ANNUAL PROGRESS REPORT

(2019 - 2020)

SUBMITTED TO

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE,

Government of India

THEME AREA OF THE CENTRE

"PLASTIC WASTE MANAGEMENT"

SUBMITTED BY

Dr. R. Vasudevan

Coordinator

TCE ENVIS – RP

Department of Chemistry

Thiagarajar College of Engineering, Madurai

Tamil Nadu









Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

Government of India Ministry of Environment, Forest & Climate Change (EI Division) Fact sheet of 2019-2020 (As on 31.3.2020) on Activities of ENVIS Centre

1Name of Host Organization:Department of Chemistry, Thiagarajar College of Engineering, Madura2Assigned Subject Area:Plastic Waste Management3Date/Month/Year of establishment of ENVIS Centre:MoC signed between Thiagarajar College of Engineering and MoEF & CC, Economic Div Letter Dated 07th February 2018.4Name and designation of ENVIS Coordinator (2018-19):Dr. R. Vasudevan, Professor of Chemistry & ECA, Thiagarajar College of Engineering, Madurai.5Has the Host Organization constituted an Advisory Committee for guiding the activitiesYes	f ision
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(2018-19): ECA, Thiagarajar College of Engineering, Madurai. 5 Has the Host Organization constituted an Advisory Committee for guiding the activities	
Madurai. 5 Has the Host Organization constituted an Advisory Committee for guiding the activities Yes	
Advisory Committee for guiding the activities	
Advisory Committee for guiding the activities	
of the Centre?	
Composition of the Advisory Dr. V. Abhaikumar, Chairman, TCE ENVIS, Thiag	garajar
College of Engineering, Madurai.	
(Select YES or NO: if YES kindly fill the right Dr. R. Vasudevan, Convener, TCE ENVIS,	
column space; if NO kindly leave it blank) Dean, Thiagarajar College of Engineering, Mad	urai.
O YESV Dr. M. Kottaisamy, Member of TCE ENVIS	
Prof & Head Department of Chemistry, Thiagan	ajar
College of Engineering, Madurai	
Dr. RA. Alaguraja, Member of TCE ENVIS	
Assoc. Prof., Department of ECE, Thiagarajar Co	ollege
of Engineering, Madurai	SheBe
Dr. S. Muthuramalingam, Member of TCE ENV	IS
Assoc. Prof., Department of IT, Thiagarajar Co	
of Engineering, Madurai	
Dr. D. Tamilselvi, Member of TCE ENVIS	
Assoc. Prof. Department of IT, Thiagarajar Co	llege
of Engineering, Madurai	
Dr. C. Dalaii Mambar of TCE ENVIC	
Dr. G. Balaji, Member of TCE ENVIS Assoc. Prof Department of Arch, Thiagarajar	
College of Engineering, Madurai	
Dr. A. Ramalinga Chandra Sekar, Program Off	icer
TCE ENVIS Thiagarajar College of Engineering,	,
Madurai	

Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

Name	Position	Qualification & Experience	Joining Date in	Joining Date in	2019-20		
			ENVIS	current	Leaving	Emolumer	nts draw
				position	Date (i.a)	Monthly	Annu
Dr. A. Ramalinga Chandra Sekar	Program Officer	M.Sc., M phil Ph.D., 2 Year 1 Month	01-03- 2018	01-03- 2018		42446	5093
Dr. B. Sundara kannan	Information Officer	M.Sc., Ph.D., 2 Year 1 Month	01-03- 2018	01-03- 2018		35452	42542
Mr. M. Chander Kumar	Information Technology Officer	MCA., ME., 1 Year 6 Month	01-03- 2018	01-03- 2018	01-10- 2019	28673	17203
Mrs. S. Gomathi	Data Entry Operator	M.com., 2 Year 1 Month	01-03- 2018	01-03- 2018		13310	15972
Founded in 19 industrialist Late Chettiar Thiagar (TCE) is an ISO 9 affiliated to Ann Madurai, the Terr by Central & Management. Th approved by the Education, New Autonomy in the have been accred Accreditation(NBA undergraduate programs and doo Science and Archi	Shri. Karumu ajar College 001: 2008 cert a University a ple City. The c State Gov e courses offe All India Coun Delhi. TCE year 1987 an lited by the Na A). TCE programs, 10 ctoral programs	of Engineering tified institution and situated in ollege is funded ernments and ered in TCE are cil for Technica was granted d the programs ational Board of offers &	n of data g an ope n schola n facilita d Plastic d enviro e the NE l MOEF d role in s who w f	a on "Plast en access irs, faculty ate aware waste N onment. T Son diffen & CC. Th n providin	ic Waste N resource f v, NGO ar ness of t lanageme he ENVIS of rent paran he ENVIS of g newer	tion and dis Managemen for student nd public. The present nt and its centre also neters as su centre will data for ro te Managen	nt" which s, resea This wo t statua role in focuse aggeste play a esearch

8. Databases:

8.1. Catalogue of Non-Numeric Databases compiled by the ENVIS Centre till date:

Name of Data base	Description	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of updation/ periodicity/Dat a points compiled (including date/month/ year of last data point	Source (s) Of the data	Online Availability (whether uploaded on ENVIS Website)
Introduction to Plastic	A brief details about the plastics	Descriptive & graphical	Once	Internet, Universities, libraries & national institutions	Yes
History of Polymers	A brief details about the polymers	Descriptive & graphical	Once a year	Internet, Universities, libraries & national institutions	Yes
Plastic Time Line	A brief details about the growth of polymers	Descriptive & graphical	Every Month	Internet, Universities, libraries & national institutions	Yes
Chemistry of Polymers	A brief details about the chemical nature and structure of polymers	Descriptive & graphical	Every Month	Internet, Universities, libraries & national institutions	Yes
Development of Plastic Product	A brief details about the systematic developments in plastic industries	Descriptive & graphical	Every Month	Internet, Universities, libraries & national institutions	Yes
Plastic Production	A brief details about the production of plastics in India and in abroad	Descriptive & graphical	Every Month	Internet, Universities, libraries & national institutions	Yes

Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

Plastic Processing	A brief details about the processing of plastics	Descriptive & graphical	Monthlyonce	Internet, Universities, libraries & national institutions	Yes
Plastic & Environment	A detailed report on the plastics and its role in the environment.	Descriptive & graphical	Monthly once	Internet, Universities, Iibraries & national institutions	Yes
Chemicals in Plastic	A detailed report on the plastics and its chemical nature	Descriptive & graphical	Monthly once	Internet, Universities, Iibraries & national institutions	Yes
Consumption of Plastic – Global Scenario	A detailed report on the plastics and its consumption international.	Statistics	Once/year	Internet, Universities, Iibraries & national institutions	Yes
Consumption of Plastic – India Scenario	A detailed report on the plastics and its consumption Indian.	Statistics	Once/Year	Internet, Universities, libraries & national institutions	Yes
Disposal of Plastic	A detailed report on the plastics and its methods of disposal	Descriptive & graphical	Upcoming	Internet, Universities, Iibraries & national institutions	Yes
Plastic Pollution	A detailed report on the plastics and the pollution generated when it is disposed in the environment	Descriptive & graphical	Upcoming	Internet, Universities, libraries & national institutions	Yes
E-Waste	A detailed report on the E- waste and E waste plastics	Descriptive & graphical	Monthlyonce	Internet, Universities, libraries & national institutions	Yes

8.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of Database	Description (in brief)	Time period (starting Year- ending year) and Periodicity (annual/Monthly/ other	Source (s) of data	Online Availability (Whether uploaded on ENVIS Website)
News & Events	TCE ENVIS announcements & Regular ENVIS Events	Regularly	Online	Available online
Live News	Live News provides the news about our theme area from various source	Daily	Automated NEWS Catcher Program	Available online
Opportunity	Provide information about opportunity in the assigned topic for students, scholars and job seekers	Upcoming	Online	Shortly Available
Interesting facts	Recent discoveries, interesting information	Upcoming	Online	Shortly Available
Image of the week	Providing detailed information about Waste Management	Upcoming	Online	Shortly Available

Name of Database	Description (in brief)	Time period (starting Year- ending year) and Periodicity (annual/Monthly/ other	Source (s) of data	Online Availability (Whether uploaded on ENVIS Website)
Kids corner	Website for children. Provides simple information about our theme area plastics & its waste management	Monthly Minimum One	Online	Available Online
Experts	Database with list of eminent scientist and professors in respective field	Final List Consolidated and Awaiting for Approval	Online and offline	Shortly Available

Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

8.3. New Databases developed during the Financial Year (2019-20)

8.3.1. Non-numeric Databases:

Name of Database	Description (in brief)	Data type (descriptive/ Graphical/ Geospatial/ Etc.)	Status of Updation/ Periodicity/Data points Complied (including date/month/year of last data	Source (s) of data	Online Availability (Whether uploaded on ENVIS Website)
Video Gallery		Completed		Online	Available O
Photo Gallery	TCE ENVIS & GSDP Activities	Images	Frequently	Online	Available Online

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the Financial Year 2019-20

Cover snapshot	Quarter/ Volume/ Issue/ Theme / Main Articles	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	Volume II, Issue 1 April to June 2019 Air Pollution	100	www.tceenvis.in/Newsletter
	Volume II, Issue 2 July to September 2019 Waste Water Management	100	www.tceenvis.in/Newsletter

	Volume II, Issue 3 October to December 2019 Solid Waste Management	100	www.tceenvis.in/Newsletter
<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>	Volume II, Issue 4 January to March 2020 Utilization of Waste Plastic	100	www.tceenvis.in/Newsletter

9.2 Other publications/ information products brought out during the Financial Year (2019-20):

Cover Snapshot	Publication / Product Theme (s)/Subject Area (s)	Number of copies printed and circulated	URL of the PDF file in ENVIS website
<section-header></section-header>	Air Pollution	50	www.tceenvis.in/posters

<image/> <section-header></section-header>	Solid Waste Management	50	www.tceenvis.in/posters
<section-header></section-header>	Waste Management	50	www.tceenvis.in/posters
<section-header></section-header>	Waste Management	50	www.tceenvis.in/posters
<section-header><section-header></section-header></section-header>	Water Pollution	50	www.tceenvis.in/posters

Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

9.3. Information Products published/ released during last five years:

Publication/Product	Theme (s)/ Subject Area (s)	Year of Publication	URL of the PDF file in ENVIS Website			
A Monograph on Plastic Waste Management is under process						

- **10. ENVIS Website (ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible):**
 - 10.4. URL: http://tceenvis.in
 - 10.5. Status of restructuring of Website: Not restructured
 - **10.6. Frequency of updating Website 2019-20: Daily**
 - 10.7. Subject-specific database updating (numeric/ others): Frequent
 - 10.8. Publication uploaded/ updated on Website: Frequent

11. User Engagement and Interaction

User engagement and interaction	FY 2019-20
i. Total Number of Visits	78560
ii. Number of Unique Visits	18345
iii. Reports Downloaded / Read	546
iv. Total Number of Queries	25
Received	
v. Grade Received	Α

- 11.1. Total number of visits on Website (2019-20): 78560
- 11.2. Number of unique visits on Website (2019-20): 18345
- 11.3. Number of reports downloaded/ read by stakeholders: 546

11.4. Query-Answer Statistics 2019-20: As on 31-Mar-2020 : 25

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Online (CMS based website)	10	10	NA
Email (official IN server)	15	15	NA
Postal/Telephonic (incl. hand post)	-	-	-
Physical	-	-	-

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Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

12. Implementation of Annual Plan of Activities of the Financial Year (2019-20):

Activity/ Target	Achievement	Shortfalls, if any, and reasons therefore
ENVIS Newsletters, Volume – 1 (Issue 3) Volume -2 (Issue 1, 2, 3) will be published	Completed	NA
Database Development (Plastic Waste Management)	Completed	NA
Impact / Analysis	Completed	NA

13	New initiatives taken during	1. The TCE ENVIS team have visited the M/S Duroflex
	the Financial Year (2019-20):	company and helped them in laying roads with the
		utilization waste plastics.
		·
		2. The TCE ENVIS team delivered a guest lecture on
		"Handling Plastic Waste" at the prestigious ISRO
		Propulsion Complex, Nagercoil, Tamil Nadu
		3. The TCE ENVIS RP team was invited by the Udupi
		town panchayat for conducting a training program on
		the use of waste plastics in construction of roads.
		4. The TCE ENVIS RP team was invited by the Chief
		Engineer, BRO, Pune for delivering a lecture on plastic
		tar road laying.
		5. The TCE ENVIS RP team was invited by the Clean
		Kerala Company Limited for conducting a training
		program on the use of waste plastics in construction of
		roads
		6. The TCE ENVIS RP team had exhibited their work on
		plastic waste management at IPLEX – 2019, held at
		Bengaluru
		7 The TCE ENVIS DD team was invited by National
		7. The TCE ENVIS RP team was invited by National
		Centre for Coastal Research, Ministry of Earth Science,

14.	Date of most recent physical verification by the Ministry:	Nil
		10. Visit of Nepal country's top Engineers to TCE ENVIS RP for getting training on plastic waste management and in plastic tar road laying process.
		 8. The TCE ENVIS RP team was invited by Lucknow Development Authority, Lucknow The team gave training to the PWD engineers of LDA om plastic tar road laying 9. The TCE ENVIS RP team and the GSDP II participants made a visit to nearby government school for conducting an awareness camp on plastic waste management.
		GOI, for INDO – UK workshop on to be a consultant in managing marine Waste plastics.

15. Status of existing hardware:

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

16. Status of utilization of grant during the financial year 2019-20 as on 31-March-2020 and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (Rs.)	Actual Expenditure (Rs.)	Reasons for Shortfall/ Excess
Recurring	Manpower	14,38,544.48	12, 82, 939.00	IT officer resigned
Annual				from October
				2019
	Others	4,65,000.00	4, 63, 613.00	NIL
	Travel	1,00,000.00	0.00	IInd Installment
				Recvd During 26-
				03-2020
Total		20, 03, 854.00	17, 46, 552.00	

17. Issues/ hurdles faced in undertaking ENVIS activities:

1.	NIL	
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S.NO	Reports	Image
1.	April-June, 2019	
1.	April-June, 2019	9.1 - TCE ENVE Total regression Dotation Dotation
2.	July-September, 2019	Q 2 - TCE ENVIS Teal Onlay: 0
		Expenditure: 0 Q1 Q2 Q3 Q4 s 0 s 0 s Industre Nator Target Actional VTD:
		Number of information knowledge products developed. 05 05 Number of thematic maps developed. 01 00
		Number of Molecularyatic 42 00
		Number of ENVIS Hole/Resource Partners (RPs) established. 00 00 Time series descriptive wannekaal environmental information 05 03
		Time series descriptive municipal entrementation information 05 03 database for distribution consumption entrementation of entrementation information 05 03 analysis for policy implications. Number of youth skilled under various gnees skilling 20 00
		programmes
		Number of Asidorals Grams overend for providing stochastal 05 (3) experise for implementing the onviewmental development activities.
		Number of SoER and SoE Adlases published. 00 00
		because in results of discussional of a consoline approximation fail working or in which and PNVFS concern provides up you by all statistications - students, researchers, policy makers, general public es.

Quarterly TCE ENVIS (RP) reports for FY-2019-2020.

3.	October – December 2019			
5.				
	Q 3 - TCE ENVIS - Year 2019 (October to December 2019) Total Common (9)			
	Total Orality in Espendime: 0 01 02 03 04 0 a 0 04			
	Se NO. Indicate Name	Target	Achieved ¥TD:	
	Number of information (anowheige products developed.	.01	00	
	2 Number of thematic maps developed.	.01;	00	
	3 Number of Mobile Apps developed	00	00	
	4 Number of EXVIS Hubs/Resource Partners (RH) established.	NA	NA	
	5 Time where the description instantical environmental information (stability of descriptions) or of descriptions or only developed along, with the analysis for policy implications.	3months	60	
	6 Number of yourh skilled under various green skilling programmes.	00	00	
	7 Number of districts surveyed.	01	01	
	Number of Audato Granu covered for providing unbiated experision for improvementing the environmental development activities. Number of SoliR and Soli. Atdance published. Number of SoliR and Soli. Atdance published.	05 NA	05	
		NA. 50	NA 50	
	10 Increase in number of downloads of mother approximate southing of individual ENVSC centers, one year proving neural paralla individuals - students, researchers, policy matters, general public are, - and approximate southing and a student southing and a student southing - students, researchers, policy matters, general public are,			
	11 Number of fully and Baseautor Partners set ap visus-vis the targets, over and above the coloing number.	NA	NA	
	Dr. R. VASUBEVAN President Analogo			
	Presented Advances BNID Co-dorteans Department of Disease Tables Tables Care I and State S			
	Carl of Levels Int Cit, of Intel States			
4	January – March 2020			
	Q.4 – TCE ENVIS – Year 2020 (January to March 2020)			
	Total Outlay : 0			
	Tread Outlay: 0 Expenditure: 0	4		
	Tread Outlay: 0 Expenditure: 0	4 1 Target	Achieved YTD:	
	Tread/Outlay: 0 Expenditure: 0 Q1 ^{[10} Q2 ^{[10}		Achieved VTD: 03	
	Tradi Outloy: 0 Expendinen: 0 Qx1 0 Qx2 0 Sec. Indicator None	Target		
	Tread Outlay: 0 Expenditive: 0 Q1 Q2 Vo. Tread-outlay: 0 No. 1 Number of information' isome logic products developed.	Target 03	03	
	Tradi Outlay: 0 Sependine: 0 Q1 Q2 No Initiatian Name N Number of indomination knowledge products developed. Number of indomination knowledge products developed. Number of indomination knowledge products developed. Number of Number of Revision (RPA) enablished. Number of INVIS Holto Resource Partient (RPA) enablished.	Target 03 00 01 01 NA	03 00 01 NA	
	Tradi Outloy: 0 Sependine: :0 Q1 Q21 Q1 Q21 Nomber of indicentation/ introviologic products developed. Number of indicentation/ introviologic products developed. Number of Bobble Appr developed. Number of SNVIS Holtor Resource Partners (RPA) established.	Target 03 00 01	03 00 01	
	Yatad Outling: 0 Sapendine: 0 Sapendine: 0 Image: 10 Image: 10 <th>Target 03 00 01 NA 3 Months 14</th> <th>03 00 01 NA 40 14</th> <th></th>	Target 03 00 01 NA 3 Months 14	03 00 01 NA 40 14	
	Yatad Outling: 0 Qapendine: 0	Target 03 00 01 NA 3 Months 14 01	03 00 01 NA 40 14 01	
	Yanda Oxalay, 6 Saparadiner; 0 Q1 Q21 Q01 Q01 <t< th=""><th>Target 03 03 00 01 3 3 Monthy 14 01 07 07</th><th>03 00 01 NA 40 14 01 07</th><th></th></t<>	Target 03 03 00 01 3 3 Monthy 14 01 07 07	03 00 01 NA 40 14 01 07	
	Yanda Coality : 0 Superditive : 0 Q1 Q21 Q01	Target 03 03 00 01 01 NA 3 3 Months 14 01 07 NA	03 00 01 NA 40 14 01 07 8NA	
	Yanda Oxalay, 6 Saparadiner; 0 Q1 Q21 Q01 Q01 <t< th=""><th>Target 03 03 00 01 3 3 Monthy 14 01 07 07</th><th>03 00 01 NA 40 14 01 07</th><th></th></t<>	Target 03 03 00 01 3 3 Monthy 14 01 07 07	03 00 01 NA 40 14 01 07	
	Find Outley : 0 Pind Outley : 0	Target 03 03 00 01 01 NA 3 3 Months 14 01 07 NA	03 00 01 NA 40 14 01 07 8NA	
	Find Outley : 0 Pind Outley : 0	Target 0 03 0 01 0 03 0 04 0 05 0 06 0 07 0 08 0 09 0 01 0 02 0 03 0 04 0 05 0	03 00 01 NA 40 14 01 07 59	
	Find Outly : 0 Image: Second	Target 0 03 0 01 0 03 0 04 0 05 0 06 0 07 0 08 0 09 0 01 0 02 0 03 0 04 0 05 0	03 00 01 NA 40 14 01 07 59	

Green Skill Development Program (GSDP)

Courses offered	Course starting date batch-wise	Batch-size	Sanctioned amount during FY 2019-20	Remarks/curren t status
TCE ENVIS RP Plastic Waste Management	Batch -02 Jan 2020 – March 2020	14 students	Dated 14 th October, 2019 (INR 6,55,000)	Completed

Certificate Course on "Waste Management"

The course is free of cost and only the candidates who are science graduates and unemployed can apply for this course. The course aims at imparting knowledge and skills on Waste Management. To Conduct a Skill Development course on "Waste Management" is the need of the hour. The course content was well planned and it also addressed all the Skills one need to possess to become a waste management expert. On completing the course, the students passed out were very confident in different techniques and technologies in the field of Waste Management.



Participant Details

S.NO.	Candidate Name	Qualification	Place	Training Period
1	ANUSHA A	Masters, Botany	Madurai	22 nd January to 17 th March 2020
2	MANIKANDAN M	Seed tech Botany, zoology bachelor	Madurai	22 nd January to 17 th March 2020
3	PALANISAMY A	Diploma in mechanical Engineering	Salem	22 nd January to 17 th March 2020
4	PRIYADHARSHINI R	B.tech Bio- technology	Mannargudi	22 nd January to 17 th March 2020
5	RAJA DAVID D	B.A. Tamil Lit	Madurai	22 nd January to 17 th March 2020
6	RATHI R	Physics, Bachelor	Sengamalapaati	22 nd January to 17 th March 2020
7	SARALA DEVI R	Botany Bachelor	Sivakasi	22 nd January to 17 th March 2020
8	SENTHIL K	EEE Bachelor	Virudhunagar	22 nd January to 17 th March 2020
9	SHRINITHA .T. M	Botany, Masters	Thirupparankundram Madurai	22 nd January to 17 th March 2020
10	SHRINIVASAN GB	B.tech Bio-technology	Erode	22 nd January to 17 th March 2020
11	SUDALAI MUTHU R	Environmental eng. Masters	Madurai	22 nd January to 17 th March 2020
12	SUDHARSANA S	Masters, Hospital Management	Puliyankulam, Madurai	22 nd January to 17 th March 2020
13	UMA SHANKAR K	Chemistry, Bachelor	Madurai	22 nd January to 17 th March 2020
14	VISHALAKSHI S	Botany, Masters	Narayanapuram Madurai	22 nd January to 17 th March 2020

GSDP II – COURSE ON WASTE MANAGEMENT 2020 BATCH - Inauguration



GSDP II – COURSE ON WASTE MANAGEMENT 2020 BATCH - Valedictory function



GSDP II Field trip for the candidates of the course on Waste Management



Madurai Water Conclave 2020 – Striving to achieve SDG 6 objectives Conference, Pandiyan Hotel, Madurai



Kalasalingam University – Srivilliputhur (Vermi compost & Water treatment Plant)













Saraswathi Narayanan College field visit to Unit of Rural Bio- technology (Solid waste manage to mushroom cultivation, bricks)





Ecosan's community toilets in Musiri {SCOPE's founder Marachi Subburaman} Musiri Corporation Solid Waste Management Site







GSDP II Participants being taught by the faculty and by various Guest lecturers







Profiles and Projects of GSDP Participants:

S.NO.	Candidate Name	UID	Project Title	
1	ANUSHA A	AnuS08071993	Collection and disposal of E- waste	
2	MANIKANDAN M	Mani25011979	Types of compost using of organic waste	
3	PALANISAMY A	PALA15071983	Waste Management for TCE Mens Hostel Canteen & Campus"	
4	PRIYADHARSHINI R	PRIY08101997	Home Made Incinerator	
5	RAJA DAVID D	RAJA08041972	Providing Opportunity for Women SHG's Start up to become a sustainable Entrepreneur in Solid Waste Management to sweep the money SA	
6	RATHI R	RATH30061982	Waste Management in Food Industries	
7	SARALA DEVI R	SARA07061973	Useful Products out of Industrial waste	
8	SENTHIL K	Sent18101983	Waste to Energy (RDF)	
9	SHRINITHA .T. M	SHRI16051996	Upcycling of flower wastes to natural dyes	
10	SHRINIVASAN GB	Shri14111994	Trash cash Initiative (You Give Trash We Give Cash)	
11	SUDALAI MUTHU R	Sudah26031995	Solid Waste Management through a sustainable Circular Economy Approach	
12	SUDHARSANA S	SUDH24061982	Effective Waste Management in Healthcare Sectors	
13	UMA SHANKAR K	K_UM21031968	Recycling of plastics to useful materials	
14	VISHALAKSHI S	VISH06111996	A smart, efficient, accountable waste-to-resource network	

Success Stories of the trained Canditates FY 2019 -20

S.NO.	Candidate Name	Qualification	Current Placement
1	ANUSHA A	Masters, Botany	Ph.D Scholar in Thiagarajar College Madurai
2	MANIKANDAN M	Seed tech Botany, zoology bachelor	Became an entrepreneur in Waste Management
3	PALANISAMY A	Diploma in mechanical Engineering	CMM – BOILER in Steel Authority of India Ltd,
4	PRIYADHARSHINI R	B.tech Bio- technology	Higher Studies
5	RAJA DAVID D	B.A. Tamil Lit	Became an entrepreneur in Waste Management
6	RATHI R	Physics, Bachelor	Mentors
7	SARALA DEVI R	Botany Bachelor	Mentors
8	SENTHIL K	EEE Bachelor	Testing Engineer, (Tata Power - wind Power)
9	SHRINITHA .T. M	Botany, Masters	Ph.D Scholar in Thiagarajar College Madurai
10	SHRINIVASAN GB	B.tech Bio-technology	Became an entrepreneur in Waste Management
11	SUDALAI MUTHU R	Environmental eng. Masters	Ph.D Scholar in Thiagarajar Engineering College Madurai
12	SUDHARSANA S	Masters, Hospital Management	Bio Medical Waste Management consultant
13	UMA SHANKAR K	Chemistry, Bachelor	Waste Management Consultant
14	VISHALAKSHI S	Botany, Masters	Ph.D Scholar in Thiagarajar College Madurai

TCE ENVIS – Activities Report FY 2019 – 2020

Name of the Program:ENVIS National review meeting at New DelhiDate:02.04.2019.

- TCE ENVIS RP has shown caused their activities in the National Review Meeting, held at the lawns of MOEF & CC, New Delhi on 02.04.2019.
- The Principal Secretary has visited our stall and interacted with us regarding the activities of TCE ENVIS RP on plastic waste management.
- The Senior Economic Advisor, the Economic Advisor and the Joint Director were present.



Name of the Program: Laying of plastic Tar Road at M/s Duroflex company Date: 12 April 2019.

- The TCE ENVIS team have visited the M/S. Duroflex company and helped them in laying Plastic tar roads with the utilization waste plastics.
- The TCE ENVIS team helped the company in reusing their waste plastics in laying of road.





Name of the Program: Seminar on Plastic Waste Management at ISRO Mahendragiri Kavalkinaru. Date: 17.05.2019.

Details:

- The TCE ENVIS team delivered a guest lecture on "Handling Plastic Waste" at the prestigious ISRO Propulsion Complex, Nagercoil, Tamil Nadu
- The seminar is on "Disruptive Innovations"



Name of the Program: 1st Global Conference and Awards, Exhibition on recycling, waste management & Environment / Climate Change, EPR, conducted by MSME, New Delhi Date: 15.06.2019.

- The TCE ENVIS RP team had participated in the 1st global conference om waste management conducted by MSME, New Delhi
- The team had delivered guest lecture on the title "Circular Economy on Plastic Waste Management"
- Scientist and peoples from Various industries had participated in the seminar



Name of the Program: Invited Lecture at Border Road Organization, Pune on Plastic road laying Date: 02.07.2019

Details:

- The TCE ENVIS RP team was invited by the Chief Engineer, BRO, Pune for delivering a lecture on plastic tar road laying.
- Training was given to the Engineers of the BRO, who have participated from all over the country





Name of the Program: Invited lecture at Centre for Science and Environment New Delhi-

"Awareness on Plastic Waste Management"

Date: 08.08.2019 to 09.08.2019

- The TCE ENVIS RP team was invited by Centre for Science and Environment, New Delhi for delivering a lecture on Plastic Waste Management.
- Eminent scientist from polymer industries and packaging industries were participated.



Factsheet of 2019-20 (As on 31-Mar-2020 on Activities of ENVIS Centre)

Name of ENVIS Centre "TCE ENVIS – RP - Plastic Waste Management"

Name of the Program: Panelist for addressing the 8th specialty films and flexible packers global summit 2019.

Date: 21.08.2019 to 22.08.2019

Details:

- The TCE ENVIS RP team was invited by, Ministry of Petro Chemicals and Fertilizers, New Delhi to be a panelist of the committee, which discussed about the classification of single use plastics in the market.
- Participants from various plastic manufacturing industries from all over the world had present in the summit.





Name of the Program: IPLEX – 2019 @ Bangalore Date: 23.08.2019 to 25.08.2019 Details:

- The TCE ENVIS RP team had exhibited their work on plastic waste management at IPLEX 2019, held at Bengaluru.
- The Exhibition was attended by more 3.0 lakhs of visitors from school, colleges, industries and public.TCE ENVIS was placed in the Green Pavilion Theme



Name of the Program: Ozone Awareness Program talk on TCE students Madurai. Date: 16.09.2019

Details:

- Ozone day was celebrated at TCE ENVIS RP in coordination with TCE NSS team.
- Students from all years participated in the program and sincerely listened to the guest lectures delivered by various speakers
- An elocution competition was also conducted and the students presented their views on protecting the ozone layer by avoiding air pollution



Name of the Program: Madurai Kamaraj University College, Global Warming & Climate change Awareness Lecture classes Date: 20.09.2019

- The TCE ENVIS RP team was invited by National Service Scheme, Madurai Kamaraj University, Madurai to deliver a lecture on global warming and its impact.
- NSS volunteers and NSS officers from different colleges in Madurai were present for the seminar





Name of the Program: Swachhata Hi Seva Plastic Waste Cleaning Campaign Program Date: 03.10.2019

Details:

- The TCE ENVIS RP team and NSS of TCE in coordination with Dept. of. Tourism, Tamil Nadu, Govt, conducted a waste plastic cleaning campaign at Thirupparankundram village.
- The NSS students of TCE had actively participated in the program.
- The program was conducted on the eve of the birth day of Mahatma Gandhi



Name of the Program: NCRTCM Bannari amman institution, sathyamangalam Date: 10.10.2019

- The TCE ENVIS RP team was invited by the Dept. Of. Chemistry, BIT, Sathyamangalam, to deliver a lecture on Plastic Waste Management.
- Students from various department of the institute had participated and received the awareness on how plastic waste management can be done



Name of the Program: Indo – UK workshop reference on Marine Litter fate of plastics at Chennai. Date: 14.10.2019 to 15.10.2019 Details:

- The TCE ENVIS RP team was invited by National Centre for Coastal Research, Ministry of Earth Science, GOI, for INDO UK workshop on to be a consultant in managing Marine Plastic Waste.
- The seminar was conducted on the topic Fate of plastics from source to sink
- Dr. R. Vasudevan delivered a lecture on Marine Plastic waste management.
- Eminent professors and Scientists from India and UK had participated in the seminar.



Name of the Program: Seminar and Training on plastic waste management and Plastic Tar road laying at Lucknow

Date: 28.11.2019 to 29.11.2019 Details:

- The TCE ENVIS RP team was invited by Lucknow Development Authority, Lucknow
- The team gave training to the PWD engineers of LDA om plastic tar road laying



Name of the Program: Waste plastic to roads, seminar cum training for engineers. Udupi town panchayat Date: 09.12.2019 to 11.12.2019

Details:

- The TCE ENVIS RP team was invited by the Udupi town panchayat for conducting a training program on the use of waste plastics in construction of roads.
- The team visited the Udupi at gave training to the ULB engineers of Udupi town panchayat.
- The team also done small demonstration of Plastic Tar Road stretch at Udupi.
- The team also visited the solid waste management sites at Udupi town panchayat.





Name of the Program: Delivery Lecture Talk & Training on Plastic Tar road Laying at Clean Kerala Company Ltd, Kerala

Date:

- The TCE ENVIS RP team was invited by the Clean Kerala Company Limited for conducting a training program on the use of waste plastics in construction of roads.
- PWD engineers from various Districts of Kerala had participated in the program.
- The team also done small demonstration of Plastic Tar Road stretch at Trivandrum.





Name of the Program: Plastic Tar Road Laying at Conoor Municipality. Date: 07.01.2020

Details:

- The TCE ENVIS RP team laid plastic tar road at Conoor municipality, Nilgiris
- The road was laid as a model road at Conoor Municipality.



Name of the Program: World Cancer Day, World cancer day organized ENVIS Team & TCE NSS Chief Guest Dr. P. Saravanan M.D, MLA of Thirupparankundram, State Assembly Constituency. Date: 04.02.2020



Name of the Program: Visit of Nepal country's top Engineers to TCE ENVIS RP for getting training on plastic waste management and in plastic tar road laying process Date: 08.03.2020





Name of the Program: Awareness Programme for school Students on Waste Management at Government middle school Thangalacherry, Thirumangalam TK, Madurai district Date: 16.03.2020

- The TCE ENVIS RP team and the GSDP II participants made a visit to nearby government school for conducting an awareness camp on plastic waste management
- Students from 5th std to 9th std participated in the program
- Programs like skit, bommalattam and puppet show was performed before the students in creating awareness on plastic waste management.



