

C. P. R. ENVIRONMENTAL EDUCATION CENTRE

a Centre of Excellence in Environmental Education



ANNUAL REPORT

APRIL 1, 2019 TO MARCH 31, 2020

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Established jointly by the Ministry of Environment, Forest & Climate Change,
Government of India and the C.P. Ramasami Aiyar Foundation

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SUMMARY OF ACTIVITIES

FOR THE YEAR 2019 – 2020

C.P.R. Environmental Education Centre (CPREEC) was jointly set up by the Ministry of Environment and Forests, Government of India and the C.P. Ramaswami Aiyar Foundation in the year 1989 to increase consciousness and knowledge about the environment and the major environmental problems facing India today and to spread the message of conservation of the environment through both the formal and non-formal sectors. CPREEC is a Centre of Excellence in Environmental Education.

CPREEC carried out the following programmes in the year 2019 – 2020.

International Day for Biological Diversity

CPREEC participated in the exhibition on the theme “Our Biodiversity, Our Food, Our Health” organized by the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India with the support of the National Biodiversity Authority (NBA), Chennai on May 22, 2019. CPREEC’s Field Office

at Port Blair organized an awareness programme for youth.

World Environment Day

This year’s “World Environment Day” focused on “Beat Air Pollution”, one of the most challenging environmental concerns of the country. CPREEC organized a “Campaign on Wheels” with the objective to create awareness on “Beat Air Pollution” at Chennai. Pamphlets and posters were distributed to general public and school students. CPREEC’s Ooty Field Office organized an awareness programme at Best Public School, Kadakodu, Ooty

Sacred Grove Conservation

Sacred Grove conservation is one of the flagship programmes of CPREEC since 1994. The sacred groves of Nenmeli and Kunnam in Kancheepuram district, Sithannavalal in Pudukkottai district and Rameshwaram in Ramanathapuram district are well maintained. Casualty replacement of plants was also carried out at the above sites.

Sustainability Education Programme in Schools

The Sustainability Education Programme in schools is implemented by CPREEC with the financial support of WIPRO Foundation, Bengaluru in the states of Tamil Nadu, Andhra Pradesh, Telengana, Karnataka, Goa and the Union Territory of Andaman & Nicobar Islands. Two (2) CPREEC network schools won the WIPRO Earthian Award this year. A seminar on Sustainable Living was organized in October 2019.

CPREEC – ENVIS Resource Partner (RP) for Conservation of Ecological Heritage and Sacred Sites of India

CPREEC's ENVIS Resource Partner (RP) on "Conservation of Ecological Heritage and Sacred Sites of India" of the Ministry of Environment, Forests & Climate Change is involved in collecting, collating and disseminating information. The portal was regularly updated.

CPREEC RP organized five (5) courses as part of Green Skill Development Programmes (GSDP) of the MoEF&CC – two courses in the Nilgiris, one at Port Blair, Andaman & Nicobar Islands, one each at Chennai and Villuppuram. A lecture on Sacred Grove Conservation was organized for French nationals who visited the Centre.

30 years of CPREEC

C.P.R. Environmental Education Centre (CPREEC) set up in 1989 by the Ministry

of Environment & Forests, Government of India and the C. P. Ramaswami Aiyar Foundation, Chennai celebrated 30 years of Environmental Education on **Friday, October 4, 2019**.

Dr. M.S. Swaminathan, Chairman of CPREEC gave away the Best Teacher Award 2019 to Shri. G. Thangaraj, Teacher, Chennai Middle School, Royapettah, Chennai.

CPREEC's publication on ***Religion and Ecology*** was released by Dr. M.S. Swaminathan.

Awareness programmes on Solid Waste Management through Folk Art

CPREEC carried out awareness programmes on Solid Waste Management through folk art (*Therukoothu*) in coastal hamlets of Chennai and Thiruvallur districts in Tamil Nadu funded by the Department of Environment, Government of Tamil Nadu. The *Therukoothu* was performed by the members of **Sree Periandavar Therukoothu Sabha, Puducherry**.

Kindness Kids – Go Veg Programme

CPREEC in collaboration with Humane Society International (HSI) implemented the project Kindness Kids – A vegetarian outreach in schools in the states of Tamil Nadu, Andhra Pradesh, Karnataka and Odisha. The project aims to reach about 50,000 students.

A pamphlet on Go Veg was designed and prepared in English exclusively for the project was translated into regional languages and distributed to school teachers and students.

Food & Environment - Eat Healthy & Go Green

The project was implemented in the states of Andhra Pradesh, Karnataka, Odisha and Tamil Nadu with the financial support extended by Dharma Trust. A pamphlet on *Go Veg - Eat Healthy* has been designed and prepared in English and regional languages and distributed to teachers during the workshops conducted in the above states.

Vegan cooking (Alternatives to milk and milk products and demonstration of Vegan recipes) were organized at CPREEC for women by Ms. Minal Agrawal. A recipe booklet on Vegan cooking was distributed to all the participants.

Awareness raising on Climate Change and Biodiversity Conservation in Andaman & Nicobar Islands

The project was carried out in the Union Territory of Andaman & Nicobar Islands funded by the Department of Science & Technology, Government of India. Workshops for teacher trainees followed by exposure visits were organized.



2

INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY 2019

The celebrations of the International Day for Biological Diversity (IDB) 2019 were scheduled on May 22, 2019 at Kalaivanar Arangam, Chennai. The celebration was organized by the Ministry of Environment, Forest & Climate Change (MoEF&CC) in Chennai with the support of the National Biodiversity Authority. Hon'ble Shri M. Venkaiah Naidu, Vice President of India presided over the celebrations as the Chief Guest. Dr. P. Sudhakar, ENVIS Coordinator and Mr. R. Sathya Narayanan, Information Officer attended the celebration and participated in the exhibition on the theme "Our Biodiversity, Our Food, Our Health".



Six panels on the following topics were designed and exhibited:

- ❖ Biodiversity for Life – Biodiversity for Livelihood
- ❖ Importance of Biodiversity
- ❖ Glimpses of India's Ecological Heritage
- ❖ Green Healers: The Medicinal Plants
- ❖ Plants: The Green Chemists
- ❖ Loss of Biodiversity

PLANTS – THE GREEN CHEMISTS

Why do plants produce compounds with medicinal properties?

Plants synthesise an array of organic compounds such as alkaloids, oils, resins, tannins, gums, waxes and fragrances which are needed for protection from microbes, predators, and environmental stress. For example, Nicotiana glauca - Tobacco plants contain high quantities of an alkaloid called Nicotine, which deters leaf herbivory by insects. These compounds are also used for healing of wounds and infections.

The variety of compounds with myriad actions can be used in human or animal systems for the same protective or healing activity. This is the general logic for the use of plants as medicine.

A few types of Plant Chemicals

- ◆ **Alkaloids**
Example: Quinine in the bark of the Cinchona tree (*Cinchona succubua*).
- ◆ **Terpenoids**
Example: Citral is the main constituent of the oil of Lemongrass (*Cymbopogon* sp.).
- ◆ **Glycosides**
Example: Digoxin in the leaves of Common Foxglove (*Digitalis purpurea*).
- ◆ **Phenol**
Example: Capsaicin present in Marigold (*Cannabis sativa*).

தாவரங்கள் – மருத்துவ மூலப்பொருள்கள்

தாவரங்களில் பல்வேறு வகையான வேதிப்பொருள்கள் உற்பத்தி செய்யப்படுகின்றன. இவைகள் தாவரங்களுக்கு பாதுகாப்பு, நோய் எதிர்ப்பு, பூச்சி எதிர்ப்பு போன்றவைகளுக்கு உதவிக்கின்றன. இவைகள் மனிதர்களுக்கு மருத்துவப் பொருளாகவும் பயன்படுகின்றன.

தாவரங்களில் பின்வரும் வேதிப்பொருள்கள் உற்பத்தி செய்யப்படுகின்றன:

- ◆ **அல்கலாய்டுகள்** – இவைகள் மனிதர்களுக்கு மருத்துவப் பொருளாகவும் பயன்படுகின்றன. எடுத்துக்காட்டு: சின்கொனா மரத்தின் தோலில் உள்ள குயினின்.
- ◆ **டெர்பெனாய்டுகள்** – இவைகள் மனிதர்களுக்கு மருத்துவப் பொருளாகவும் பயன்படுகின்றன. எடுத்துக்காட்டு: லெமோங்ரஸ் மரத்தின் எண்ணெயில் உள்ள சிட்ரல்.
- ◆ **கைசோசைடுகள்** – இவைகள் மனிதர்களுக்கு மருத்துவப் பொருளாகவும் பயன்படுகின்றன. எடுத்துக்காட்டு: டிஜிதலிஸ் மரத்தின் இலைகளில் உள்ள டிஜிதலின்.
- ◆ **பீனோல்** – இவைகள் மனிதர்களுக்கு மருத்துவப் பொருளாகவும் பயன்படுகின்றன. எடுத்துக்காட்டு: மரிஜன் மரத்தின் இலைகளில் உள்ள கப்சைசின்.

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LOSS OF BIODIVERSITY

Habitat Loss

Humans continuously encroach on the natural habitats of many species, as more and more lands are required for housing, farming, mining or cattle grazing. This forces the species to live in fragmented areas, containing fewer resources. Competition for food, shelter and mates become sharper, thus also lowering the possibilities of particular species becoming extinct.

Pollution

Chemicals and other wastes produced by human beings can have adverse effects on the environment. For example, pesticides used on crops can kill not only the harmful pests but also bees and other insects needed to pollinate plants.

Exotic and Invasive Species

Sometimes, either inadvertently or deliberately, new species are introduced into areas where they do not occur naturally. Some of these intruders can prove disastrous for the environment.

Commercial Exploitation / Over-harvesting

If we use the earth's natural resources faster than they can be replaced, species can become extinct. Medicinal plants and fishes such as the cod can be over-harvested. Indiscriminate hunting of animals like Indian Elephants, Bengal Tiger and Whales can lead to their extinction.

Global Warming

The use of fossil fuels (oil and coal) increases the amount of carbon dioxide in the atmosphere. Carbon dioxide, along with other gases such as methane and nitrous oxide, envelops the earth and absorbs light and heat energy. This is referred to as the greenhouse effect. Temperatures on earth have risen due to the increased contents of carbon dioxide in the atmosphere. This may have an adverse effect on the environment and affect the species that live therein. While some may die out, others, may flourish and expand their ranges.

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CPREEC's Field Office at Port Blair, Andaman & Nicobar Islands organised an awareness programme for youth as part of International Day for Biological Diversity. The programme was organised in collaboration with Vidya Yuva Kendra Foundation. Shri. Sukumar Das, Instructor, Forest Training Institute, Wimberlygunj spoke on the importance of biodiversity conservation. Shri. A. Gopal, CPREEC Project Office spoke on food biodiversity for healthy and diverse diet.

International Day for Biological Diversity 2019

Port Blair, May 30. The CPR Environmental Education Centre, Port Blair in collaboration with Vidya Yuva Kendra Foundation observed International Day for Biological Diversity 2019 at VYKF Premises. The theme of this year celebration is "Our Biodiversity, our food, our health". The programme was organized for youths.

Shri. Sukumar Das, Instructor, Forest Training Institute, Wimberlygunj highlighted the importance of Biodiversity relevant with well-being. Shri. A. Gopal, Project Officer, CPREEC, Port Blair explained about Food biodiversity for healthy and diverse diet. Continuation of the programme, video clippings were shown to the participants regarding the biodiversity. Earlier Mrs. Ganceta Balaji, Sr. Faculty, VYKF welcomed the gatherings.

3

WORLD ENVIRONMENT DAY 2019

This year's "World Environment Day" focused on "Beat Air Pollution", one of the most challenging environmental concerns of the country. Dr. Nanditha Krishna, Director, CPREEC, flagged off the "Campaign on Wheels", with the objective to create awareness on "Beat Air Pollution". The Campaign on Wheels went around major mass intensive places like (Central Railway station, Egmore Railway Station, Egmore Museum, traffic interception points at T.Nagar, Vadapalani, Nungambakkam signal, Express Avenue Mall, etc). CPREEC and CPREEC ENVIS Staff members interacted with various stakeholders and distributed posters and pamphlets on air pollution. The team members were able to interact and create awareness about air pollution among the general public and students through distribution of posters.



**Dr. Nanditha Krishna, Director,
CPR Environmental Education Centre, flagging off
the Campaign on Wheels**



Poster distribution to the people and interacting with motorists about air pollution by ENVIS and CPREEC staff members at various traffic interception points

CPREEC's Ooty Field Office organized an awareness programme on "World Environment Day" at Best Public School, Kadakodu, Ooty on June 5, 2019. The chief guest was Mr. Santi A Ramu, MLA, Coonoor Constituency who released the posters that carried the message on Beat Air Pollution and planting the tree. Planting of sapling was also carried out to mark the occasion.



4

SACRED GROVE CONSERVATION

Sacred grove conservation is one of the flagship programmes for CPREEC since 1994. CPREEC has restored 53 sacred groves in the states of Tamil Nadu, Andhra Pradesh and Karnataka.

The sacred groves of Nenmeli and Kunnam in Kancheepuram district, Sithannavasal in Pudukkottai district and Rameshwaram in Ramanathapuram district are well maintained. The Rameshwaram Sacred Grove site with rasi vanam, nakshatra vanam and medicinal plant garden is also maintained with the financial support extended by the C.P. Ramaswami Aiyar Foundation. Casualty replacement of plants was also carried out at the above sites.



5

SUSTAINABILITY EDUCATION PROGRAMME IN SCHOOLS

The Sustainability Education Programme in schools is implemented by CPREEC with the financial support of WIPRO Foundation, Bengaluru in the states of Tamil Nadu, Andhra Pradesh, Telengana, Karnataka, Goa and the Union Territory of Andaman & Nicobar Islands.

Workshops for teachers were organized in all the above states and Union Territory as detailed below:

S.No.	State/UT	Date of the Workshop & Place	Venue & District	No of Participants
1.	Tamil Nadu	July 16, 2019 Chennai	CPR Convention Centre 1, Eldams Road, Alwarpet, Chennai	40
2	Tamil Nadu	July 19, 2019 Thanjavur	Government Girls Hr. Sec.School, (Palace Complex), Thajavur	47
3	Tamil Nadu	July 24, 2019 Coimbatore	Conference Hall, Hotel Park Inn, Coimbatore	36
4	Andaman & Nicobar Islands	22 July 2019 -Port Blair, South Andaman	Siksha sadan, Port Blair, South Andaman	45
5	Andaman & Nicobar Islands	24 July 2019 -Middle Andaman	Seminar Hall, O/o Deputy Edn. Officer,Rangat, Middle Andaman	35
6	Andaman & Nicobar Islands	27 July 2019 -Diglipur North Andaman	Seminar Hall, O/o Deputy Edn. Officer,Diglipur, North Andaman	37
7	Andhra Pradesh	27 July 2019	KSRMZPGHS, Patamatalanaka, Vijayawada	61
8	Tamil Nadu	August 06, 2019	Seminar Hall O/o. Chief Ednl. Officer, Thiruvarur	73

S.No.	State/UT	Date of the Workshop & Place	Venue & District	No of Participants
9	Tamil Nadu	Salem	Vidya Mandir Ananda Ashram School, Mayanur Road, Salem.	56
10	Karnataka	07 th August 2019	Vijaya Chetana PU College , Panchamanthra Road, Kuvempunagar, Mysore.	52
11	Telangana	19 August 2019 Ranga Reddy	ZP High School, Hyathnagar, Ranga Reddy Dist, Telangana	49
12	Goa	29 August 2019 South Goa	Ravindra Bhavan, Margao, South Goa	77
13	Goa	30 August 2019 North Goa	Institute Menezes Braganza, Panaji North Goa	43
14	Karnataka	22 August 2019	Koppal Sharadha Education Society R.G Road,Vidyanagar, Gangavathi, Gangavathi Tq Koppal Dist	66
15	Karnataka	23 August 2019	Bellary district Block Resource Centre, Hosapet, Hosapet Tq Bellary Dist.	62
16	Andhra Pradesh	28 August 2019	ZPHS, Thotagaruvu, Aarilova, Vishakapatnam	53
17	Telangana	31 August 2019	ZPHS, Kukatpally, Medchal district, Hyderabad	48
18	Karnataka	25 September 2019	Seminar Hall, District Institute of Education Training (DIET), Kodugehalli, Kushalnagar, Kodagu	76
19	Tamil Nadu -Puducherry	13 September 2019	Seminar Hall, State Training Centre, Puducherry	51
			Total	1007



Workshop for Teachers on Sustainability Education

Following the teachers training programmes in all the states and union territory, staff of CPREEC visited the schools and interacted with the students and organized cluster school activities. Over 400 project facilitation visits were made in the above states and union territory.

S. No.	State/Union Territory	Districts	Shortlisted projects for National entry		Total Projects Received
1	Goa	South and North Goa	10		42
2	Tamilnadu & Puducherry	Chennai, Kancheepuram, Thiruvallur, Thanjavur, Thiruvarur, Pondicherry, Salem & Coimbatore	14		123
			7		28
			4	=25	
3,4	Andhra Pradesh and Telangana	Krishna, Vijayawada, Medchal and Rangareddy	7		87
5	Andaman & Nicobar Islands	South, Middle and North Andaman	15		70
6	Karnataka	Mysore, Mandya, Coorg, Haveri & Bellary	8		120
Total	7	22	65		470

Winners of WIPRO Earthian Award from CPREEC Network Schools

Category	Theme	Language	School name	Place	Team members	Teacher
Winner	Waste	English	Kautilya Vidyalaya	Mysore	Anirudh Krishna and team	Roopa CR, Dr. Savitha, Krishna Kumari
Winner	Waste	English	St. Joseph's Educational Institute, Chandor	Goa	Trenisha and Team	Teresa Furtado

**Shortlisted schools for WIPRO Earthian Award from CPREEC Network Schools
(The teachers and students were flown to attend the Award Ceremony held at Bengaluru on February 8, 2020)**

Category	Theme	Language	School name	Place	Team members	Teacher
Shortlist	Water	English	Mahalaxmi High School	Kudne Goa	Gaurang Malik	Vishwesh Fatrekar
Shortlist	Water	English	VVSBM Sri.E.I	Mysore	Bhoomi and team	Mangala A
Shortlist	Waste	English	Tejaswi Vidyaranya	Dist Medchal Telangana	Vedith Harsh Akshara Sudarshan	Ms. Sravanthi Vavili Kolanu



Earthian Award Ceremony held at Bengaluru

Regional Recognition Events

Regional Recognition Events were organized at selected cities to motivate the participating school students in Earthian activities. The shortlisted teams were awarded mementos for the schools and certificates for the team.

The project teams were given recognition certificates and the regional winners were honoured with mementos, shawls and incentives. In some of the events, the earthian kit and participation certificates were also given.

S.No.	State	Date	Venue	No. of Participants
1	Andamans	23 Jan 2020	Hall of GMSSS, Aberdeen Port Blair, Andaman & Nicobar Islands	39
2	Andamans	27 Jan 2020	Government Senior Secondary School, Shaheed Dweep, Andaman & Nicobar Islands	36
3	Andamans	30 Jan 2020	Hall of DEO, Rangat, Andaman & Nicobar Islands	25
4	Goa	29 Jan 2020	Institute Menezes Braganza, Panaji, Goa	
5	Karnataka	04 Feb 2020	Kautilya Vidyalaya Kanakadasa Nagar, Dattagalli 3rd Stage, Mysuru 23, Karnataka	55
6	Andhra Pradesh & Telangana	05 Feb 2020	Municipal Hall, Vijayawada, Andhra Pradesh	33
7	Tamilnadu	07 Feb.2020	Gugai Hr. Sec. School, Salem, Tamil Nadu	90
8	Tamilnadu	25 Feb 2020	CPREEC Convention Centre, Chennai, Tamil Nadu	76
Total				254



Students making a presentation during the Regional Recognition Event held at Goa and Salem

**விப்ரோ எர்த்யான் பள்ளி மாணவர்களுக்கு
செயல்திட்டத்திற்கான பரிசளிப்பு விழா**

சேலம், பிப்.10-
சேலம் மாவட்டத்தில்
குடக ஆள்கள் மேல்
நிலைப் பள்ளியில் பள்ளி
கல்வித்துறையும், விப்ரோ
எர்த்யான் மற்றும் சிபிஆர்
கற்றுச்சூழல் கல்வி மையம்
சேனை ஆகியோர்
இணைந்து பள்ளி மாணவர்
களுக்கான செயல் திட்டத்
திற்கான பரிசளிப்பு விழா
நடைபெற்றது.

இந்நிகழ்ச்சிக்கு குடக
ஆள்கள் மேல்நிலைப்
பள்ளி தலைமையாசிரியர்
பனிமேதான் தலைமை
வகித்து மண்டல அளவில்
தேர்ந்தெடுக்கப்பட்ட பள்ளி
மாணவர்களுக்கு கேட்புறம்,
சான்றிதழும் வழங்கினார்.
சிபிஆர் கற்றுச்சூழல் கல்வி
மையம் ஊட்டியின் கன

அலுவலர் எம்.குமாரசேகர
கலந்து கொண்டு செயல்தி
டத்தில் கருபட்ட மாணவர்க
ளையும், ஆசிரியர்களையும்
கனக்கப்படுத்தி பாராட்டினார்.
இதில் 18 வகையான செயல்
திட்டங்களில் 13 வகையான
செயல் திட்டங்கள் மண்டல
அளவில் தேர்ந்தெடுக்கப்
பட்டு பல்கலை வடிவப்ப
பட்ட சட்டமேபன் கற்றுச்சூழல்
ஆர்வன் பங்கெடுத்து வாழ்ந்
தினார், கள்ளத்தேரி பள்ளி
மாணவிகள் கற்றுச்சூழலில்
தவணையின் முக்கியத்துவம்,
ஆரோக்கியமான இயற்கை
யின் சமீக்கையும் என்ற
தலைப்பில் செயல்திட்டம்
சிறப்பானதாக குறிப்பிட்டார்
கள், கள்ளத்தேரி பள்ளியின்
தேசிய புகழப்படை, மருள்
கிணைப்பாளர் ஆர்.ஜெயக்
ஷமா நன்றி கூறினார்.

**Press Clipping of
Regional Recognition Event held
at Salem, Tamil Nadu**



**Dr. Arvind Kumar Saran,
Pr. Scientist,
National Institute of Oceanography,
Goa, addressing the regional
winners during the Regional
Recognition Event held at Goa**

A seminar on Sustainable Living was organized on **Friday, October 4, 2019**. The topics covered and speakers of the seminar are as follows:

Sustainable Cities

Shri. Raj Cherubal

CEO, Chennai Smart City Limited

Sustainability Education

Dr. Sultan Ismail

Managing Director

Eco Science Research Foundation

Sustainable Water Management

Dr. Sekhar Raghavan

Director, The Rain Centre

Sustainable Waste Management

Dr. M. B. Nirmal

Founder, Exnora International

Food and Environment

Dr. P. Sudhakar

Executive Director, CPREEC



Shri. Raj Cherubal



Dr. Sekhar Raghavan



Dr. Sultan Ismail



Dr. M.B. Nirmal

6

CPREEC ENVIS – Resource Partner (RP)

CPREEC's ENVIS Resource Partner (RP) on "Conservation of Ecological Heritage and Sacred Sites of India" of the Ministry of Environment, Forests & Climate Change is involved in collating and disseminating information.

The thrust area of CPREEC ENVIS RP lies in the following specific components comprising of Sacred Plants, Sacred Gardens, Sacred Groves, Sacred Animals, Sacred Mountains, Sacred Rivers, Sacred Water bodies, Sacred Precincts, Sacred Seeds, Sacred Caves, Green Pilgrimage, Traditional Ecological Knowledge and UNESCO World Heritage Sites in India.

ENVIS Newsletters

Ecoheritage.com – ENVIS Newsletters – four issues (online and hard copies) were brought out

❖ April – June 2019	Volume XVIII, No. 1
❖ July – September 2019	Volume XVIII, No. 2
❖ October – December 2019	Volume XVIII, No. 3
❖ January – March 2020	Volume XVIII, No. 4

Abstracts uploaded in the website:

S.No.	Subject Area	April 2019 to March 2020
1.	Sacred Forests	38
2.	Sacred Gardens	4
3.	Sacred Plants	20
4.	Sacred Animals	9
5.	Sacred Rivers	15
6.	Sacred Water bodies	3
7.	Sacred Mountains	11
8.	Sacred Sites	15
9.	Sacred Seeds	18
10.	Green Pilgrimage	3
11.	Traditional Ecological Knowledge	40
12.	UNESCO Heritage Sites	3
13.	Sacred Caves	4

Updation of ENVIS Website

Status of restructuring of Website:	Restructured on (18/01/2012)	
Frequency of updating Website 2019-20	:	1603
Subject-specific database updation (numeric/ others) 2019-20	:	226
Publication uploaded/updated on Website 2019-20	:	06
Glossary uploaded/ updation on Website 2019-20	:	37
Bibliography uploaded/ updation on Website 2019-20	:	180
News uploaded 2019-20	:	648
Upcoming events uploaded 2019-20	:	22
Social media latest news uploaded/updated 2019-20	:	232
Photo Gallery 2019-20	:	211

Details of User Engagement and Interaction of CPREEC ENVIS Site

User engagement and interaction	April 2019 to March 2020
Total number of visits	1832099
Number of unique visits	170113
Reports Downloaded/Read	129
Total Number of Queries received	9
Number of Queries responded	8

Lecture on Sacred Grove Conservation

A group of 25 French nationals and researchers visited our Centre on November 25, 2019. Dr. P. Sudhakar delivered a lecture on Sacred Grove conservation. A PowerPoint presentation on ENVIS website was also made.



CPREEC ENVIS – RP on “Conservation of Ecological Heritage and Sacred Sites of India” organized five (5) Green Skill Development Programme (GSDP) Certificate Courses as detailed below:

GSDP Course on Management of Biodiversity Park

CPREEC organized the GSDP Certificate Course on Management of Biodiversity Park from August 26, 2019 to October 23, 2019 at the Botanical Garden, Auroville, Vanur Taluk, Villupuram District, Tamil Nadu. The course aimed to develop a basic understanding of the principles of plant propagation, an overview of propagation techniques, a general knowledge of the methods of propagation of the more commonly cultivated plants and the basic knowledge on entrepreneurial skills required to run a small scale commercial nursery.

Mr. V. Ramalingam, (Retd.) In-Charge of Environment Cell, State Training Centre, Directorate of School Education, Puducherry inaugurated the programme and addressed the gathering and Dr. P. Sudhakar, Executive Director and ENVIS Coordinator, CPREEC, explained the details of the course to the participants.

A total of 30 participants attended the programme. Experts and Resource Persons from various Government Departments were invited to deliver lectures and to further enrich the knowledge of the participants.



Demonstration of grafting techniques to the participants



Pot mixture filling for cuttings by the participants of GSDP Course

The valedictory function was held on October 25, 2019 at the Botanical Garden, Auroville, Villupuram District. Dr. Nanditha Krishna, Honorary Director of the host organization (C.P.R. Environmental Education Centre) delivered the valedictory address and distributed the certificates to the participants. Dr. Paul Blanch Flower, Director, Auroville Botanical Garden, Villupuram, distributed saplings and gardening kit to the participants.

Mr. V. Ramalingam, Environmentalist, Puducherry felicitated the participants. Each participant were given nursery bags, terrace garden bags, pots, gardening tools, mother plant saplings and ten varieties of seeds. On the whole, based on the participants' enthusiasm and their readiness during practical sessions, the course seemed to be highly beneficial to the participants.



News clipping of the Valedictory programme of GSDP Course (Dhinakaran, Tamil Daily 24/10/2019, Puducherry Edition)

GSDP Course on Value Addition and Marketing of NTFPs (Plant Origin) Bamboo Handicraft

CPREEC organized the Green Skill Development Programme (GSDP) Certificate Course on **Value Addition and Marketing of NTFPs (Plant Origin) Bamboo Handicraft** from September 18, 2019 to November 20, 2019 at Port Blair, Andaman & Nicobar Islands.

Smt. Jayashree Ardey Chauhan IFS, Principal Chief Conservator of Forests (Planning & Development), Department of Environment and Forest, A&N Administration inaugurated the certificate course. Shri. Ajit Anand, Director, Department of Industries was the Guest of Honour in the presence of Dr. Jayakumar, Principal, Andaman College & Joju P. Alappat, Director, Forest Training Institute. Dr. P. Sudhakar, Executive Director, CPREEC, Chennai gave the introduction of Green Skill Development Programme (GSDP). Shri. Joju P. Alappat, Director of Forest Training Institute interacted regarding the bamboo and its importance among the participants.

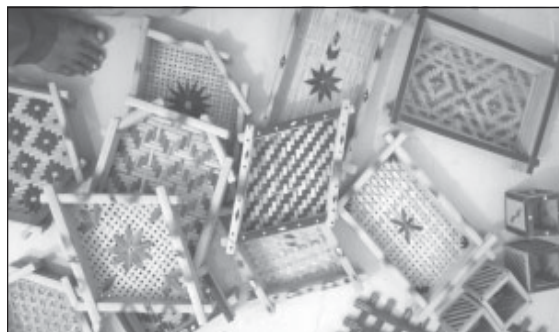
The valedictory function of the certificate course was organized at the Tagore Government College of Education Auditorium on November 27, 2019. The program was inaugurated by Shri. M. Raj Kumar, IFS, Chief Conservator of Forests (Research and Planning), Department of Environment and Forest, A&N Administration. Dr. C. Sivaperuman, Officer In-charge, Zoological Survey of India, Port Blair was the Guest of Honour in the presence of Shri. J. Chandra Mouli, Assistant Director, MSME, Port Blair and Shri. Kumaravelu, Asst. Director (H), Office of the Development Commissioner (Handicrafts), Ministry of Textiles, Government of India, Port Blair.



**Shri. Joju P. Alappat, Director,
Forest Training Institute,
Port Blair interacting with
the Trainees**



Session on tools handling



Bamboo products made by the GSDP Course participants



Participants with the GSDP Course completion certificates



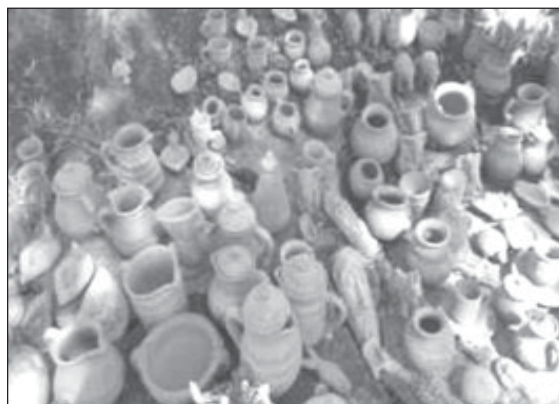
Andaman Sheekha, Port Blair Press Clipping

GSDP Course on Traditional Pottery and Terracotta Crafts for Kota Tribal Women

CPREEC organized the Green Skill Development Programme (GSDP) Certificate Course on **Traditional Pottery and Terracotta crafts for Kota Tribal Women** from October 16, 2019 to December 20, 2019 at Nilgiris. The course was conducted at Sholur Kokkal. Dr. Subramaniam, Director, Tribal Research Centre, The Nilgiris inaugurated the Certificate Course and addressed the participants. He highlighted the importance of the course which would provide a living to the tribal.



Inauguration by Dr. Subramaniam, Director, Tribal Research Centre, The Nilgiris



Display of Kota pottery made by the trainees

The valedictory function was organized at Sholur Kokkal on December 20, 2019. Dr. P. Sudhakar, Executive Director & ENVIS Coordinator participated and distributed the certificates to the participants of the course. The pottery items made by the Kota tribal women were on display.



Kota tribal women with GSDP course completion certificates

GSDP Course on Value Addition and Marketing of NTFPs (Plant Origin) Coconut Shell and Fibre Handicrafts

The GSDP Certificate Course on **Value Addition and Marketing of NTFPs (Plant Origin) Coconut Shell and Fibre Handicrafts** was organised at Gudalur in the Nilgiris from November 21, 2019 to February 26, 2020. The course was inaugurated on November 21, 2019 by Mr. Raj Kumar, Revenue Divisional Officer (RDO), Gudalur, The Nilgiris.



Mr. K.V. Raj Kumar, Revenue Divisional Officer (RDO), Gudalur, the Nilgiris, delivering the inaugural address

The GSDP Trainees were taken on an exposure visit to Sargaalaya Kerala Arts and Crafts Village at Kozhikode District, Kerala on February 18, 2020.

The valedictory function was held at Gudalur on February 26, 2020. Dr. Nanditha Krishna, Honorary Director, CPREEC – RP delivered the valedictory address and distributed the certificate to all the participants of the course.



**Dr. Nanditha Krishna, Honorary
Director of CPREEC delivered
the Valedictory address**



Participants with course completion certificate



GSDP Certificate Course on Pollution Monitors (Air and Water)

The GSDP Course was conducted at CPREEC from February 24, 2020 to March 21, 2020. Dr. Nanditha Krishna, Honorary Director inaugurated the course and addressed the participants. A total of 22 participants attended the course.

The course aimed at making the participants understand the scientific concepts to the Air and Water pollution monitoring to protect human health and the environment and also enable them to obtain gainful employment in this sector.

Experts and Resource Persons from various Government Departments, reputed institutions and private organizations were invited to deliver the lectures and to further enrich the knowledge of the participants. The participants were assisted in their learning by providing access to the centre's library and also by providing broadband support to ensure smooth flow of information.



**Practical session on analysis of Water quality using Water Testing Kit
at CPREEC Laboratory, Chennai**

Exhibition and sale of GSDP products developed by trainees

Exhibition and sale of Kurumba paintings, Kota pottery, bamboo and coconut shell handicrafts made by the participants of GSDP courses were organized by CPREEC-ENVIS RP, Chennai. This exhibition was inaugurated by Smt. Suhasini Maniratnam at the C.P. Art Centre, Chennai.



Press Clippings



Daily Thanthi

WOMEN'S BAZAAR

A Women's Bazaar, where entrepreneurs showcase and sell the products they make or source is on till March 9 at C. P. Art Centre's two galleries. A variety of clothes, a variety of crafts – handmade and otherwise, foodstuff and home accessories are on sale.



Also, showcasing tribal crafts – Kota pottery, Kurumba paintings and bamboo decorations and utilities.

Mylapore Times

7

30 YEARS OF CPREEC

C.P.R. Environmental Education Centre (CPREEC) set up in 1989 by the Ministry of Environment & Forests, Government of India and the C. P. Ramaswami Aiyar Foundation, Chennai celebrated 30 years of Environmental Education on **Friday, October 4, 2019.**

Dr. M.S. Swaminathan, Chairman of CPREEC gave away the Best Teacher Award 2019 to Shri. G. Thangaraj, Teacher, Chennai Middle School, Royapettah, Chennai.

CPREEC's publication on ***Religion and Ecology*** was released by Dr. M. S. Swaminathan. The copies were received by Shri. N.R. Krishnan, IAS, (Retd.), Former Secretary, Ministry of Environment & Forests, Government of India and Member of the Board of Governors of CPREEC, Dr. Sultan Ismail, Member of the Board of Governors of CPREEC and Ms. Manveen Kaur Chadha.



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AWARENESS PROGRAMMES ON SOLID WASTE MANAGEMENT THROUGH FOLK ART

CPREEC carried out awareness programmes on Solid Waste Management through folk art (*Therukoothu*) in coastal hamlets of Chennai and Thiruvallur districts in Tamil Nadu funded by the Department of Environment, Government of Tamil Nadu.

Awareness programmes in schools were conducted during day time and for general public, the programme was conducted in the evening. The *Therukoothu* was performed by the members of **Sree Periandavar Therukoothu Sabha, Puducherry**.

Chennai District

School Programmes

Sl. No	Date	Name of School / Place	No. of students	
			Boys	Girls
1.	27.06.2019	Annai Veilankanni Matriculation Higher Secondary School, West Saidapet, Chennai District	250	115
2.	27.06.2019	Chennai Girls Higher Secondary School, Saidapet, Chennai District	-	150
3	28.06.2019	C.S.I. Kellett Higher Secondary School, Triplicane, Chennai District	300	-
4	28.06.2019	K.R.C.A.R.C. Girls Higher Secondary School, Muthialpet, Chennai District	-	300
Total			550	565

Village programmes

Sl. No	Date	Venue	No. of participants	
			Male	Female
1.	27.06.2019	Muthalamman Street, Kottivakkam Kuppam, Chennai District	115	162
2.	27.06.2019	Pattumedu, Srinivasapuram, Pattinappakkam, Chennai District	100	100
Total			215	262

Thiruvallur District**School Programmes**

Sl. No.	Date	Name of School / Place	No. of students	
			Boys	Girls
1.	28.06.2019	Municipal High School, Kaladipet, Thiruvotriyur, Thiruvallur District	55	49
2.	28.06.2019	Thiruvotriyur Municipal Primary School (South), Kaladipet, Thiruvotriyur, Thiruvallur District	54	54
Total			109	103

Village programmes

Sl.No.	Date	Venue	No. of participants	
			Male	Female
1.	28.06.2019	Dharmalinga Mudhaliyar Street, Ponnamanchery, Periyakavanam, Ponneri Taluk, Thiruvallur District	123	145
2.	28.06.2019	Main Road, Eliampedu, Ponneri Taluk, Thiruvallur District	187	198

Sl.No.	Date	Venue	No. of participants	
			Male	Female
3.	29.06.2019	Guduvanchery Panchayat, Minjur Block, Ponneri Taluk, Thiruvallur District	14	271
4.	29.06.2019	Sivan Koil, Kaatavur Panchayat, Arasur Post, Ponneri Taluk, Thiruvallur District	25	95
5.	29.06.2019	Chelliamman Koil, Arasur Panchayat, Ponneri Taluk, Thiruvallur District	40	75
Total			389	784



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KINDNESS KIDS – GO VEG PROGRAMME

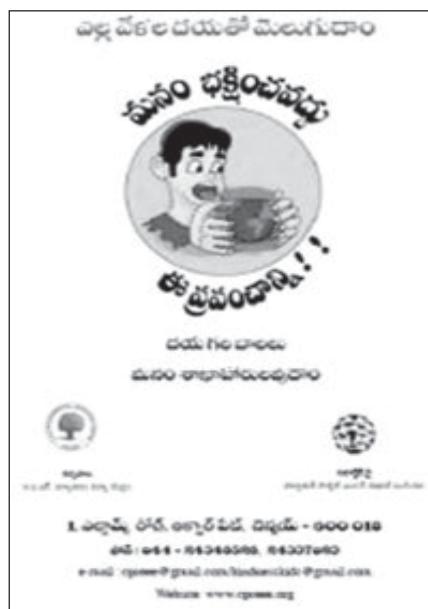
C.P.R. Environmental Education Centre (CPREEC) in collaboration with Humane Society International (HSI) is implementing the project Kindness Kids – A vegetarian outreach in schools.

The project was implemented in the states of Tamil Nadu, Andhra Pradesh, Karnataka and Odisha. The project aims to reach about 50,000 students.

A pamphlet on Go Veg was designed and prepared in English exclusively for the project. The pamphlet has been translated into vernacular languages to reach out to students in the above states. The languages are Tamil, Telugu, Kannada and Odiya.

Quantity of pamphlets printed:

Tamil	12,000
Telugu	3,000
Kannada	5,000
Odiya	5,000
English	25,000

**Tamil****Telugu**

Teacher's workshop

In order to reach out to students, workshop for teachers was organized in all the states. The teachers were deputed by the concerned Education Department.

S. No.	State/District	No. of prog.	No. of teachers
1.	Gudalur, The Nilgiris Tamil Nadu	1	38
2.	Khordha, Odisha	1	45
3.	Chennai, Tamil Nadu	1	76
4.	Tumakuru, Karnataka	1	100
5.	Vijayawada, Andhra Pradesh	1	32
		5	291



Teachers of Gudalur, Nilgiris



Teachers of Khordha, Odisha

Orientation programme for school students

Orientation programmes for school children were also conducted in all the project cities. The staff interacted with the students on the importance of kindness to animals. The students expressed their views on Kindness to Animals through paintings. The students were provided with a copy of the Go Veg pamphlet in vernacular language or English, a set of crayons, a pencil, sharpener and an eraser.

State	Tamil Nadu		Andhra Pradesh	Karnataka	Odisha	Total
City	Chennai & Kanchipuram	Nilgiris	Vijayawada	Tumakuru	Khordha	
No. of Schools	33	63	30	98	11	235
No. of students	10,222	10,047	10,000	10,023	10,000	50,292



**Orientation programme at Government Higher Primary School
Cluster Resource Centre, Begur Kunigal Taluk,
Tumakuru District, Karnataka**



**Students of O.A.S.P. 7th Batallion M.E. School, Khordha, Odisha
with the resource material given to them
as part of orientation programme**

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FOOD & ENVIRONMENT – EAT HEALTHY & GO GREEN

The project was implemented in the states of Andhra Pradesh, Karnataka, Odisha and Tamil Nadu with the financial support extended by Dharma Trust. A pamphlet on *Go Veg – Eat Healthy* has been designed and prepared in English and translated in to regional languages was distributed to the teachers and participants during the workshops conducted in the above states.

Details of workshops for teachers, teacher trainees and women

S.No.	Venue	Target group	No. of Participants
	Tamil Nadu		
1.	Hotel Park Inn, Coimbatore	Teachers	36
2.	Office of the Chief Educational Officer, Thiruvavur	Teachers	73
3.	CPREEC, Chennai	Teachers	76
4.	Kokkal – Sholur, Nilgiris	Women	30
5.	Holy Angel College of Education(Women), Mettupalayam, Coimbatore	Teacher trainees	98
6.	Gudalur, Nilgiris	Women	46
7.	Kotagiri, Nilgiris	Teachers	58
	Karnataka		
8.	Vijaya Chethana PU College, Mysore, Karnataka	Teachers	52
9.	Bellary District Block Resource Centre, Bellary, Karnataka	Teachers	62
10.	Government Higher Primary School,Horapet, Tumakuru, Karnataka	Teachers	89
11.	Vijaya School, K.R. Puram, Hassan, Karnataka	Teachers	97

S.No.	Venue	Target group	No. of Participants
12.	Sri Siddartha High School, Madhugiri, Karnataka	Teachers	71
13.	Government Higher Primary School, Kallambella, Sira Taluk, Tumakuru, Karnataka	Teachers	57
	Odisha		
14.	B.J.B. High School, Khordha	Teachers	60
15.	Bangur Sikshyaniketan, Malipada, Khordha, Odisha	Teachers	62
16.	Elementary Teachers Education Institute, Tangi, Khordha, Odisha	Teacher Trainees	151
17.	Balipatpur Refugee High School, Busandapur, Khordha, Odisha	Teachers	61
18.	Elementary Teachers Education Institute, Sakhigopal, Puri, Odisha	Teacher Trainees	112
	Andhra Pradesh & Telangana		
19.	KSRM Zilla Parishad Girls High School, Vijayawada, Andhra Pradesh	Teachers	61
20.	Zilla Parishad High School, Hyathnagar, Telangana	Teachers	49
21.	Zilla Parishad High School, Vishakapatnam, Andhra Pradesh	Teachers	53
22.	Zilla Parishad High School, Kukatpally, Telangana	Teachers	49
23.	Zilla Parishad High School, Zamidaggumilli, Krishna District, Andhra Pradesh	Teachers	44
24.	Bishop Grassi High School, Gunadala, Vijayawada, Krishna District, Andhra Pradesh	Teachers	49
	Total		1596



Workshop for teacher trainees at Mettupalayam in Coimbatore and Khordha, Odisha



News Clippings appeared in Odia News Papers

Workshops on Vegan Cooking

Vegan cooking (Alternatives to milk and milk products and demonstration of Vegan recipes) were organized at CPREEC by Ms. Minal Agrawal. A recipe booklet on Vegan cooking was distributed to all the participants.





Workshops on Vegan Cooking by Ms. Minal Agrawal at Chennai

- ❖ First class at Chennai on July 24, 2019 – 25 nos.
- ❖ Second class at Chennai on October 18, 2019 – 22 nos.
- ❖ Third class at Chennai on November 22, 2019 – 26 nos.



11

AWARENESS RAISING ON CLIMATE CHANGE AND BIODIVERSITY CONSERVATION IN ANDAMAN & NICOBAR ISLANDS

The project was carried out in the Union Territory of Andaman & Nicobar Islands funded by National Council for Science and Technology Communication (NCSTC), Department of Science & Technology, Government of India. Two workshops on Science and Technology communication of best practices and awareness raising on climate change and biodiversity conservation in Andaman & Nicobar Islands for teacher trainees followed by exposure visits were organized.

The resource kit comprising of a canvas bag, a cap were distributed to all the participants. Books on *Biodiversity* and *Climate Change* were also distributed to the participating teacher trainees.

The first workshop was organised for the teacher trainees of Tagore Government College of Education, Port Blair on March 5, 2020. Dr. Utpal Kumar Sar, Director, Department of Fisheries, Andaman & Nicobar Administration inaugurated the workshop and stressed the importance of protecting the fragile island ecosystem.

The following topics were handled in the technical session:

❑ **Basic concept of Climate and Climate Change with reference to current scenario**

Dr. P. Sudhakar, Executive Director, CPREEC

❑ **Basic concept of Water Sanitation and Hygiene (WaSH)**

Dr. K. Venkatesan, Head, Department of Home Science, Jawaharlal Nehru Rajkeeya Mahavidyalaya (JNRM), Port Blair

❑ **Vulnerability and adaptation to Climate Change for Andaman & Nicobar Islands**

Shri. Deb Kumar Bhadra, Technical Officer, (IIG), Shoal Bay

❑ **Biodiversity and Climate Change impact on Biodiversity**

Shri. Sukumar Das, Forest Ranger, Department of Environment & Forest, Andaman & Nicobar Administration, Van Sadan

The exposure visit was organized for the participants on March 6, 2020. Shri. Bishnu Charan Dey, Botanical Assistant, Botanical Survey of India (BSI), Port Blair and Shri. Sant Kumar, Junior Research Fellow, Zoological Survey of India (ZSI), Port Blair served as resource persons. The participants were taken to coastal areas of Carbyns Cove, Mangrove Patch of Carbyns Cove, Sippighat low lying areas, Botanical Garden, Nayashehar and Marine Interpretation Centre, Wandoor. The participants understood the importance of coastal vegetation particularly the mangroves and the ecosystem services of the mangroves, role of national parks and sanctuaries in mitigating climate change.

The second workshop was also organised for the teacher trainees of Tagore Government College of Education, Port Blair on March 12, 2020.

The following topics were handled in the workshop:

❑ **Basic concept of climate and climate change with reference to current scenario**

Shri. A. Gopal, Project Officer, CPREEC, Port Blair

❑ **Basic concept of Water Sanitation and Hygiene (WaSH)**

Dr. Avijit Roy, Deputy Director (H), DHS, Andaman & Nicobar Administration

❑ **Vulnerability and adaptation to Climate Change for Andaman & Nicobar islands**

Shri. Deb Kumar Bhadra, Technical Officer, (IIG), Shoal Bay

❑ **Biodiversity and Climate Change – Impacts and Concerns**

Shri. Sukumar Das, Forest Ranger, Department of Environment & Forest, Andaman & Nicobar Administration

The exposure visit was organized for the participants on March 13, 2020. Shri. Bishnu Charan Dey, Botanical Assistant, Botanical Survey of India (BSI), Port Blair and Shri. Sant Kumar, Junior Research Fellow, Zoological Survey of India (ZSI), Port Blair served as resource persons and interacted with the teacher trainees. The participants were taken to coastal areas of Carbyns Cove, Mangrove Patch of Carbyns Cove, Sippighat low lying areas, Botanical Garden, Nayashehar and Marine Interpretation Centre, Wandoor. The participants understood the importance of coastal vegetation particularly the mangroves and the ecosystem services of the mangroves, role of national parks and sanctuaries in mitigating climate change.

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LECTURES DELIVERED

- ❖ Dr. Nanditha Krishna, Honorary Director, delivered a lecture on 'Ecological Traditions of India to Protect Biodiversity and Achieve Sustainable Development' at the 12th National Conference on "Biodiversity and Sustainable Management" organized by Alpha Arts and Science College, Chennai, on **September 28, 2019**
- ❖ Dr. Nanditha Krishna, Honorary Director delivered the Inaugural address at the National Seminar on "Visionary Women in India: Champions of Peace and Non-Violence" organized by Department of History, Tourism and Travel Management, Ethiraj College, Chennai, on **October 14, 2019**.
- ❖ Dr. Nanditha Krishna, Honorary Director delivered a lecture on 'Groves and Gods' at the Seminar on Kalasamprekshana – 2019 organized by Kalakshetra Foundation, Chennai on **December 24, 2019**.
- ❖ Dr. Nanditha Krishna, Honorary Director delivered two lectures on 'Pan-Indian Traditions of Sacred Ecology' for the students of IIT, Gandhinagar, Gujarat, in connection with a course on Indian Knowledge Systems (IKS) on **February 12 and 13, 2020**.
- ❖ Dr. P. Sudhakar, Executive Director delivered a lecture on Sacred Grove conservation for a group of 25 French nationals and researchers visited our Centre on **November 25, 2019**, through UTSAV VOYAGES & DISCOVERIES.
- ❖ Dr. P. Sudhakar, Executive Director delivered a lecture on ethno botany to the students of Plant Biology and Plant Biotechnology. Women's Christian College on **February 20, 2020**.

RESEARCH PAPERS

- ❖ Dr. Nanditha Krishna's research paper titled '**Saving the Environment in the Light of Ancient Indian Thought**' published in the seminar proceedings on 'Vasudhaiva Kutumbakam – Relevance of India's Ancient Thinking to Contemporary Strategic Reality' organized by Vivekananda International Foundation, edited by Arvind Gupta and Arpita Mitra was published by Aryan Books International, New Delhi, 2020, p.151.

WORKSHOP ATTENDED

- ❖ Dr. P. Sudhakar, Executive Director and Mr. U.Thirunavukkarasu, Assistant Director participated in the first Training of Trainers (ToT) on Resource Efficiency and Circular Economy on **December 5-6, 2019** organized under the EU funded Resource Efficiency Initiative (EU-REI) in partnership with the Ministry of Environment, Forests and Climate Change (MoEFCC), at New Delhi.

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HERITAGE ONLINE ARTICLES ON NATURAL HERITAGE

The following articles were included under Natural Heritage in Heritage Online magazine.

Date	Title	Author
27.12.2019	Save Our Wetlands	Mr. R. Sabesh
06.01.2020	Ecological Heritage Sites of Chennai – Scrub Jungles	Mr. M. Amirthalingam
13.01.2020	Invasion of Alien Plant Species in the Nilgiris	Mr. M. Kumaravelu
20.01.2020	Andaman & Nicobar Islands – Endemic Diversity	Dr. T. Sundaramoorthy
27.01.2020	Olive Ridley Turtles	Ms. Jayanthi Rengun
03.02.2020	Consultation on “Orans/ Dev-Vans”: Deemed to be Forests Climate Change and Eba Links	Mr. Aman Singh
11.02.2020	Are big dams temples of Modern India?	Mr. B. Vijayasarathy
17.02.202	Forgotten Cereals	Dr. P. Sudhakar
24.02.2020	Cardamom – The Queen of Spices	Ms. Sandhya
02.03.2020	Know Your Animals...	Ms. Jayanthi Rengun
09.03.2020	Deep Sea Under Peril	Mr. R. Sabesh
16.03.2020	The Ecological Heritage Sites of Chennai – Wetlands	Mr. M. Amirthalingam

