustainable development goals, and Mission LiFE objectives. The stall served as an effective platform to demonstrate the Centre's contributions to environmental education, research dissemination, and community outreach, thereby enhancing the visibility of EIACP activities during the accreditation visit.

Number of Participants : 600

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Exhibition stall showcasing plastic tar road model and plastone blocks during NBA peer team visit



Visitors interacting with EIACP team and learning about sustainable plastic waste management initiatives

20 **Date:** 05.02.2026

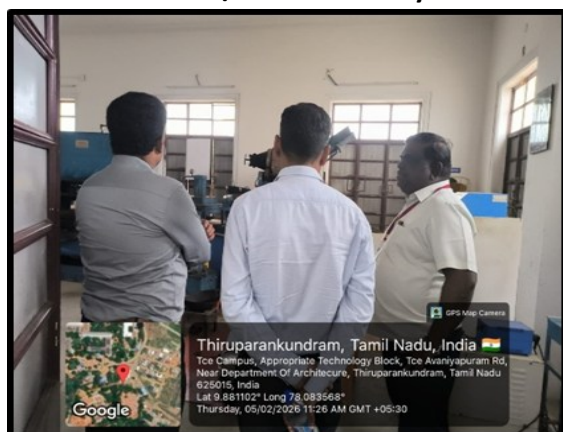
Title: Experts Visit to TCE EIACP PC-RP Centre

Priyesh Kumar & Team from Vertis Infrastructure Trust- Mumbai, visited the TCE EIACP Centre on 5th Feb 2026. As part of the interaction session, Our Coordinator, Dr. A. Ramalinga Chandra Sekar, presented the Plastic Tar Road Technology, which involves the utilization of waste plastic as a partial substitute for bitumen in road construction.

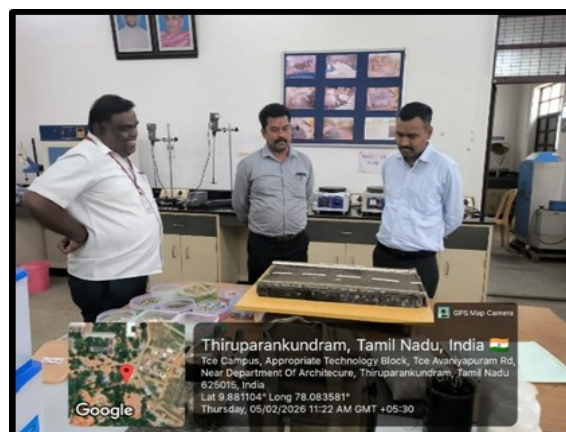
The presentation highlighted the effective management of non-biodegradable plastic waste, enhancement of road strength and durability, improved resistance to water stagnation, and mitigation of environmental pollution caused by improper plastic disposal. The technical methodology, advantages, and environmental benefits of the technology were clearly explained and demonstrated to the experts. In addition, the Plastone Block Technology was showcased, wherein processed plastic waste is blended with suitable aggregates to produce durable construction blocks. The experts were briefed on the manufacturing procedure, mechanical characteristics, strength properties, and practical applications of plastone blocks in pavements and non-load-bearing structures. The role of this technology in promoting circular economy principles and sustainable construction practices was also emphasized.

Number of Participants : 2

Name of Location/s where activity was carried out: TCE EIACP PC-RP Centre



Priyesh Kumar and team from Vertis Infrastructure Trust visiting TCE EIACP PC-RP Centre



Demonstration of plastic tar road and plastone block technologies to the visiting experts

6. Miscellaneous – Outreach Other District Covered - Details

1 **Date:** 21.05.2025

Title: Awareness Pamphlet Distribution at Mandela Nagar, Madurai

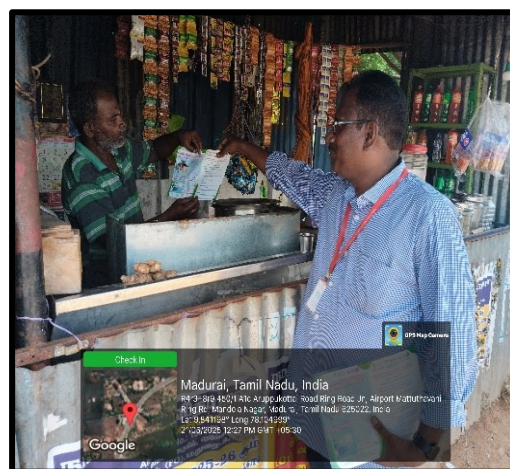
On May 21, 2025, the TCE EIACP PC-RP team conducted a plastic waste management awareness campaign at the Mandela Nagar, Madurai. As part of this initiative, informational pamphlets were distributed to local residents and commercial establishments, aiming to educate them on the environmental impacts of plastic pollution and promote sustainable waste management practices. Specifically, pamphlets were distributed to 100 shops in the area, emphasizing the importance of reducing plastic usage and adopting eco-friendly alternatives. During the campaign, Dr. B. Sundarakannan, Programme Officer of TCE EIACP, engaged with the community to educate them on effective methods for handling plastic waste.

Number of participants : 100

Name of Location/s where activity was carried out: Mandela Nagar, Madurai



Distribution of awareness pamphlets on plastic waste management to local shops at Mandela Nagar, Madurai



Interaction with community members highlighting sustainable practices responsible plastic waste management

2 **Date:** 30.05.2025

Title: Awareness Pamphlet Distribution at Thiruparankundram, Madurai

On May 30, 2025, TCE EIACP PC-RP team conducted a plastic waste management awareness campaign in the outskirts of Thiruparankundram, Madurai. As part of this initiative, informational pamphlets were distributed to local residents and commercial establishments, aiming to educate them on the environmental impacts of plastic pollution and promote sustainable waste management practices. This outreach effort aligns with TCE EIACP's ongoing commitment to environmental education and community engagement, complementing their previous awareness drives in the region. During this initiative, Mr. C. Naveen Arasu, Information Technology Officer, engaged with the public and emphasized how even small actions—such as the proper disposal of plastic waste—can significantly contribute to building a cleaner and greener environment.

Number of participants : 50

Name of Location/s where activity was carried out: Thiruparankundram



Distribution of awareness pamphlets on plastic waste management to residents and shops at Thiruparankundram, Madurai



Public interaction highlighting the importance of responsible plastic waste disposal and sustainable practices

3 **Date:** 20.06.2025 to 22.06.2025

Title: Awareness Lecture on Mission LiFE for School & College Students

TCE EIACP PC-RP actively participated in ARCHMAT 2025, a prominent event organized by the Madurai Archi Society in collaboration with The Indian Institute of Architects. The event took place in Madurai from 20th to 22nd June 2025, attracting 4500 visitors.

At our dedicated stall, we focused on raising awareness about Mission LiFE and the reuse of single-use plastics. Informative posters and pamphlets were distributed to visitors, aiming to educate them on the environmental impact of plastic pollution. Our primary objectives were to:

- Promote responsible plastic consumption and proper disposal practices
- Encourage plastic recycling
- Highlight the detrimental effects of plastic pollution on ecosystems and human health

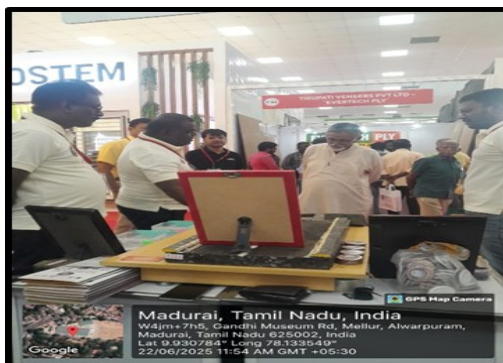
We showcased our model plastic tar road, plastone blocks, and various types of collected waste plastics, along with thematic posters to illustrate real-world applications of waste plastic reuse. This initiative made significant strides in educating a large segment of the public. Many participants left with a better understanding of the critical issue of plastic pollution and the importance of adopting sustainable lifestyle practices. Through this participation, our centre successfully contributed to the larger goal of environmental conservation and community mobilization for a cleaner future.

Number of participants : 4500

Name of Location/s where activity was carried out: Madurai Convention Centre, Tamukkam, Madurai



Awareness stall on Mission LiFE and plastic waste management during ARCHMAT 2025



Visitors engaging with exhibits on plastic tar road models, plastone blocks, and sustainable plastic reuse practices

4 **Date:** 18.06.2025

Title: Plastic Tar Road Laying Training

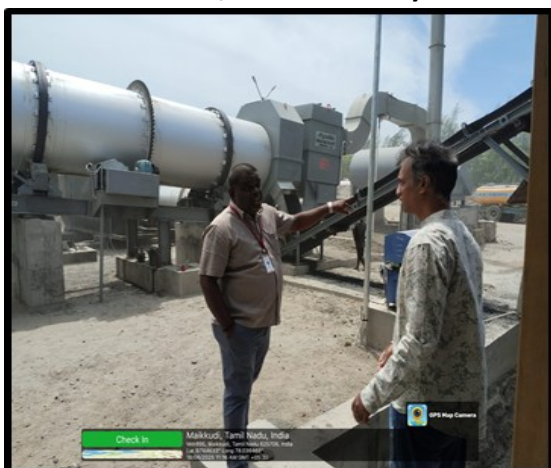
On 18 June 2025, Dr. A. Ramalinga Chandrasekar, Co-Coordinator of TCE EIACP along with Dr B Sunadara Kannan and Mr C Naveen Arasu , visited the roadwork site at Ulagani, Madurai, where a contractor was laying a plastic tar road.

At the site, TCE EIACP team provided hands-on technical guidance, demonstrating how to correctly add shredded plastic waste into the hot aggregates before adding bitumen. He explained the precise dry-process method where the shredded plastic is mixed with preheated aggregates at around 160 °C, ensuring uniform distribution and optimal bonding

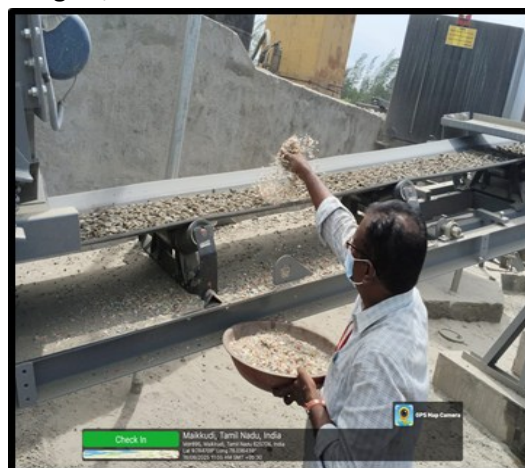
TCE EIACP team oversaw the entire integration, from adding waste plastics aggregate to ensuring the mixture met quality standards. His full technical supervision helped the contractor apply the method effectively ensuring the road would benefit from improved strength and longevity, while simultaneously reducing plastic pollution.

Number of participants : 20

Name of Location/s where activity was carried out: Ulagani, Madurai



TCE EIACP team providing on-site training for plastic tar road laying



Demonstration of the dry-process method for incorporating shredded plastic into road construction

5 **Date:** 18.08.2025,19.08.2025 & 21.08.2025 to 23.08.2025

Title: Capacity Building Programme for Sanitary Inspectors of Trichy Municipal Corporation

Inaugural Function

The Society for Community Organisation and People's Education (SCOPE), Trichy, in association with the Department of Chemistry and EIACP Programme Centre – Resource Partner (PC-RP), Thiagarajar College of Engineering (TCE), Madurai, organized a 5-day Capacity Building Training Programme for Sanitary Inspectors of Trichy Municipal Corporation on Solid Waste Handling and Effective Management. The programme was inaugurated on 18th August 2025 at Tamil Nadu Hotel, Trichy. The inaugural ceremony was graced by Thiru. Mu. Anbalagan, Hon'ble Mayor of Trichy City, and Dr. VijayaChandran, City Health Officer, Trichy Corporation, who extended their wholehearted support to this initiative.

The event also proudly featured Dr. Subburaam, Padma Shri Awardee and Founder of SCOPE, whose pioneering efforts in the field of community health and waste management have set benchmarks for sustainable practices. Alongside him, Dr. A. Ramalinga Chandra Sekar, Assistant Professor, Department of Chemistry, and Co-Coordinator of TCE EIACP PC-RP, contributed his

expertise in plastic waste management, sustainable chemistry, and environmental awareness, adding academic depth and practical insights to the programme.

From TCE, the EIACP PC-RP team members — Er. M. Chander Kumar and Mrs. Sakthi Raga Priya — actively participated in the inauguration and subsequent sessions, showcasing the institution’s commitment to advancing sustainable waste management strategies. This 5-day training programme spans across 18th, 19th, 21st, 22nd, and 23rd August 2025, and is designed to build capacity among stakeholders, civic officials, and professionals engaged in waste management. The sessions include technical workshops, case study presentations, and field insights into innovative and sustainable solid waste handling mechanisms.

The collaboration between SCOPE and TCE EIACP PC-RP signifies a strong step forward in addressing urban solid waste challenges through community awareness, scientific solutions, and policy-level discussions.

August 18, 2025 (Day 1):

On 18 August 2025, during the afternoon session of the five-day capacity-building programme, Mr. Sethumadavan (Retd., NIT Trichy) led a highly interactive and insightful group activity titled “Mapping Local Waste Issues.” In this hands-on exercise, sanitary inspectors collaborated in teams to conduct a ground-level survey of their own communities, pinpointing specific areas of concern such as unmanaged dumping sites, overflowing waste bins, inadequate segregation points, and zones lacking proper waste collection services. Armed with simple tools such as sketch maps and local insights, participants visually charted these problem spots—bringing to light both recurring patterns and structural gaps in existing waste infrastructure.

The activity not only heightened awareness of prevalent solid waste challenges but also fostered teamwork, critical observation, and analytical thinking—key competencies required in effective waste management. By visually mapping their findings, the inspectors transformed abstract data into spatial narratives, enabling them to prioritize issues more strategically and envision targeted interventions with greater clarity. This practical session marked a significant stride toward empowering the inspectors to approach local sanitation challenges with both insight and precision.

August 19, 2025 (Day 2):

Dr. M. P. Rajasekaran, retired Director of the Tamil Nadu Pollution Control Board in Tiruchirappalli, delivered an insightful and impactful presentation on the principles of source segregation, collection systems, and route planning during a recent capacity-building program. He emphasized the critical importance of segregating waste at its point of origin—commonly using a three-stream system for biodegradable, recyclable, and non-recyclable or hazardous waste—to minimize landfill burden and streamline subsequent processing. He advocated for efficient collection systems, such as vehicles with compartmentalized storage to prevent cross-contamination, coupled with route optimization strategies to reduce fuel usage and improve collection efficiency. Recognizing the pivotal role of community involvement, he underscored the need for extensive public education, awareness campaigns, and grassroots engagement, especially in settings such as low-income neighborhoods and commercial zones. Dr. Rajasekaran also noted the success of innovative models—like appointing in-house staff for bulk segregation in apartments and transforming litter-prone public areas into clean, green zones—as vital examples of scalable solutions.

Dr. David Muthuraj, Sanitary Inspector at the TCC, delivered a compelling and richly informative session on occupational hazards faced by frontline workers, emphasizing the critical importance of personal protective equipment (PPE) usage for safeguarding worker health and safety. He highlighted common occupational risks such as respiratory ailments, and skin conditions—

especially pertinent to sanitation and road maintenance teams—underscoring how these injuries not only diminish worker well-being but also impair operational efficiency. He elaborated on best practices for PPE use: the consistent wearing of masks and respirators in dust-laden environments, application of gloves and protective clothing when handling sharp or contaminated materials, and use of safety boots and eye protection where physical and chemical hazards prevail. He also stressed the value of worker training—ensuring that laborers understand when and how to use PPE—and the necessity for adequate supplies maintained by employers. Dr. Muthuraj effectively reinforced the message that safeguarding workers through proper PPE use, training, and hazard awareness is not just a regulatory obligation, but a moral imperative for sustainable workplace safety.

August 21, 2025 (Day 3):

On the forenoon of August 21, 2025, Mr. N. Gopalakrishnan—a renowned vermicompost specialist and trainer from Panickampatti in Karur district, Tamil Nadu—delivered an engaging and insightful session on composting and vermicomposting as part of a five-day capacity-building programme for sanitary inspectors; his expert presentation illuminated the transformation of organic wastes into nutrient-rich compost, highlighted the critical role of earthworms in accelerating decomposition and enriching soil, and offered step-by-step guidance on establishing and maintaining effective composting systems—focusing on moisture control, aeration, carbon-to-nitrogen balance, and microbial activity—to maximize environmental and agricultural benefits while empowering the inspectors to implement sustainable waste-management practices in their communities.

During the dynamic five-day capacity-building programme for sanitary inspectors, Mr. I. David Muthuraj, M.Sc. (Industrial Hygiene & Safety), Sanitary Inspector, TCC, delivered an enlightening and technically rich lecture on biomethanation and Bio-CNG. He elaborated on how organic waste undergoes anaerobic decomposition (biomethanation) to yield biogas—a combination of methane and carbon dioxide—which, after purification and upgrading, becomes Bio-CNG, a clean, low-carbon renewable fuel suitable for vehicles, industrial usage, and cooking. The lecture underscored the dual environmental and economic benefits: converting municipal solid waste into sustainable energy while mitigating greenhouse gas emissions and promoting circular economy principles. Participants gained valuable insights into purification methods as well as the technological challenges and infrastructure needs associated with scaling up Bio-CNG production. The session empowered sanitary inspectors with the knowledge to advocate for, implement, and monitor biomethanation initiatives—paving the way for integrating renewable fuel solutions into local waste-management and environmental health strategies.

During the afternoon session of the capacity-building programme, M. Subburaman, Director of SCOPE, delivered an engaging and insightful presentation on the complementary practices of recycling and upcycling. He began by explaining that recycling entails processing waste materials to reclaim them into raw components that can be manufactured into new items—emphasizing how this practice conserves resources and reduces environmental impact. He then contrasted this with upcycling, a more creative form of waste reuse in which discarded materials are transformed into products of greater value or utility while preserving their original form. To bring these concepts to life, he shared compelling examples—from turning waste fabric into functional bags to repurposing household items into decorative or practical products—illustrating how creativity can turn everyday trash into useful, eco-friendly solutions. By the end of the session, the sanitary inspectors had gained not only a clear understanding of these sustainable waste strategies but also inspired ideas to incorporate both recycling and upcycling into their own sanitation practices.

In the second half of the afternoon session, Mr. Karthikeyan, Sanitary Officer at TCC, delivered an insightful and engaging presentation on the treatment of hazardous and biomedical

waste, enriched with relevant case studies. Through real-world examples, he illustrated how different types of hazardous materials and biomedical refuse—from infectious medical waste to chemical residues—are safely processed and neutralized using methods such as segregation at source, secure collection, on-site treatment (like autoclaving or incineration), and controlled disposal. These structured approaches highlighted the critical importance of compliance, protective measures, and institutional responsibility in safeguarding public health and the environment. By the session's conclusion, the sanitary inspectors had acquired a deeper, practical understanding of the protocols, technologies, and strategic practices essential for the effective treatment and management of hazardous and biomedical waste.

August 22, 2025 (Day 4):

On August 22, 2025, during the forenoon session of the five-day capacity-building programme, Mr. Albert, B.Sc., Sanitary Inspector at TCC, delivered an engaging and instructive lecture that significantly deepened participants' understanding of modern solid waste management practices. He began by guiding the inspectors through the design and operation of sanitary landfills, elucidating critical aspects such as site selection, design safeguards, leachate collection systems, waste layering protocols, and daily cover techniques—all aimed at ensuring safe, efficient, and environmentally sound waste disposal. Transitioning smoothly, he addressed the sanitation challenges posed by large-scale public gatherings—notably fairs and festivals—outlining proactive strategies to maintain cleanliness and hygiene amidst high footfall, including waste segregation, deployment of temporary waste infrastructure, and rapid-response planning. He also spoke about the crucial topic of budgeting and financial planning for solid waste management, highlighting the importance of realistic capital budgeting, operational cost estimation, resource allocation, and financial accountability to support sustainable waste services. Throughout his lecture, he wove in themes of strategic foresight, adaptability, meticulous attention to detail, and financial prudence, emphasizing that these professional traits are vital for sanitary inspectors to excel—not just in routine operations, but also in managing extraordinary circumstances responsibly. By the end of the session, sanitary inspectors reported feeling empowered and well-equipped—not only with enhanced technical knowledge about landfill engineering and event-based sanitation, but also with a renewed appreciation for the financial frameworks underpinning effective solid waste management.

On 22 August, during the afternoon session of the five-day capacity-building programme, Mr. Kannan, Project Manager at PDI, Trichy, delivered a thorough and engaging lecture that significantly enhanced the participants' understanding of key policy and compliance mechanisms in waste management. He commenced with an insightful explanation of Extended Producer Responsibility (EPR), articulating how this concept enforces accountability by placing the onus of post-consumer product management onto producers, importers, and brand owners. From there, Mr. Kannan navigated the nuances of the legal frameworks underpinning EPR—clarifying regulatory provisions, the responsibilities these rules impose, and how they fit into India's broader environmental governance.

The session also addressed compliance strategies, offering practical guidance on how producers can meet statutory targets, register with relevant authorities, establish collection and recycling systems, and fulfill reporting obligations. By weaving in real-world examples and regulatory insights, Mr. Kannan empowered the sanitary inspectors with not only theoretical clarity but also actionable knowledge.

August 23, 2025 (Day 5):

On August 23, 2025 (forenoon session), Dr. A. Ramalinga Chandra Sekar, Co-Coordinator of TCE EIACP PC-RP and Assistant Professor in the Department of Chemistry, Thiagarajar College of Engineering, delivered an insightful and thought-provoking lecture. The session was organized on the final day of the five-day Capacity Building Programme for sanitary inspectors.

Dr. Chandra Sekar began his address by introducing the basics of plastics, explaining their origin, composition, and the reasons behind their extensive use. He elaborated on how plastics, owing to their versatility, durability, and cost-effectiveness, have become inseparably linked with human life. From household goods to packaging, healthcare, electronics, transportation, and infrastructure, he highlighted the wide-ranging areas where plastics have left an indelible mark on modern society.

He then shifted focus to the challenges arising from the growing menace of plastic waste. While plastics have contributed enormously to convenience and development, he cautioned that their mismanagement has resulted in serious environmental issues, including land pollution, waterlogging due to clogged drainage systems, and long-term ecological impacts because of their non-biodegradable nature.

To provide solutions, Dr. Chandra Sekar discussed innovative methods of plastic waste utilization, placing special emphasis on its use in flexible road construction. He explained how shredded waste plastics, when incorporated into bituminous roads, enhance road strength, reduce maintenance costs, and contribute to sustainable infrastructure development. He also cited examples of roads laid with this technology that have shown remarkable resistance to rutting, water damage, and heavy vehicular loads.

Additionally, he outlined various strategies for effective plastic waste management, underscoring the importance of segregation at source, recycling, and public participation. He emphasized the crucial role of sanitary inspectors, not only in enforcing regulations but also in creating awareness, guiding communities, and ensuring cleaner surroundings. By effectively engaging with the public and promoting innovative practices, sanitary inspectors act as key agents in building a cleaner and greener environment.

Valedictory Function

On the afternoon of 23 August, the valedictory ceremony marking the conclusion of the five-day capacity-building programme was held in a spirit of pride and accomplishment. The event was graced by esteemed dignitaries, including Mrs. G. Dhivya, Deputy Mayor of Thiruchirapalli; Mr. S. N. Shanmugam, Assistant Commissioner of the Ponamalai Zone within the Trichy City Corporation; Mr. M. Subburaman, Founder of SCOPE; and Dr. A. Ramalinga Chandrasekar, Assistant Professor in the Department of Chemistry at TCE and Co-Coordinator of TCE EIACP PC-RP.

The 5-day Capacity Building Programme for Sanitary Inspectors concluded successfully, marking the completion of a highly impactful training initiative. Throughout the Programme, the sanitary inspectors gained immense knowledge on various dimensions of waste management, ranging from effective segregation and disposal to sustainable reuse practices. The sessions also emphasized how maintaining cleanliness in the city or zone not only improves public health and hygiene but also plays a pivotal role in propelling the city towards growth and progress.

Number of participants : 20

Name of Location/s where activity was carried out: Society for Community Organisation and People's Education (SCOPE), Trichy.



Inauguration and expert sessions during the Capacity Building Programme for Sanitary Inspectors at SCOPE

Participants engaging in training activities and interactive sessions on solid waste management practices

6 **Date:** 23.08.2025

Title: Awareness Seminar- Awareness Seminar on “Plastic Waste Management”

On August 23, 2025, Dr. R. Vasudevan, Coordinator of TCE EIACP PC-RP and Professor in the Department of Chemistry, Thiagarajar College of Engineering, Madurai, was invited as a distinguished speaker at the TEDx Youth event organized by RJ Mantra English School, Virudhunagar.

Dr. Vasudevan, widely known as the “Plastic Man of India,” delivered an enlightening and thought-provoking lecture on plastic waste management. In his address, he highlighted the increasing challenges posed by plastic pollution and emphasized the importance of responsible

disposal, recycling, and reuse of plastics. He explained how plastic, when scientifically managed, can be transformed from a pollutant into a valuable resource.

He also shared insights from his pioneering research on the use of waste plastics in road construction, which has gained national and international recognition as a sustainable solution to both waste management and infrastructure development. His speech inspired the students to view plastics not merely as waste but as a potential resource for innovation and sustainability.

The session witnessed the active participation of around 100 students, who were deeply engaged and motivated by the presentation. They gained valuable awareness about the role of youth in tackling environmental challenges, the importance of making eco-friendly choices in daily life, and how innovative thinking can contribute to building a cleaner and greener future.

Through this event, Dr. Vasudevan once again emphasized the need for collective responsibility in managing plastic waste and urged the younger generation to take part in sustainable initiatives that can make a long-term impact on society.

Number of participants :100

Name of Location/s where activity was carried out: RJ Mantra English School, Virudhunagar



Dr. R. Vasudevan delivering an awareness seminar on plastic waste management at TEDx Youth event



Students actively participating and engaging in the seminar on sustainable plastic waste management practices

7 **Date:** 26.09.2025

Title: Awareness Lecture on "Air Pollution"

On the occasion of Seva Parv 2025, An awareness lecture on "Air Pollution" was organized for school students at Municipal primary school, Mettu street, Woraiyur, Trichy District, TamilNadu on 26.09.2025. A total of 50 students were actively participated in the awareness lecture.

The main objective of the program was to create awareness among young children about the importance of clean air and the harmful effects of air pollution. During the session, students were introduced to the concept of air pollution in simple terms. They learned about the causes of air pollution, such as smoke from vehicles, burning of waste, and deforestation. The effects of polluted air on human health, animals, and plants were explained with easy examples that the children could understand. The session helped the young audience understand the importance of protecting the environment and encouraged them to become "Clean Air Champions" in their schools and homes.

Number of Participants : 50

Name of Location/s where activity was carried out: Municipal primary school, Mettu street, Woraiyur, Trichy District.



Awareness lecture on air pollution conducted for school students at Municipal Primary School



Students actively participating and learning about causes and effects of air pollution

8 **Date:** 26.09.2025

Title: Awareness Lecture on “Role of Women in Combating Air Pollution”

On the occasion of seva parv 2025, An awareness lecture on “Role of Women in Combating Air Pollution” was organized for “Women Self Help Group” at Municipal primary school, Mettu street, Woraiyur, Trichy District, Tamilnadu on 26.09.2025. A total of 50 participants were actively participated in the awareness lecture. The session aimed to educate Women Self Help Group about the causes, effects, and preventive measures related to air pollution. Common sources such as vehicle emissions, industrial activities, burning of waste, use of firecrackers, and deforestation were discussed. The lecture explained how polluted air affects lungs, causes allergies, reduces visibility, and contributes to climate change. Women Self Help Group were encouraged to adopt eco-friendly practices such as planting trees, reducing vehicle use, avoiding waste burning, and promoting clean energy. The session successfully enhanced the Women Self Help Group, understanding of air pollution and inspired them to act as young environmental stewards.

Number of Participants : 50

Name of Location/s where activity was carried out: Municipal primary school, Mettu Street, Woraiyur, Trichy District.



Awareness lecture on the role of women in combating air pollution conducted for Women Self Help Group



Participants engaging in the session and learning about preventive measures for air pollution

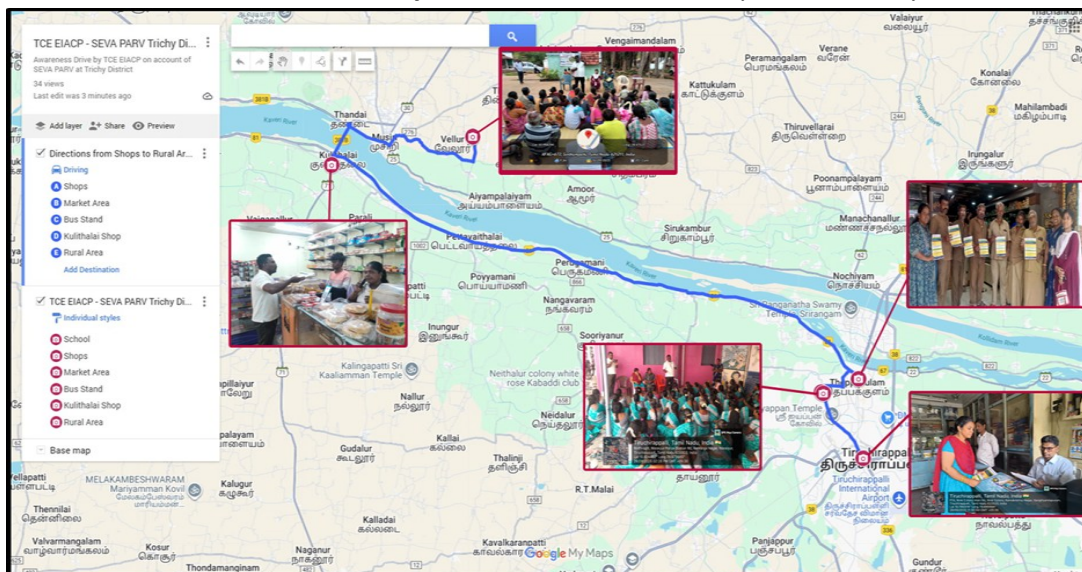
9 **Date:** 26.09.2025

Title: Pamphlets Distribution at Trichy District

In continuation of Seva Parv 2025 activities, pamphlets were distributed on 26.09.2025 at various places in Trichy district including, Woraiyur Market, Municipal Corporation School, Chathiram Bus Stand, NMK Colony, Kulithalai, Velloor and Musiri Taluk. A total of 600 pamphlets were distributed among in the public. The pamphlet highlighting the significance of Air pollution, its effects, precaution measurement the importance of social responsibility were distributed to the public. The initiative helped create awareness and encouraged community participation.

Number of participants : 600

Name of Location/s where activity was carried out: Various places in Trichy District



Community interaction promoting precautionary measures and social responsibility for reducing air pollution

Distribution of awareness pamphlets on air pollution to the public at various locations across Trichy District.

10 **Date:** 26.09.2025

Title: Awareness Lecture on “The Role of Villages in Ensuring Cleaner Air”

An awareness lecture on the topic “The Role of Villages in Ensuring Cleaner Air” was organized as part of Seva Parv 2025 activities at Musiri Taluk, Trichy District. The session aimed to educate and motivate rural communities to take active steps in protecting air quality and promoting a cleaner, healthier environment.

During the lecture, the importance of clean air for health, agriculture, and overall community well-being was highlighted. The causes of air pollution in rural areas, such as burning agricultural waste, use of firewood, vehicle emissions, and open burning of plastics, were discussed in simple terms. The lecture emphasized that villages play a key role in maintaining ecological balance through sustainable practices.

Dr. A. Ramalinga Chandrasekar and Dr. R. Kiruthiga encouraged villagers to adopt eco-friendly habits such as planting more trees, using clean fuels for cooking, avoiding waste burning, and promoting organic farming. The importance of collective community action and awareness in reducing air pollution was also stressed.

The villagers showed keen interest and actively participated in the discussion, sharing their local experiences and ideas for improving air quality. The session concluded with a pledge from the participants to work together for a cleaner and greener village environment.

Number of participants : 50

Name of Location/s where activity was carried out: Musiri Taluk, Trichy District



Awareness lecture on the role of villages in ensuring cleaner air



Villagers actively participating and taking a pledge to promote eco-friendly practices

11 **Date:** 30.09.2025

Title: Awareness Lecture “Mitigation of Air Pollution”

In continuation of Seva Parv 2025, an awareness lecture on the theme “Mitigation of Air Pollution” was conducted at V.O.C College of Engineering, Anna University Campus, Tuticorin on 30.09.2025. The lecture was delivered by Dr. A. Ramalinga Chandrasekar (Co-coordinator) and. The total of 100 NSS students and 5 staff members were participated. This lecture was arranged by NSS cell of Anna University.

The lecture covered the major sources of air pollution such as vehicle emissions, industrial activities, waste burning, and fossil fuel usage. The lecture highlighted the serious health impacts of polluted air, including respiratory problems, asthma, allergies, lung infections, and long-term

complications. Environmental consequences such as acid rain, climate change, crop damage, and biodiversity loss were also discussed. Preventive measures like planting trees, minimizing vehicle usage, avoiding waste burning, adopting clean energy practices, and creating awareness among the community were emphasized.

Number of Participants : 105

Name of Location/s where activity was carried out: V.O.C College, Tuticorin District



Awareness lecture on mitigation of air pollution



Participants engaging in the session and taking pledge

12 **Date:** 30.09.2025

Title: Pamphlet Distribution @ Tuticorin District

In addition to the lecture, pamphlets were distributed to the public to further spread the message of air pollution control and environmental responsibility in the continuation of Seva Parv activities at Tuticorin District.

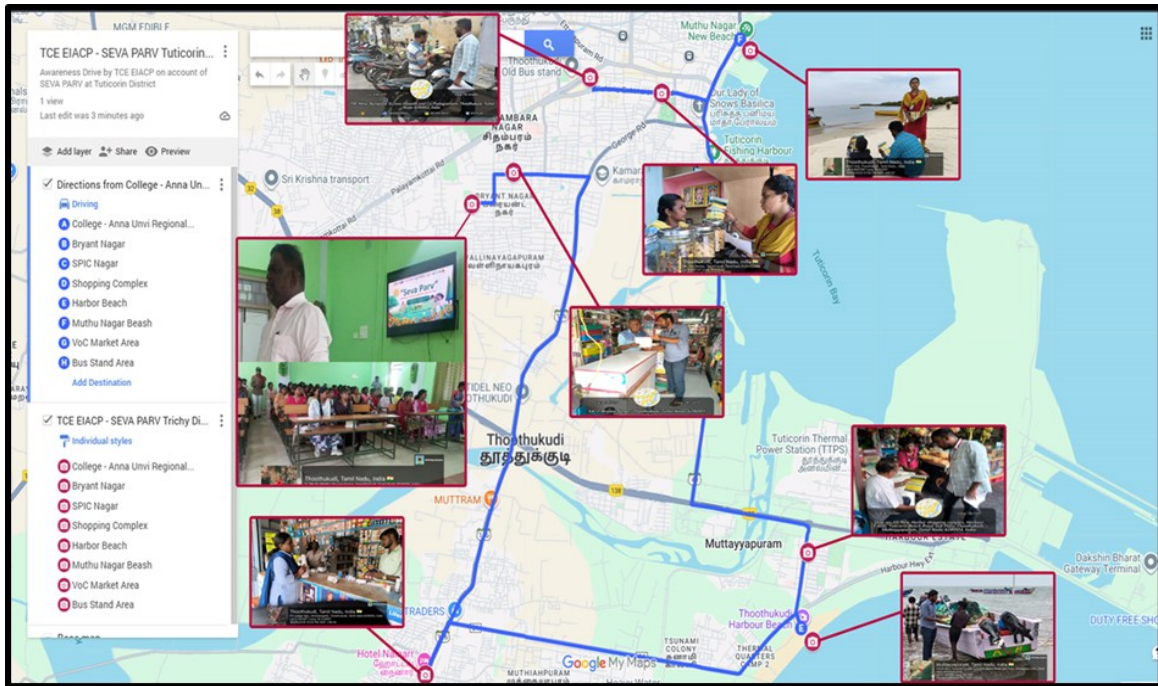
The pamphlets provided information on the causes and effects of air pollution along with practical steps individuals can follow to reduce pollution in their surroundings. This outreach ensured that awareness reached both participants and the wider community (600 Participants).

The covered places are Bryant Nagar, SPIC Nagar, Harbour Shopping Centre, Thoothukudi Harbour Beach, Muthu Nagar New Beach, VOC Market Area and Old Bus stand.

The Seva Parv 2025 celebration in Tuticorin district proved impactful by sensitizing the public, encouraging sustainable practices, and promoting collective responsibility towards the environment.

Number of Participants : 600

Name of Location/s where activity was carried out: Various Places in Tuticorin District



Distribution of awareness pamphlets on air pollution control at various locations across Tuticorin District.

Public interaction promoting environmental responsibility and sustainable practices

13 **Date:** 25.10.2025

Title: Awareness Lecture on Plastic Waste Management

On October 25, 2025, TCE EIACP team conducted an awareness lecture on Plastic Waste Management at SSSN Matriculation Higher Secondary School, Virudhunagar District. The programme was attended by 35 students and 5 teachers, who actively participated in the interactive session. Mr. M. Chander Kumar, Information Officer, TCE EIACP, delivered an enlightening lecture emphasizing the importance of responsible plastic waste disposal, recycling, and sustainable lifestyle practices. This initiative holds special significance as Virudhunagar District is recognized as one of the Aspirational Districts under the Government of India's Aspirational Districts Programme, which aims to transform underdeveloped regions through focused interventions in health, education, agriculture, and basic infrastructure. Conducting such awareness programmes in aspirational districts plays a crucial role in building environmental consciousness and empowering communities with knowledge for sustainable living. The event also aligned with the Government of India's Mission LiFE (Lifestyle for Environment) initiative, promoting behavioral change towards eco-friendly living. As part of the programme, students took the Mission LiFE Pledge, reaffirming their commitment to protect the environment and work towards a cleaner, greener, and sustainable future.

The event also aligned with the Government of India's Mission LiFE (Lifestyle for Environment) initiative, promoting behavioral change towards eco-friendly living. As part of the programme, students took the Mission LiFE Pledge, reaffirming their commitment to protect the environment and work towards a cleaner, greener, and sustainable future.

Number of Participants : 40

Name of Location/s where activity was carried out: SSSN GHSS,
Virudhunagar District.



Awareness lecture on plastic waste management



Students and teachers participating in the session and taking the Mission LiFE pledge

14 **Date:** 25.10.2025

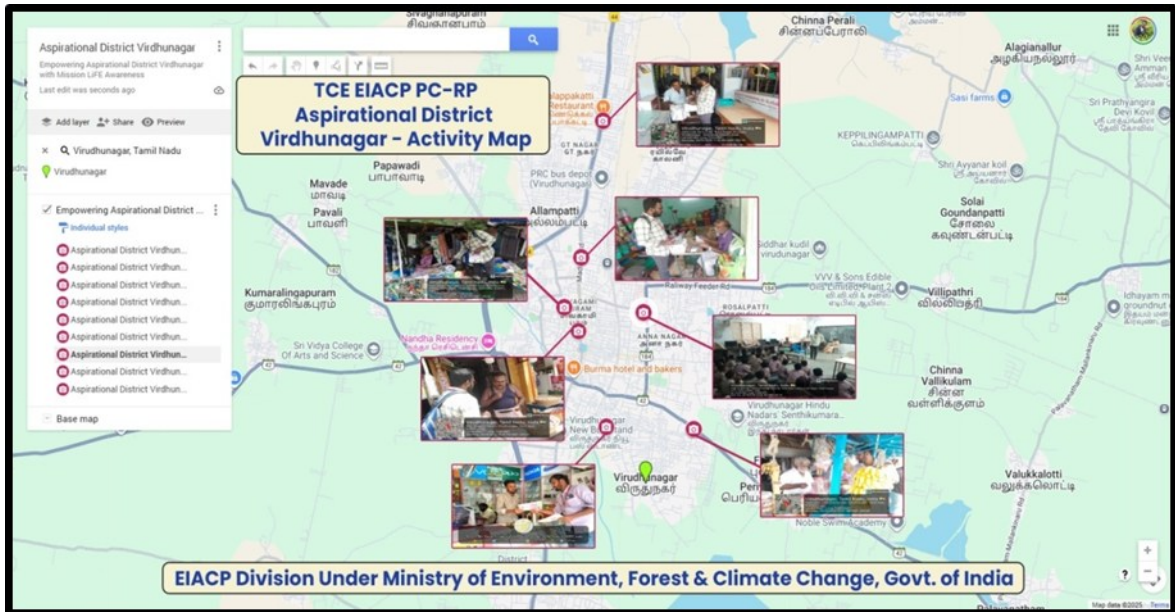
Title: Pamphlet Distribution

On October 25, 2025, TCE EIACP team conducted an extensive awareness campaign across Virudhunagar District, Tamil Nadu, aimed at sensitizing the public on the importance of plastic waste management. As part of the initiative, the team distributed informative pamphlets containing key messages on proper waste segregation, recycling practices, and the promotion of sustainable lifestyles. This activity was organized in alignment with the Government of India's Mission LiFE

(Lifestyle for Environment) initiative, which encourages individuals and communities to adopt environmentally responsible behavior in their daily lives. A total of 150 pamphlets were distributed to commercial establishments, school students, and the general public across nine key locations in Virudhunagar District including NGO Nagar, Sivakamipuram, Market Area, Hanuman Nagar, Alampatti, Kamaraj Bypass Road, Government Medical College, SSSN Government Higher Secondary School, Bus Stand. The campaign effectively reached a diverse section of society, fostering greater awareness and participation in plastic waste reduction and sustainable environmental practices.

Number of Participants : 150

Name of Location/s where activity was carried out: SSSN GHSS, Virudhunagar District.



Distribution of awareness pamphlets on plastic waste management to the public at various locations in Virudhunagar District



Community interaction promoting waste segregation, recycling practices, and sustainable lifestyles during the awareness campaign

15 **Date:** 22.12.2025

Title: Distribution of Pamphlets at Maatuthaavani Vegetable Market, Madurai

On 22.12.2025, TCE EIACP PC-RP team conducted an awareness activity by distributing pamphlets at the Maatuthaavani Vegetable Market, Madurai to educate vendors and the general public on plastic waste reduction and proper plastic waste management practices. The pamphlets highlighted key messages such as minimizing single-use plastics, adopting reusable alternatives, segregation of plastic waste at source, and the environmental impacts of improper plastic disposal. The activity witnessed active participation of 100 people from market vendors, shoppers, and passersby, who showed interest in understanding practical methods for reducing plastic usage in daily life. Through direct interaction and explanation, the team emphasized the importance of responsible plastic consumption and disposal to reduce environmental pollution. This initiative contributed to raising public awareness and encouraging sustainable waste management practices at the community level.

Number of Participants : 100

Name of Location/s where activity was carried out: Maatuthaavani Vegetable Market, Madurai



Distribution of awareness pamphlets on plastic waste reduction to vendors and public at Maatuthaavani Vegetable Market



Interaction with vendors and shoppers highlighting sustainable practices and proper plastic waste management

16 **Date:** 29.01.2026

Title: Distribution of Handouts at Dindigul Science, Technology and Startup Innovation Festival 2026

Science, Technology and Startup Innovation Festival 2026 was conducted from 28th January to 3rd February 2026 at Dindigul District, Tamilnadu. In alignment with Mission LIFE (Lifestyle for Environment) and the United Nations Sustainable Development Goals (SDGs), TCE EIACP PC-RP Centre implemented a series of structured awareness and outreach activities aimed at encouraging responsible environmental behaviour. The materials provided practical, easy-to-adopt actions that individuals could incorporate into their daily lives, thereby promoting long-term behavioral change. Through these initiatives, the Centre successfully reinforced eco-friendly attitudes among students, educators, and members of the general public, fostering greater awareness and commitment towards sustainability and environmental protection.

Number of Participants : 5000

Name of Location/s where activity was carried out: MSP Auditorium, Dindigul District.



Distribution of informative handouts on sustainable lifestyles and plastic waste reduction



Visitors engaging with awareness materials promoting Mission LiFE and sustainable environmental practices

17 **Date:** 28.01.2026 to 03.02.2026

Title: Stall at Dindigul Science, Technology and Startup Innovation Festival 2026

Science, Technology and Startup Innovation Festival 2026 was conducted from 28th January to 3rd February 2026 at Dindigul District, Tamilnadu, with the objective of fostering scientific temper, innovation, and sustainability awareness among students, educators, innovators, and the general public. The festival served as a major platform for showcasing emerging technologies, student innovations, and sustainable solutions, drawing participation from educational institutions, research centres, startups, and government agencies.

TCE EIACP Centre actively participated in the festival by establishing an exhibition stall focused on environmental sustainability, plastic waste management, and Mission LiFE (Lifestyle for Environment). The stall attracted significant attention due to its practical demonstrations, interactive engagement activities, and strong alignment with national and global sustainability goals. The Centre showcased innovative technologies developed using waste plastic, including a Plastic Tar Road Model, which demonstrated the effective utilization of waste plastic in road construction to enhance durability, cost efficiency, and environmental benefits. Additionally, Plastone Blocks manufactured using waste plastics were exhibited, highlighting circular economy principles and sustainable construction practices. These exhibits effectively communicated the concept of converting waste into valuable resources and encouraged responsible waste management.

Number of Participants :65000

Name of Location/s where activity was carried out: MSP Auditorium, Dindigul District



TCE EIACP exhibition stall showcasing plastic tar road model and plastone blocks



Visitors engaging with interactive exhibits and learning about sustainable plastic waste management practices

18 **Date:** 30.01.2026

Title: Scan & Play Challenge and LiFE Pledge

Science, Technology and Startup Innovation Festival 2026 was conducted from 28th January to 3rd February 2026 at Dindigul District, Tamilnadu. A major highlight of the EIACP stall was the innovative QR Code-based “Scan & Play Challenge”, designed to actively engage visitors. Through this initiative, visitors scanned the displayed QR code and participated in interactive environmental quizzes and awareness activities. They were also encouraged to take the LiFE Pledge, committing themselves to adopt environmentally responsible practices in daily life. This digital engagement approach successfully transformed general expo footfall into measurable, verified sustainability actions aligned with Mission LiFE and SDGs.

The response to the Scan & Play Challenge was highly encouraging. Over 1500 visitors participated in the environmental quiz, while 1800 visitors took the LiFE pledge using the QR code. Overall, the initiative resulted in 1800 verified data-centric sustainability actions, demonstrating effective public participation and behavioral engagement. To motivate participants, Eco Awareness Winner Certificates were issued to all participants, and cash prizes were awarded to the top three performers, which significantly increased enthusiasm and participation. The participation of the TCE EIACP Centre in the festival resulted in multiple positive outcomes, including enhanced public awareness on plastic waste management and sustainable construction technologies, strengthened promotion of Mission LiFE and SDGs, and successful use of digital tools for environmental outreach. The initiative also increased the visibility of EIACP activities among students, educators, and the general public, reinforcing the Centre’s role in environmental education and sustainability advocacy.

Number of Participants :3300

Name of Location/s where activity was carried out: MSP Auditorium, Dindigul District.



Visitors participating in the QR code-based “Scan & Play Challenge



Participants engaging in digital environmental awareness activities

19 **Date:** 11.02.2026

Title: Pamphlets Distribution

As part of the activity, informative pamphlets were distributed among school students, teachers, and local residents. The pamphlets further emphasized practical steps for reducing plastic waste, including the use of reusable cloth bags, proper waste segregation at source, recycling practices, and responsible disposal of plastic materials. The information also encouraged individuals to adopt environmentally friendly alternatives and participate in community efforts to reduce plastic pollution. Students and NSS volunteers actively participated in distributing the pamphlets during the

rally and awareness interactions with the local community. They also explained the key messages mentioned in the pamphlets, which helped the public better understand the importance of plastic reduction and sustainable waste management practices.

The activity received positive responses from both students and community members. Many participants showed interest in learning about eco-friendly practices and expressed their willingness to reduce the use of single-use plastics in their daily lives. Overall, the pamphlet distribution activity served as an effective communication tool to spread environmental awareness and educate the community about plastic waste management and the importance of reducing single-use plastics for a cleaner and sustainable environment.

Number of Participants : 150

Name of Location/s where activity was carried out: Thangalacheri Village, Madurai



Distribution of awareness pamphlets on plastic waste reduction to students and local residents



Interacting with the community and promoting sustainable plastic waste management practices

20 **Date:** 02.02.2026

Title: Distribution of Handouts at Dindigul Science, Technology and Startup Innovation Festival 2026

Science, Technology and Startup Innovation Festival 2026 was conducted from 28th January to 3rd February 2026 at Dindigul District, Tamilnadu. In alignment with Mission LiFE (Lifestyle for Environment) and the United Nations Sustainable Development Goals (SDGs), TCE EIACP PC-RP Centre implemented a series of structured awareness and outreach activities aimed at encouraging responsible environmental behaviour. The materials provided practical, easy-to-adopt actions that individuals could incorporate into their daily lives, thereby promoting long-term behavioral change. Through these initiatives, the Centre successfully reinforced eco-friendly attitudes among students, educators, and members of the general public, fostering greater awareness and commitment towards sustainability and environmental protection.

Number of Participants : 5000

Name of Location/s where activity was carried out: MSP Auditorium, Dindigul District.



Distribution of informative handouts on sustainable lifestyles and plastic waste reduction



Visitors engaging with awareness materials promoting Mission LiFE and environmental conservation

21 **Date:** 11.02.2026

Title: Awareness Lecture on Reduction of Single Use Plastics

An awareness lecture on the reduction of single-use plastics and plastic waste management was delivered to school students as a part of One Day NSS Camp at Panchayat Union Middle School, Thangalacheri, Madurai on 11 Feb 2026.

The session aimed to educate students about the harmful environmental impacts of single-use plastics, including soil and water pollution, harm to wildlife, and long-term ecological damage. The lecture emphasized the importance of reducing plastic consumption through simple daily practices such as avoiding plastic carry bags, using reusable alternatives, segregating waste at source, and supporting recycling initiatives. Students were also informed about proper plastic waste management methods, including collection, segregation, recycling, and safe disposal practices. Interactive discussions and practical examples were used to help students understand their role in minimizing plastic pollution. The session successfully enhanced awareness among students and encouraged them to adopt environmentally responsible habits in their daily lives.

Number of Participants : 100

Name of Location/s where activity was carried out: Panchayat Union Middle School, Thangalacheri, Madurai.



Awareness lecture on reduction of single-use plastics delivered to school students



Interactive session and discussion with students on plastic waste management

22 **Date:** 01.02.2026

Title: Stall at Dindigul Science, Technology and Startup Innovation Festival 2026

Science, Technology and Startup Innovation Festival 2026 was conducted from 28th January to 3rd February 2026 at Dindigul District, Tamilnadu, with the objective of fostering scientific temper, innovation, and sustainability awareness among students, educators, innovators, and the general public. The festival served as a major platform for showcasing emerging technologies, student innovations, and sustainable solutions, drawing participation from educational institutions, research centres, startups, and government agencies.

TCE EIACP Centre actively participated in the festival by establishing an exhibition stall focused on environmental sustainability, plastic waste management, and Mission LiFE (Lifestyle for Environment). The stall attracted significant attention due to its practical demonstrations, interactive engagement activities, and strong alignment with national and global sustainability goals. The Centre showcased innovative technologies developed using waste plastic, including a Plastic Tar Road Model, which demonstrated the effective utilization of waste plastic in road construction to enhance durability, cost efficiency, and environmental benefits. Additionally, Plastone Blocks manufactured using waste plastics were exhibited, highlighting circular economy principles and sustainable construction practices. These exhibits effectively communicated the concept of converting waste into valuable resources and encouraged responsible waste management.

Number of Participants :35000

Name of Location/s where activity was carried out: MSP Auditorium, Dindigul District.



TCE EIACP Centre exhibition stall showcasing environmental sustainability, plastic waste management, and Mission LiFE activities



Display of Plastic Tar Road Model and Plastone Blocks made from waste plastics demonstrating circular economy and sustainable construction practices

23 **Date:** 11.02.2026

Title: Awareness Rally

An Awareness Rally was organized by TCE EIACP PC-RP at Thangalaacheri village on 11 Feb 2026, with the National Service Scheme (NSS) team of TCE. The rally focused on the theme “Reduction of Single-Use Plastics and Plastic Waste Management.” Around 50 students from the Panchayat Union School actively participated in the rally along with 100 NSS volunteers and faculty coordinators. Students enthusiastically carried placards, banners, and awareness slogans highlighting key environmental messages such as reducing plastic consumption, adopting eco-friendly alternatives, maintaining clean surroundings, and protecting natural resources.

Local residents showed great interest and appreciation for the initiative taken by the students and the organizing team. The rally served as an effective medium to communicate the message of plastic reduction and environmental conservation to the wider community. It also encouraged villagers to rethink their plastic consumption habits and adopt sustainable lifestyle practices. The enthusiastic participation of students demonstrated their growing awareness and concern for environmental issues. The rally not only educated the participants about plastic waste management but also instilled a sense of environmental responsibility and community engagement among the young students. Overall, the Environmental Awareness Rally was a successful initiative that effectively conveyed the message of reducing single-use plastics, promoting sustainable waste management practices, and protecting the environment. The activity played a significant role in motivating both students and the local community to contribute towards building a cleaner and greener future. The programme commenced with an environmental awareness rally involving school students. The rally focused on the theme “Reduction of Single-Use Plastics and Plastic Waste Management.” Students carried placards and raised slogans highlighting the harmful effects of plastic pollution and the importance of reducing single-use plastics. The rally also helped spread environmental awareness among the local community.

Number of Participants : 150

Name of Location/s where activity was carried out: Thangalacheri Village, Madurai



Awareness rally on “Reduction of Single-Use Plastics and Plastic Waste Management”



Students and NSS volunteers carrying placards and slogans to promote plastic reduction and environmental conservation

7. Tree Plantation “Ek Ped Maa Ke Naam Campaign” - Details

1 **Date:** 22.04.2025

Title: "Ek Ped Maa Ke Naam" Campaign

In celebration of Earth Day and as part of the "Ek Ped Maa Ke Naam" campaign, TCE EIACP PC-RP organized a plantation drive on April 22, 2025, at the TCE campus. The event aimed to foster environmental awareness and instill a sense of responsibility towards nature among the younger generation.

A total of 15 school students from various schools, along with 5 dedicated staff members, actively participated in the event. Together, they planted five different varieties of saplings, each carefully chosen to enhance biodiversity and contribute to a healthier ecosystem. The plantation drive served as a meaningful step towards nurturing a greener and cleaner environment. It also underscored TCE EIACP’s ongoing commitment to environmental stewardship and sustainable

development. Through such initiatives, the center continues to inspire and engage the community, particularly the youth, in building a more resilient and eco-friendly future. The enthusiastic involvement of the students and staff made the event a great success, reinforcing the belief that small collective actions can lead to significant positive changes for the planet.

Number of participants : 20

Name of Location/s where activity was carried out: TCE EIACP



Plantation drive under the “Ek Ped Maa Ke Naam”



School students and staff planting saplings during the Earth Day celebration

2 **Date:** 04.06.2025

Title: "Ek Ped Maa Ke Naam" Campaign

As part of the World Environment Day 2025 celebrations, TCE EIACP organized a plantation drive on June 4th, 2025, within the Architecture Block of the Thiagarajar College of Engineering campus. The initiative focused on promoting ecological sustainability and enhancing green cover in the institution.

During the event, 10 different varieties of saplings—including ornamental, shade-providing, and native species—were carefully planted by enthusiastic participants. The drive witnessed active involvement from around 30 students and faculty members, who came together with a shared commitment to environmental conservation.

Number of participants :30

Name of Location/s where activity was carried out: TCE



Plantation drive under the “Ek Ped Maa Ke Naam” campaign



Students and faculty members planting diverse saplings

3 **Date:** 28.07.2025

Title: "Ek Ped Maa Ke Naam" Campaign

On the occasion of World Nature Conservation Day, TCE EIACP PC-RP organized a tree plantation drive at SSV Sala Matric Higher Secondary School in Aatukulam, Melur, Madurai. The event saw enthusiastic participation from approximately 30 students and 7 staff members, who collectively planted 20 different varieties of tree saplings.

During the event, Staffs of TCE EIACP highlighted the vital role trees play in maintaining ecological balance, improving air quality, and supporting biodiversity. They emphasized that such initiatives are crucial steps toward fostering a cleaner and greener future.

This collaborative effort not only contributed to enhancing the green cover of the school campus but also served as an educational experience, instilling environmental awareness and responsibility among the students.

Number of participants : 37

Name of Location/s where activity was carried out: Aatukulam, Melur, Madurai



Ek Ped Maa Ke Naam” plantation drive organized by TCE EIACP PC-RP



Students and staff planting multiple tree saplings

4 **Date:** 14.08.2025

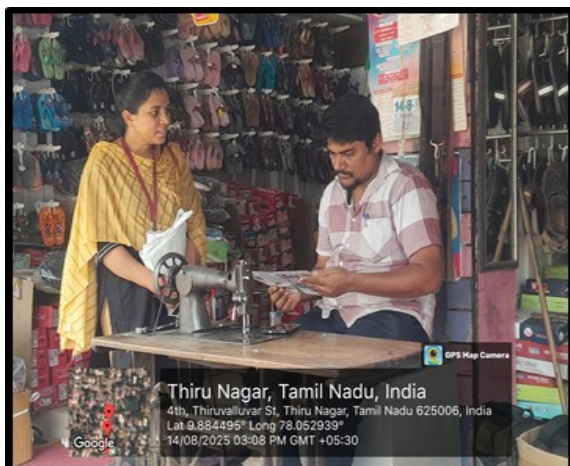
Title: Awareness pamphlet Distribution

On August 14, 2025, members of the TCE EIACP PC-RP team from Thiagarajar College of Engineering conducted a plastic waste management awareness campaign in Thirunagar, Madurai. The initiative primarily targeted commercial establishments, which are significant contributors to single-use plastic consumption. Team members distributed informative pamphlets to approximately 80 shops, educating proprietors and staff on proper disposal methods for plastic waste and emphasizing the environmental hazards associated with improper plastic disposal. The campaign reached around 100 individuals, including shopkeepers and members of the public, fostering greater awareness and encouraging sustainable practices within the community.

This outreach aligns with TCE EIACP PC-RP's broader mission to promote sustainable environmental practices and reduce plastic pollution through education and community engagement.

Number of participants : 100

Name of Location/s where activity was carried out: Thirunagar, Madurai



Plastic waste management awareness campaign conducted by TCE EIACP PC-RP through pamphlet distribution to commercial establishments



Interaction with shopkeepers during awareness pamphlet distribution

5 **Date:** 26.09.2025

Title: Ek Ped Maa ke Naam (Seva Parv 2025)

In celebration of Seva Parv 2025, Tree plantation drive was conducted at Musiri Taluk in the Trichy District, Tamilnadu on 26.09.2025. To promote environmental conservation and instill a sense of responsibility towards nature among participants. Participants actively planted 10 saplings in the designated area. Different varieties of native and eco-friendly species were selected to support local biodiversity. Brief guidance was given on the long-term benefits of trees, such as improving air quality, conserving soil, reducing carbon emissions, and supporting wildlife. The plantation drive helped spread awareness about environmental stewardship and encouraged 20 participants to contribute actively to a greener future. The initiative also served as a reminder of the vital role trees play in sustaining life on Earth.

Number of Participants : 20

Name of Location/s where activity was carried out: Musiri Taluk in the Trichy District



Tree plantation drive under “Ek Ped Maa ke Naam” (Seva Parv 2025)



Participants planting native and eco-friendly saplings

6 **Date:** 29.09.2025

Title: Ek Ped Maa ke Naam (Seva Parv 2025)

In continuation of Seva Parv 2025, the TCE EIACP organized the “Ek Ped Maa Ke Naam” (One Tree for Mother) tree plantation campaign on 29th September 2025 at Thiagarajar College of Engineering, Madurai, with the aim of promoting environmental conservation and expressing gratitude to Mother Earth. During the campaign, 20 saplings from four different native species were planted across the campus, symbolizing the collective commitment to sustainability and ecological balance. The event witnessed the enthusiastic participation of around 20 students and 15 staff members, who actively contributed to enhancing the campus green cover.

Number of Participants : 35

Name of Location/s where activity was carried out: TCE Campus



Ek Ped Maa Ke Naam” tree plantation campaign under Seva Parv 2025

Students and staff planting native saplings across the TCE campus

7 **Date:** 24.10.2025

Title: EkPedMaakeNaam (Internal Day of Climate Action 2025)

As part of International Day of Climate Action 2025, TCE EIACP organized the “Ek Ped Maa Ke Naam” (One Tree for Mother) tree plantation campaign on 24th October 2025 at Kendriya Vidyalaya (No.2), Tiruparankundram, Madurai, with the aim of the tree plantation at the school campus is to promote environmental awareness among students and to create a green and healthy learning environment. The event witnessed the passionate participation of 16 students and 2 staff members. The activity encourages students to understand the importance of trees in maintaining ecological balance, improving air quality, providing shade, and supporting biodiversity. It also aims to instill a sense of responsibility and care for nature among young learners, motivating them to contribute actively to environmental protection and sustainable living. During the campaign, 5 saplings from two different native species were planted in the school campus.

Number of Participants : 18

Name of Location/s where activity was carried out: Kendriya Vidyalaya (No. 2), Tiruparankundram, Madurai



Ek Ped Maa Ke Naam” tree plantation campaign under International Day of Climate Action 2025



Students and staff planting native saplings in the school campus

8 **Date:** 11.02.2025

Title: “EkPedMaakeNaam”

TCE EIACP PC-RP organized a Tree Plantation Drive on 11th February 2026 at Thangalacheri village, Thirumangalam. As part of its ongoing environmental awareness and sustainability initiatives. The programme was conducted with the objective of promoting ecological responsibility, increasing green cover, and encouraging young minds to actively participate in environmental conservation. The event witnessed enthusiastic participation 20 NSS volunteers, who actively engaged in planting activities and interacted with faculty coordinators to understand the importance of afforestation. A total of 10 saplings were planted in the campus premises. During the programme, participants were briefed on the significance of trees in maintaining ecological balance, enhancing biodiversity, reducing carbon footprint, preventing soil erosion, and improving air quality. The importance of nurturing and protecting the planted saplings for sustainable growth was also emphasized. The Tree Plantation Drive not only contributed to the enhancement of green cover but also instilled a sense of environmental responsibility among students. The initiative reflects TCE EIACP PC-RP’s continued commitment towards promoting sustainable practices and supporting Mission LiFE principles for a greener and healthier future.

Number of Participants : 20

Name of Location/s where activity was carried out: Thangalacheri Village, Madurai



“Ek Ped Maa Ke Naam” organized by TCE EIACP PC-RP



NSS volunteers planting saplings during the plantation activity

8. Tree Sapling Distribution - Details

1 **Date:** 26.09.2025

Title: Sapling Distribution

In continuation of Seva Parv 2025 activities, To further promote green practices, saplings were distributed to children and village people of Musiri Taluk in Trichy District on 26.09.2025. In sapling distribution event, 50 saplings were given to individuals and families for them to plant and nurture at their homes. People were encouraged to take responsibility for nurturing the saplings and contribute to the green initiative in their own way. The initiative aimed to inspire individuals to plant and nurture trees in their surroundings. The session emphasized the role of individuals in contributing to society through small yet impactful actions.

Number of participants : 30

Name of Location/s where activity was carried out: Musiri Taluk, Trichy District



Sapling distribution programme under Seva Parv 2025



Distribution of saplings to children and villagers encouraging plantation

17. Knowledge Products:

- Analytical reports published for the respective State/UTs: **NA**
- Analytical reports published based on the assigned themes: **NA**
- Distribution network of reports: **Nil**
- Development of mobile apps: **Nil**
- Development of information kits/documentaries etc.
- Special Publications/Newsletter Published (Printed/online version)

18. Partnerships developed (list)

- Green Ethics Private Limited
- 5 Elements Eco Tech Pvt Ltd
- St. Thomas Charitable and Educational Trust
- The Ramraj Associates
- The Society for Community Organisation and People's Education (SCOPE)

19. Details of hardware purchased under EIACP scheme with date of purchase:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant	Desktops - 4	Intel i5, DDR 3, HDD 1TB, RAM, 4GB, Monitor 18.5", OS: windows 10 original,	26-02-2019; No: F. No. 23/18/2018-EI	17/09/2018
	Printer - 1	EPSON L565 All In One - Ink Tank Printer	26-02-2019; No: F. No. 23/18/2018-EI	20/07/2018

20. Issues/ hurdles faced in undertaking EIACP activities: **Nil**

21. Anticipated Products & Processes of Practical/Technological utility /Socio economic relevance evolved if any.

The activities under **TCE EIACP PC RP** are expected to generate practical technologies, sustainable processes, and socio-economically beneficial outcomes. Key anticipated outputs include:

- **Sustainable waste management solutions**, including composting, bio-methanation, and conversion of plastic waste (MLP) into value-added products such as road materials and construction blocks.
- **Circular economy models** for efficient resource recovery, reuse, and integration of informal sectors into structured waste systems.
- **Environmental data systems and decision-support tools** for improved planning and monitoring of air, water, and waste management.
- **Capacity building and training modules** for stakeholders, enhancing skills in environmental management and green technologies.
- **Climate action initiatives**, including carbon footprint assessment and promotion of low-carbon and energy-efficient technologies.
- **Community outreach programmes** leading to improved sanitation, awareness, and livelihood generation.
- **Policy inputs and replicable models** to support government programmes and scalable sustainable development practices.

22. Unique ideas/Initiatives

- The TCE EIACP PC-RP is making a positive impact on environmental conservation by not only spreading awareness but also conducting research in sustainability themes, specifically focusing on the degradation of plastic waste.

- This research can provide valuable insights and solutions for countries struggling with waste management, helping them to develop more effective strategies for creating a cleaner and greener environment.
- By exploring the degradation of plastic waste, the organization can help identify innovative ways to reduce plastic waste, promote sustainable practices, and mitigate the environmental harm caused by plastic pollution.
- This can have far-reaching benefits, from improving public health and protecting biodiversity to supporting economic development and enhancing the overall quality of life.

23. The organization's work can also inform policy decisions and inspire community-led initiatives, empowering individuals, organizations, and governments to work together towards a more sustainable future.

24. Any other information: **Nil**

DECLARATION / CERTIFICATION

It is certified that I have gone through the Annual Progress Report of EIACP centre prepared by EIACP staff and it is confirmed that the facts and figures mentioned in the report are true to the best of my knowledge.

- a. Information provided in this form has been reviewed by me and the same is found in order and complete as per the format provided.
- b. Necessary handholding has been extended by the host institution for the smooth functioning of EIACP centre.
- c. Host Institution followed the directions of the MoEFCC, as issued from time to time.

Sign. with Seal of EIACP Coordinator

Date:

Sign. with Seal of Head of Host Institution

Date: