C. P. R. ENVIRONMENTAL EDUCATION CENTRE

ANNUAL REPORT

APRIL 1, 2016 TO MARCH 31, 2017

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a Centre of Excellence of the Ministry of Environment, Forests & Climate Change, Government of India.
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INTRODUCTION

The entire activities of C.P.R. Environmental Education Centre (CPREEC) are in accordance with the Sustainable Development Goals (SDGs) of the United Nations.

Although the Ministry of Environment, Forests & Climate Change (MoEF&CC), Government of India did not sanction any grant for activities for the year 2016-17, as it has been granting funds since 1988, CPREEC was busy all through the year and carried out environmental activities for various stakeholders.

❖ To carry out the Swachh Bharat campaign of the government, the area around the Mylapore Kapaleeswarar temple was cleaned and the biodegradable and non-biodegradable wastes were segregated.

❖ CPREEC’s ENVIS Centre on ‘Conservation of Ecological Heritage and Sacred Sites of India’ has been extremely popular with visitors from all over the world. A new element – Traditional Ecological Knowledge has been added to the ENVIS subject.

❖ CPREEC implemented the All India Coordinated Research Project (AICRP) of MoEF&CC on Sacred Grove Ecosystem Services Assessment (SGESA) in inland plains of Tamil Nadu.

❖ CPREEC organized twenty National Nature Camping Programmes in the states of Tamil Nadu, Karnataka, Odisha and the Union Territory of Puducherry with the financial support of the Ministry of Environment, Forests & Climate Change, Government of India.

❖ As requested by the MoEF&CC, CPREEC prepared glossary of Key Terminologies on Climate Change and Glossary on Environment.

❖ Earth Day was celebrated in collaboration with the US Consulate, Chennai while International Day for Biological Diversity was celebrated at Ooty in the Nilgiris and Hyderabad. In all places, school students participated.

❖ National Youth Day celebrating the birthday of Swami Vivekananda was observed in Chennai and Port Blair in Andaman & Nicobar Islands.

❖ Rameswaram, being an important pilgrimage centre in the country, a sacred grove site has been established and is being maintained by CPREEC. The Centre’s exhibition on Green Pilgrimage for a Clean India was also put up at the Rameswaram Heritage Building.

❖ Several surveys and analysis of water and soil were carried out by CPREEC’s Environmental Laboratory.
CPREEC implemented a special project titled “Environmental History of India” funded by Indian Council of Historical Research (ICHR), Ministry of Human Resource Development, Government of India.

CPREEC organized training programmes on fodder cultivation, nursery raising and various budding, grafting techniques for the benefit of women under the STEP Project “Training in Nursery Raising, Fodder Development and Raising Fruit Saplings” funded by the Ministry of Women and Child Development, Government of India.

CPREEC organized capacity building workshops on “Island Biodiversity Conservation” for the pre-service teachers of Andaman & Nicobar Islands, funded by the National Biodiversity Authority (NBA), Government of India.

CPREEC also organized capacity building workshop cum field visits on “Biodiversity Conservation” for the teacher trainees of District Institute of Education & Training (DIETs) of Nilgiri Biosphere Reserve in the states of Tamil Nadu, Kerala and Karnataka, funded by the National Biodiversity Authority (NBA), Government of India.

CPREEC organized a seminar on ‘Is Chennai Prepared for the Monsoon?’ in view of the floods and cyclones that have been affecting the city.


CPREEC published two new books in Tamil for the Ministry of Women and Child Development, Government of India:

- Fodder cultivation, nursery raising and raising fruit saplings
- Women and Environment

CPREEC’s earlier publications were also reprinted.
❖ CPREEC set up a Nature Interpretation Centre at Lalacheruvu in Rajahmundry district; CPREEC designed and developed signages and fibre moulds for Nagaravanam at Tirupati and at Kurnool and Rajahmundry district headquarters.

❖ CPREEC’s Environmental Library is used as a referral library by research scholars and students.

All in all, it was a busy year, as usual, for C.P.R. Environmental Education Centre.

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**SWACHCH BHARAT**

As part of the Prime Minister’s “Swachh Bharat” campaign, CPREEC organized a cleaning campaign near the Mylapore Kapaleeswarar temple (a heritage site) involving the school students of Saraswathi Kendra Learning Centre for Children and The Grove School. The school students cleaned the area and segregated the bio-degradable and non-biodegradable waste and handed them over to the Solid Waste Management Division, Chennai Corporation.

Swachh Bharat campaign by the students of Saraswathi Kendra Learning Centre for children near Mylapore Kapaleeswarar temple (a heritage site) in Chennai
CPREEC’s ENVIS Centre 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 Centre 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 and Green Pilgrimage. A new element – Traditional Ecological Knowledge has been added to the ENVIS subject area from January 2017. The staff of CPREEC participated in the National Workshop of ENVIS Centres Summary Evaluation and Roll Out of the Revamped ENVIS Scheme held at Gandhi Nagar, Gujarat on March 17 and 18, 2017. A book on *Ecological Traditions of India – Jharkhand* Vol. 14 was released during the workshop. The programme is funded by MoEF&CC, Government of India.

During this year, the following activities were carried out:

<table>
<thead>
<tr>
<th>Subject area updates</th>
<th>342 topics were updated and uploaded in the website under various sacred elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>3 newsletters were published and uploaded in the website</td>
</tr>
<tr>
<td>Bibliography</td>
<td>99 abstracts were uploaded</td>
</tr>
<tr>
<td>News items</td>
<td>233 news items were updated in the website</td>
</tr>
<tr>
<td>Image</td>
<td>375 images were uploaded</td>
</tr>
<tr>
<td>Videos</td>
<td>76 videos were uploaded in the website for better user engagement</td>
</tr>
<tr>
<td>Glossary</td>
<td>10 terms were published in the website</td>
</tr>
<tr>
<td>Panels</td>
<td>3 on sacred plants</td>
</tr>
</tbody>
</table>
3

ALL INDIA COORDINATED RESEARCH PROJECT (AICRP) ON SACRED GROVE ECOSYSTEM SERVICES ASSESSMENT (SGESA) IN INLAND PLAINS OF TAMIL NADU

This Programme is implemented by CPREEC and the project is funded by MoEF&CC.

Details of the project study sites (sacred groves)

<table>
<thead>
<tr>
<th>Sacred Grove sites</th>
<th>Village</th>
<th>District</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ooraliyappan Grove</td>
<td>Asanur</td>
<td>Viluppuram</td>
<td>N11.37.053</td>
<td>E079.10.621</td>
</tr>
<tr>
<td>Aiyanan Grove</td>
<td>Edaichervai</td>
<td>Cuddalore</td>
<td>N11.24.320</td>
<td>E079.04.947</td>
</tr>
<tr>
<td>Komathuran (Kallanatham)</td>
<td>Thenmarkadu</td>
<td>Viluppuram</td>
<td>N11.41.972</td>
<td>E078.47.889</td>
</tr>
<tr>
<td>Aiyanan Grove</td>
<td>Thoppaiyan-kulam</td>
<td>Viluppuram</td>
<td>N11.41.537</td>
<td>E079.25.703</td>
</tr>
<tr>
<td>Muthumuniswarar Grove</td>
<td>Velleripattu</td>
<td>Viluppuram</td>
<td>N12.03.312</td>
<td>E079.24.407</td>
</tr>
<tr>
<td>Periyanna Aiyanan Grove</td>
<td>Veerapaiyangaram</td>
<td>Viluppuram</td>
<td>N11.32.459</td>
<td>E078.52.474</td>
</tr>
</tbody>
</table>

Prepared a boundary map of each study site using GPS readings and converting the points into polygons (boundaries); prepared by scanning and digitizing Survey of India (SOI) topo sheets; prepared a land use/land cover map by using remote sensing imageries/ Google Earth Pro imageries and mapped the social catchment area through PRA approach showing the villagers, communities and religious affiliates visiting a particular sacred grove.

Plant diversity

Regular field trips were made to catalogue all trees, lianas, shrubs and herbs. Assessed the biodiversity status of the selected SGs by adopting quadrat method and recorded 1594 species (which include 775 trees, 245 climbers/lianas, 151 shrubs, 87 herbs and 336 tree saplings were made from the qualitative survey conducted in the study sites). The status of biodiversity was worked out in different indices.
**Faunal biodiversity**

The inventory yielded a total of 35 species including 2 bee species, 6 butterfly species, 10 bird species, 7 reptiles and 10 mammals. The species includes (bees, butterfly, birds, amphibians, reptiles and mammals), their scientific name, common name and abundance in sacred groves in inland plains of Tamil Nadu.

**Non timber forest products as an ecosystem service**

A total of 88 plant species belonging to 74 genera and 38 families were enumerated in the six sacred groves.

**Medicinal plants as an ecosystem service**

There are 163 medicinal plants which are used by the local inhabitants for healing purposes.

**Pollination as an ecosystem service**

A study was conducted in all the six sites on the sacred groves found on the inland plains of Tamil Nadu and baseline information was collected about important pollinators in the sacred groves. Butterfly, bees, moths and fruit eating bats were found. The role of pollinators in providing much valued ecosystem services will highlight their important role in ecosystem functioning of SGs and surrounding agro-ecosystems.

**Cultural significance** of the sacred groves was also recorded.

The final report of the five year research project was compiled including photo documentation and detailed reporting.
NATIONAL NATURE CAMPING PROGRAMMES (NNCP)

CPREEC with the support of the Ministry of Environment, Forests & Climate Change (MoEF&CC), organized National Nature Camps (5 camps each) in the states of Tamil Nadu, Karnataka, Odisha and the Union Territory of Puducherry. All the nature camps were organized for NGC school students. The students were deputed by the concerned District Chief Education Officer. Resource persons were invited to interact with the students and explain the importance of nature conservation.

The first nature camp was inaugurated by Ms. Sreedevi, District Educational Officer, Gudalur Educational District on February 9, 2017. She stressed the need of such a nature education programme for the betterment of future generations. She explained about the personal health and hygiene and appealed to the campers to make use of the camp to learn to live with nature and protect natural resources.

Since the campers knew a little about the forests and their ecology they could understand the importance of conservation of nature and natural resources. People living on the fringes of the forest reserve experience a conflict with wildlife. These camps help the students to know more about the issue and also teach them how to avoid the conflict. Further, the campers took an oath to spread the importance of nature conservation and to co-ordinate with the Forest Department for better management of forests. Also they gave an assurance to avoid using plastic items at their school and village level. Finally, all the campers pledged to work as green guards and protect India’s natural wealth and make it greener.

Mudumalai Tiger Reserve, Tamil Nadu

Mudumalai Tiger Reserve is an ideal location for the National Nature Camping Programme and the campers were selected from the schools located on the fringes of Mudumalai Tiger Reserve and Nilgiri District. Most of the campers were selected from the Government and Government aAided schools located on the fringes of Mudumalai Tiger Reserve. The camping students were provided with writing pad, pen, and booklet on Nilgiri Biosphere Reserve and sun cap. Five camps were conducted in Mudumalai.
<table>
<thead>
<tr>
<th>Batch</th>
<th>Date</th>
<th>Boys</th>
<th>Girls</th>
<th>No. of Students</th>
<th>No. of Teachers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>February 9 to 11, 2017</td>
<td>52</td>
<td>-</td>
<td>52</td>
<td>4</td>
<td>56</td>
</tr>
<tr>
<td>2</td>
<td>February 14 to 16, 2017</td>
<td>-</td>
<td>51</td>
<td>51</td>
<td>5</td>
<td>56</td>
</tr>
<tr>
<td>3</td>
<td>February 16 to 18, 2017</td>
<td>52</td>
<td>-</td>
<td>52</td>
<td>3</td>
<td>55</td>
</tr>
<tr>
<td>4</td>
<td>February 28 to March 02, 2017</td>
<td>56</td>
<td>-</td>
<td>56</td>
<td>3</td>
<td>59</td>
</tr>
<tr>
<td>5</td>
<td>March 02 to 04, 2017</td>
<td>-</td>
<td>59</td>
<td>59</td>
<td>6</td>
<td>65</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>160</strong></td>
<td><strong>110</strong></td>
<td><strong>270</strong></td>
<td><strong>21</strong></td>
<td><strong>291</strong></td>
</tr>
</tbody>
</table>

**Nature camping students at Mudumalai Tiger Reserve**

**Bandipur Tiger Reserve, Karnataka**

Bandipur Tiger Reserve (BTR) is a major part of the Nilgiri Biosphere Reserve spread over 880 sq.km. in Karnataka State. The various types of forests such as semi-evergreen, dry deciduous, many types of biomes; bird diversity are other attractions for nature lovers in Bandipur Tiger Reserve. The Bandipur Tiger Reserve is an ideal location to learn the benefits of the forest eco system. Considering the importance and suitable site for National Nature camping, CPREEC conducted five national nature camps.

The nature camp was inaugurated by Mr. Heeralal, IFS, Chief Conservator of Forests and Field Director, Bandipur Tiger Reserve on **January 4, 2017**. Mr. Maradimani, IFS, Assistant Conservator of Forests, Bandipur Tiger Reserve also participated in the inaugural function.

The campers were given various activities like painting, writing essays and plays on conservation of nature and natural resources. They were asked to share their experiences and express it in drawings and other forms. The camping students gave
an assurance to avoid using plastic items at the school and village level and pledged to work as green guards and protect India’s natural wealth and make it greener.

**Odisha**

CPREEC organized five nature camps wherein 309 participants comprising of students and teachers from 32 schools took part in an exposure to different natural places in Odisha. School students were deputed by the concerned District Education Officers, Education Department, Government of Odisha. These visits include introducing indigenous flora and fauna, identifying native tree species, and discussing the impacts of ecosystem destruction and the need to protect wildlife. The natural place also hosts awareness camps that have the aim of motivating the students to take measures to safeguard the environment. The nature camp aims to foster increased communication, cooperation, and connection amongst a diverse group of students and adults while simultaneously connecting with and learning about the environment.

<table>
<thead>
<tr>
<th>Batch</th>
<th>Date</th>
<th>Boys</th>
<th>Girls</th>
<th>No. of students</th>
<th>No. of teachers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>January 04 to 06, 2017</td>
<td>20</td>
<td>30</td>
<td>50</td>
<td>4</td>
<td>54</td>
</tr>
<tr>
<td>2</td>
<td>January 10 to 12, 2017</td>
<td>24</td>
<td>26</td>
<td>50</td>
<td>4</td>
<td>54</td>
</tr>
<tr>
<td>3</td>
<td>January 16 to 18, 2017</td>
<td>32</td>
<td>18</td>
<td>50</td>
<td>4</td>
<td>54</td>
</tr>
<tr>
<td>4</td>
<td>February 6 to 8, 2017</td>
<td>25</td>
<td>52</td>
<td>3</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>February 8 to 10, 2017</td>
<td>26</td>
<td>34</td>
<td>60</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>129</strong></td>
<td><strong>133</strong></td>
<td><strong>262</strong></td>
<td><strong>17</strong></td>
<td><strong>279</strong></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Date</td>
<td>Camp Place/Name</td>
<td>No. of Participants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>--------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>February 06 – 08, 2017</td>
<td>Khordha (Jayadev Pitha and Balukhand Wildlife Sanctuary, Puri)</td>
<td>66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>February 18 – 20, 2017</td>
<td>Jharasuguda (Sambalpur Hirakud Dam, Debrigarh Wildlife sanctuary and Sambalpur Zoo)</td>
<td>70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>February 22 – 24, 2017</td>
<td>Bhadrak (Bhitarkanika National Park, Dangamal, Kendrapada)</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>February 22 – 24, 2017</td>
<td>Kendrapada (Bhitarkanika National Park, Gupti, Kendrapada)</td>
<td>61</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>February 25 – 27, 2017</td>
<td>Kandhamal (Daringibadi, Kotgarh Wildlife Sanctuary, Baliguda, Kandhamal)</td>
<td>52</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>309</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Puducherry Union Territory**

CPREEC in collaboration with the State Training Centre, Department of Education, Government of Puducherry organized five nature camps (3 camps at Auroville Botanical Garden and 2 camps at the Aaranya Forest & Sanctuary) for **256** school students of National Green Corps (NGC) schools in Puducherry and Karaikal.

The inaugural function of the nature camps was organized at the Auroville Botanical Garden on **January 19, 2017**. Mr. P. Boopathy, Lecturer, State Training Centre (STC) welcomed the chief guests, resource persons and the camping students. Dr. T. Sundaramoorthy, Assistant Director, CPREEC gave a brief introduction to the nature camp and explained the objectives of the camps. Mr. Paul Blanchflower, Director, Auroville Botanical Garden was the guest of honour and spoke to the students.

Mr. V. Ranganathan, Officer on Special Duty (OSD), State Training Centre, Department of Education, Government of Puducherry inaugurated the camp and delivered the inaugural address. He asked the camping students to be responsible citizens in protecting the natural environment. He said that the students could play a pivotal role in bringing out the desired change in society. He distributed camping kits to the camping students and asked the students to enjoy the camp and live in harmony with nature.

<table>
<thead>
<tr>
<th>Camp</th>
<th>Date</th>
<th>Camp Venue</th>
<th>Boys</th>
<th>Girls</th>
<th>Teachers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>January 19 to 21, 2017</td>
<td>Auroville Botanical Garden</td>
<td>-</td>
<td>50</td>
<td>5</td>
<td>55</td>
</tr>
<tr>
<td>2</td>
<td>January 19 to 21, 2017</td>
<td>Aaranya Forest &amp; Sanctuary</td>
<td>50</td>
<td>-</td>
<td>5</td>
<td>55</td>
</tr>
<tr>
<td>3</td>
<td>January 30 to February 01, 2017</td>
<td>Auroville Botanical Garden</td>
<td>32</td>
<td>19</td>
<td>4</td>
<td>55</td>
</tr>
<tr>
<td>4</td>
<td>January 30 to February 01, 2017</td>
<td>Aaranya Forest &amp; Sanctuary</td>
<td>26</td>
<td>29</td>
<td>5</td>
<td>60</td>
</tr>
<tr>
<td>5</td>
<td>February 01 to 03, 2017</td>
<td>Auroville Botanical Garden</td>
<td>50</td>
<td>-</td>
<td>5</td>
<td>55</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>158</strong></td>
<td><strong>98</strong></td>
<td><strong>24</strong></td>
<td><strong>280</strong></td>
</tr>
</tbody>
</table>
Nature camping students in groups involved in biodiversity study using Quadrat method at the Botanical Garden, Puducherry

Nature camping students on a nature walk at the Aaranya Forest & Sanctuary, Puducherry

All the students participated in group activities like painting, essay writing and drawing competition. The students created creatures by pasting dried leaves. The students were asked to share their experience and speak a few words. A questionnaire was also filled by the students. At the end of the day, participation certificates were distributed to all the camping students.

GLOSSARY OF ENVIRONMENTAL TERMS

As requested by the MoEF&CC for inclusion in the Ministry’s website, CPREEC has prepared a glossary comprising of

- Key Terminologies on Climate Change – 41 pages
- Glossary on Environment – 183 pages

It was submitted to the Adviser, MoEF&CC.
CELEBRATIONS

EARTH DAY CELEBRATIONS – APRIL 22

CPREEC in collaboration with the US Consulate, Chennai organized a tree planting event at our premises. The Consul General and the Honorary Director of CPREEC each planted a tree sapling and saplings of native species were distributed to the members of the Environmental Federation of India and the school students of Brotherhood Matriculation Higher Secondary School, Chennai. The school students were also provided with GLOBE Kit.

INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY – MAY 22

CPREEC’s Field office at Ooty organized a programme for youth at Nadugani Gene Pool, Gudalur in Nilgiris district. Shri. E.N. Manoharan, Range Office (i/c) Gene Pool, Nadugani, Gudalur, Nilgiris inaugurated the programme and addressed the participants. Smt. S.K. Gomathi, Curator, Gene Pool, Naduagani, Shri. V. Sivadass and Shri. F. Robert NGC Co-ordinator attended the programme and served as resource persons. The students were taken around the gene pool and made to understand the importance of biodiversity conservation and the need to protect native species.

CPREEC’s state office at Hyderabad organized a programme for school children on May 21 and 22, 2016. A total of 120 students from ten districts who had participated in the State government sponsored residential camps from 100 schools were taken around the Salivahana Park at Dilsukh Nagar in Hyderabad. Students were made to understand the importance of small creatures and birds in the web of life. Painting and essay writing competitions were organized and prizes distributed to the winning students.
NATIONAL YOUTH DAY CELEBRATIONS

Mr. A. Gopal, Project Officer, CPREEC Andaman & Nicobar Islands
addressing the youth on digital payments at Pahargaon village
in South Andamans

Every year, January 12th is observed as National Youth Day celebrating the birthday of Swami Vivekananda. CPREEC organized the programme at Pachaiyappa’s College, Chennai. Mr. Sanoj Kumar Potdar, Chief Manager, Punjab National Bank, Teynampet Branch, Chennai, briefed the students about digital payments and its services like cards (like prepaid card, debit card and credit card), Unified Payment Interface (UPI), e-wallet, Aadhaar Enabled Payment System (AEPS) and Unstructured Supplementary Service Data (USSD).

CPREEC’s office at Port Blair, Andaman & Nicobar Islands organized two awareness programmes for youth to commemorate National Youth Day. The programmes were organized at Pahargaon village and Pathergudda village in South Andaman. Mr. A. Gopal, Project Officer, CPREEC addressed the three basic digital components of digital financial services: a digital transactional platform, retail agents and the use by customers and agents of a device, usually a mobile phone, to transact via the platform.
CPREEC’s Environmental Laboratory obtained NABL Accreditation for analyzing 27 parameters in water and waste water during April 2016.

The onsite surveillance audit was carried out by NABL Lead Assessor and Observer during March 2017. The photometric parameters such as fluoride, nitrate, nitrite, iron, hexavalent chromium and phosphorus were included.

As part of NABL Accreditation, our laboratory participated in the Inter Laboratory Comparison (ILC) programme conducted for water and waste water by Vashinis Estest Lab, Chennai

The following analysis was carried out in our laboratory since April 2016.

❖ Analyzed 4 nos. of Adyar river water samples
❖ Ambient air quality survey was carried out at Guindy Industrial Estate, Madhya Kailash in Adyar and Alwarpet in Chennai Corporation
❖ Ambient air quality, water quality and noise level survey was carried out at the Guindy Industrial Estate area in Chennai
❖ Analyzed 7 nos. of soil samples for research purposes submitted by Presidency College, Chennai
❖ Analyzed 3 nos. of vermicomposting extract samples submitted by Justice Basheer Ahmed Sayeed College for Women, Chennai
❖ Collected 20 nos. of lake water samples from the following lakes in and around Chennai, namely, Adambakkam lake, Madipakkam lake, Narayanapuram lake, Pallavaram lake, Pallikkaranai lake, Perumbakkam lake, Porur lake, Sembakkam lake, Sithalapakkam lake, Sunnambukolathur lake and Velachery lake and analyzed the chemical and biological parameters.
❖ Analyzed 26 nos. of commercial water samples (tube well water, ground water and treated water) received from individuals in Chennai city
❖ Prepared 25 nos. of portable water testing kits for distribution to schools.
❖ Analyzed 7 nos. of e-waste contaminated extract solutions for research purposes submitted by the Madras Christian College, Chennai
❖ Analyzed 8 nos. of soil mixed with e-waste contaminated extract solutions for research purposes submitted by the Madras Christian College, Chennai
❖ Analyzed 1 no. of leaf material for lead content for research purposes submitted by the DG Vaishnav College, Chennai

The programmes were carried out of CPREEC’s own funds.
ENVIRONMENTAL EDUCATION

SACRED GROVE CONSERVATION

CPREEC has been restoring sacred groves since 1994. The sacred grove site at Rameswaram in Ramanathapuram district in Tamil Nadu is being maintained well. CPREEC has formed a rasi vanam, nakshatra vanam and medicinal plant garden. Casualty replacement of plants was carried out. A caretaker is looking after the site and maintaining the site. The programmes were supported financially by the C.P. Ramaswami Aiyar Foundation.

CPREEC’s exhibition on Green Pilgrimage for a Clean India (on Swachh Bharat) was put up at Rameswaram Heritage Building for the benefit of visitors and the general public.

ENVIRONMENTAL HISTORY OF INDIA

With financial support from the Indian Council of Historical Research (ICHR), Ministry of Human Resource Development, Government of India, CPREEC is implementing a special project titled “Environmental History of India”. The field of environmental history is relatively new and there are few comprehensive works on the subject. Thus this project will provide an understanding on the inter-relationship of environment and history from the ancient period to the modern period.

The Volume 1 on the topic Environmental History of India is underway.

STEP PROJECT

CPREEC was sanctioned a project by the Ministry of Women and Child Development, Government of India under Support to Training and Employment Programme for Women (STEP) to organize Training in Nursery Raising, Fodder Development and Raising Fruit Saplings among rural women in Kunnam Village, Kanchipuram District in the state of Tamil Nadu.

Training programmes on fodder cultivation, nursery raising and various budding, grafting techniques were organized. The women beneficiaries raised fodder in Kunnam village. Intermediary crops were also raised along with the fodder crops. After the plants attained the required growth in height and ideal for the livestock to consume, the women beneficiaries were provided with a sickle to harvest the fodder. A book in Tamil on the title of the project was specially prepared for distribution to the women.

In order to motivate the women beneficiaries to raise a kitchen garden
and to earn additional income, saplings of portia, pungam, guava, mango and lemon and seed varieties of cluster beans, ladies finger, bitter gourd and drumstick were distributed to all the women beneficiaries.

**CAPACITY BUILDING WORKSHOPS ON ISLAND BIODIVERSITY CONSERVATION**

CPREEC was sanctioned a project by the National Biodiversity Authority (NBA), Government of India for organizing Capacity Building workshops on “Island Biodiversity Conservation” for the pre-service teachers of Andaman & Nicobar Islands.

The main objective of the workshop was to motivate the teacher trainees to set an example to their students and involve themselves in biodiversity conservation, thereby protecting and safeguarding the pristine ecology of the Andaman & Nicobar Islands as they are bound to become teachers in the Islands itself on completion of their teacher training course.

The workshops were organized for 246 teacher trainees of the Tagore Government College of Education (TGCE), Port Blair and 151 teacher trainees of Dr. S. Radhakrishnan District Institute of Education and Training (DIET), Garacharma during the month of April 2016. All the participating teacher trainees of the workshops were taken on exposure visits (8 exposure visits) in batches to Carbyn Cove Mangrove Patch, Burmanallah Mangrove Patch, Chidiyatapu Reserve Forest, Biological Park, Chidyatapu, Sodakalan Wetland, Sippighat Wetland, Botanical Garden of the Botanical Survey of India, Nayashehar, Wandoor Marine National Park, Marine Interpretation Centre, Wandoor and Wandoor Mangrove Patch.

All the teacher trainees were provided with a resource kit comprising of a book on Biodiversity in English, scribbling pad, pen, pencil and an eraser.

For the first time, 397 teacher trainees got an opportunity to learn about the
biodiversity conservation aspects in detail. Refresher workshops for the participants after joining the service as teachers will be highly useful for the implementation of biodiversity conservation education.

**CAPACITY BUILDING WORKSHOPS ON BIODIVERSITY CONSERVATION FOR THE TEACHER TRAINEES OF DIETs OF NILGIRI BIOSPHERE RESERVE**

CPREEC received funds from the National Biodiversity Authority (NBA), Government of India for organising capacity building workshop cum field visits of one day duration on Biodiversity Conservation for the teacher trainees of District Institute of Education & Training (DIETs) in the states of Tamil Nadu and Karnataka.

In Kerala, two workshops were organised for the teacher trainees of Calicut University Teacher Education Centre (CUTEC) at Poomala in Sulthan Bathery, Wayanad and two workshops for the teacher trainees of Calicut University Teacher Education Centre (CUTEC) at Koduvayur, Palakkad, Kerala.

All the teacher trainees were provided with a resource kit comprising of a book on Biodiversity in English, scribbling pad, pen, pencil and an eraser.

CPREEC conducted the following workshops.
<table>
<thead>
<tr>
<th>Dates</th>
<th>DIET/ State</th>
<th>Name of the Sanctuaries / National Parks / Tiger Reserves</th>
<th>No. of teacher trainees</th>
<th>No. of Faculty Members</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 20, 2016</td>
<td>DIET, Perundurai, Erode, Tamil Nadu</td>
<td>Gundri, Sathyamangalam Tiger Reserve, Erode</td>
<td>46</td>
<td>4</td>
<td>50</td>
</tr>
<tr>
<td>December 21, 2016</td>
<td>DIET, Perundurai, Erode, Tamil Nadu</td>
<td>Gundri, Sathyamangalam Tiger Reserve, Erode</td>
<td>48</td>
<td>3</td>
<td>51</td>
</tr>
<tr>
<td>December 27, 2016</td>
<td>DIET, Kotagiri, Nilgiris, Tamil Nadu</td>
<td>Mudumalai Tiger Reserve, Nilgiris</td>
<td>34</td>
<td>4</td>
<td>38</td>
</tr>
<tr>
<td>December 28, 2016</td>
<td>DIET, Kotagiri</td>
<td>Mudumalai Tiger Reserve, Nilgiris</td>
<td>25</td>
<td>9</td>
<td>34</td>
</tr>
<tr>
<td>January 19, 2017</td>
<td>DIET, Mysore, Karnataka</td>
<td>Bandipur Tiger Reserve</td>
<td>30</td>
<td>4</td>
<td>34</td>
</tr>
<tr>
<td>March 21, 2017</td>
<td>Calicut University Teacher Education Centre (CUTEC), Poomala Sulthan Bathery, Kerala</td>
<td>Wayanad Wildlife Sanctuary, Wayanad</td>
<td>47</td>
<td>2</td>
<td>49</td>
</tr>
<tr>
<td>March 22, 2017</td>
<td>Calicut University Teacher Education Centre (CUTEC), Poomala Sulthan Bathery, Kerala</td>
<td>Wayanad Wildlife Sanctuary, Wayanad</td>
<td>28</td>
<td>3</td>
<td>31</td>
</tr>
<tr>
<td>Dates</td>
<td>DIET/ State</td>
<td>Name of the Sanctuaries / National Parks / Tiger Reserves</td>
<td>No. of teacher trainees</td>
<td>No. of Faculty Members</td>
<td>Total</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
<td>-------------------------</td>
<td>------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>March 27, 2017</td>
<td>Calicut University Teacher Education Centre (CUTEC), Koduvayur, Palakkad, Kerala</td>
<td>Kava Forest, near Malampuzha Dam, Palakkad</td>
<td>41</td>
<td>3</td>
<td>44</td>
</tr>
<tr>
<td>March 28, 2017</td>
<td>Calicut University Teacher Education Centre (CUTEC), Koduvayur, Palakkad, Kerala</td>
<td>Kava Forest, near Malampuzha Dam, Palakkad</td>
<td>49</td>
<td>3</td>
<td>52</td>
</tr>
</tbody>
</table>

|                  | **Total**                                                                 |                                                           | 348                     | 35                     | 383   |

**DIET Mysore, Karnataka**  **CUTEC, Koduvayur, Palakkad, Kerala**
WIPRO’s EARTHIAN PROGRAMME

Training Teachers

A total of twenty (20) workshops for teachers on “Education for Sustainable Development and Biodiversity Conservation” were organized in the states of Tamil Nadu, Kerala, Karnataka, Goa, Andhra Pradesh, Telangana, Odisha and the Union Territories of Puducherry and Andaman & Nicobar Islands.

The aim of the teachers’ orientation programmes is to promote sustainability thinking and initiate them to form student project groups. The teachers on completion of training will initiate the student groups on environmental activities to address the environmental challenges of our country. The groups of students will be active over the year in the schools. Supportive resource materials were also provided to the teachers and students.

<table>
<thead>
<tr>
<th>State/UTs</th>
<th>Place</th>
<th>Date of workshop</th>
<th>Venue</th>
<th>Schools</th>
<th>Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamil Nadu</td>
<td>Erode</td>
<td>30 June 2016</td>
<td>Mayura Karthikeyan Matriculation Higher Secondary School, Chithode, Erode</td>
<td>32</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Chennai Greater Chennai Thiruvallur</td>
<td>08 July 2016</td>
<td>CPREEC Convention Centre, Chennai</td>
<td>61</td>
<td>63</td>
</tr>
<tr>
<td>State/UTs</td>
<td>Place</td>
<td>Date of workshop</td>
<td>Venue</td>
<td>Schools</td>
<td>Teachers</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------------</td>
<td>------------------</td>
<td>------------------------------------------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>Karnataka</td>
<td>Tumakuru</td>
<td>08 July 2016</td>
<td>DIET, Tumakuru</td>
<td>44</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Hassan</td>
<td>04 August 2016</td>
<td>SGR School Campus, Hassan</td>
<td>38</td>
<td>42</td>
</tr>
<tr>
<td>Kerala</td>
<td>Palakkad</td>
<td>15 July 2016</td>
<td>Hotel Gazana, Palakkad</td>
<td>21</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Thiruvanan-thapuran</td>
<td>09 August 2016</td>
<td>Museum Hall, Thiruvanantha-thapuran</td>
<td>36</td>
<td>50</td>
</tr>
<tr>
<td>Puducherry</td>
<td>Puducherry</td>
<td>28 July 2016</td>
<td>State Training Centre, Department of Education</td>
<td>54</td>
<td>54</td>
</tr>
<tr>
<td>Andhra Pradesh</td>
<td>Vishakapatnam</td>
<td>14 July 2016</td>
<td>Sri Chaithanya School, Vishakapatnam</td>
<td>106</td>
<td>110</td>
</tr>
<tr>
<td>State/UTs</td>
<td>Place</td>
<td>Date of workshop</td>
<td>Venue</td>
<td>Schools</td>
<td>Teachers</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------</td>
<td>------------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>Telangana</td>
<td>Guntur, Amaravathi</td>
<td>20 July 2016</td>
<td>District Common Examination Hall, Urdu High School, Guntur</td>
<td>91</td>
<td>92</td>
</tr>
<tr>
<td>Telangana</td>
<td>Hyderabad</td>
<td>03 August 2016</td>
<td>Zilla Parishad High School, Saroornagar, Ranga Reddy District</td>
<td>70</td>
<td>76</td>
</tr>
<tr>
<td>Andaman &amp; Nicobar</td>
<td>Port Blair</td>
<td>21 July 2016</td>
<td>Tagore College of Education, Port Blair</td>
<td>43</td>
<td>60</td>
</tr>
<tr>
<td>Andaman &amp; Nicobar</td>
<td>Wimberly-gunj</td>
<td>26 July 2016</td>
<td>Office of the Deputy Education Officer, Training Hall, Wimberlygunj</td>
<td>37</td>
<td>60</td>
</tr>
<tr>
<td>Odisha</td>
<td>Cuttack</td>
<td>06 August 2016</td>
<td>Cuttack Collegiate High School, Cuttack</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Odisha</td>
<td>Jagatsinghpur</td>
<td>31 July 2016</td>
<td>Markanda High School, Jagatsinghpur</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td>Goa</td>
<td>Panaji</td>
<td>23 September 2016</td>
<td>Goa Chamber of Commerce &amp; Industries, Panaji</td>
<td>59</td>
<td>63</td>
</tr>
<tr>
<td>Goa</td>
<td>Panaji</td>
<td>23 September 2016</td>
<td>Goa Chamber of Commerce &amp; Industries, Panaji</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20 workshops</strong></td>
<td></td>
<td><strong>944</strong></td>
<td><strong>1078</strong></td>
</tr>
</tbody>
</table>
Orientation programme for students

Orientation programmes on “Education for Sustainable Development and Biodiversity Conservation” were organized for school students and they were advised to perform group activities on two thematic areas i.e. water and biodiversity in the states of Tamil Nadu, Kerala, Karnataka, Goa, Andhra Pradesh, Telangana, Odisha and the Union Territories of Puducherry and Andaman & Nicobar Islands as detailed below:

and to honour the sincere efforts of school students who submitted project reports on Water and Sustainability and Biodiversity Conservation. In total, twelve regional events were organized in all the States and Union Territories where we organized teachers and students orientation programmes. All the school students who have submitted their project reports were given participation certificates and the regional winners were honoured with mementos and shawls.

<table>
<thead>
<tr>
<th>State</th>
<th>City</th>
<th>No. of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerala</td>
<td>Palakkad</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>Thiruvanandapuram</td>
<td>25</td>
</tr>
<tr>
<td>Tamil Nadu</td>
<td>Nilgiris</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>Erode</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Chennai, Thiruvallur &amp; Kanchipuram</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Cuddalore</td>
<td>172</td>
</tr>
<tr>
<td>Goa</td>
<td>North and South Goa</td>
<td>127</td>
</tr>
<tr>
<td>Karnataka</td>
<td>Tumakuru</td>
<td>305</td>
</tr>
<tr>
<td>Odisha</td>
<td>Cuttack &amp; Jagatsinghpur</td>
<td>122</td>
</tr>
<tr>
<td>Andhra Pradesh</td>
<td>Guntur &amp; Visakhapatnam</td>
<td>325</td>
</tr>
<tr>
<td>Telangana</td>
<td>Hyderabad</td>
<td>164</td>
</tr>
<tr>
<td>Andaman &amp;</td>
<td>Port Blair &amp; Wlmerlygunj</td>
<td>276</td>
</tr>
<tr>
<td>Nicobar Islands</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Puducherry</td>
<td>Puducherry</td>
<td>183</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>2099</strong></td>
</tr>
</tbody>
</table>

Regional recognition events

Regional recognition events were organized in the entire CPREEC network States and Union Territories to recognize

National Award

Four schools from the CPREEC network won the national award of Earthian 2016 and were awarded at the national ceremony held at WIPRO, Bengaluru.
The schools are...

❖ L’ecole Chempaka International, Silver Rocks, Edavacode, Sreekariyam, Thiruvananthapuram, KERALA

❖ Kamaraj English Medium School, Sr. Sec. School, Brookshabad, Port Blair, ANDAMAN & NICOBAR ISLANDS

❖ Sree Gurukul, Siddarameshwara Extension, Batawadi, Tumakuru, KARNATAKA

❖ Mahalakshmi High School, Kudne, Sanquelim, GOA

National level winners from CPREEC network schools of WIPRO Earthian Awards at Bengaluru

The programmes were funded by M/s. WIPRO, Bangalore.
GO-VEGETARIAN PROGRAMME FOR SCHOOL STUDENTS

To popularize the benefits of vegetarianism among school students, CPREEC implemented a programme titled Go-Vegetarian programme among school students of Std VI, VII and VIII from various schools in the Nilgiris, Chennai, Tumakuru, Guntur and Cuttack funded by HSI – India. CPREEC covered 50,115 students in the above cities.

Generation and printing of resource materials

The following resource materials were printed in English and other regional languages like Tamil, Telugu, Kannada and Odiya for distributing to the participating students.

❖ Pledge card on being vegetarian
❖ Pamphlet on Kindness Kids
❖ Activity Sheets
❖ Wall Papers to participating schools

Students were asked to express their views on “Animal Welfare” in art form for which the students were provided with the required stationery.

❖ Crayons
❖ Pencil
❖ Sharpener
❖ Eraser
❖ Drawing Sheet/ Art Sheet
❖ Pouch to hold the above

School programmes

The programmes were conducted in collaboration with the concerned State Education Departments. The schools were identified by the District Education Office and prior permission was obtained to conduct the programmes in the identified schools in the above cities.

The staff members visited the schools and interacted with the school authorities to carry out the programmes on vegetarianism, animal welfare, etc. A PowerPoint presentation on Animals in Distress followed by a talk was organized for school children. The students were also shown a video film titled “Where is our food coming from?”.

The students enthusiastically expressed their views while drawing on vegetarianism and being kind to animals. The drawing sheets were collected from the school students.

The details of programmes completed are given below:

<table>
<thead>
<tr>
<th></th>
<th>Chennai Tamil Nadu</th>
<th>Nilgiris Tamil Nadu</th>
<th>Guntur Andhra Pradesh</th>
<th>Tumakuru Karnataka</th>
<th>Cuttack Odisha</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of schools covered</td>
<td>30</td>
<td>83</td>
<td>28</td>
<td>45</td>
<td>20</td>
</tr>
<tr>
<td>No. of students covered</td>
<td>10,009</td>
<td>10,011</td>
<td>10,045</td>
<td>10,050</td>
<td>10,000</td>
</tr>
</tbody>
</table>
Pledge Card

The pledge cards signed by the students with the consent of their parents / teachers on becoming vegetarian were collected in all the cities.

<table>
<thead>
<tr>
<th>Cities covered</th>
<th>No. of Pledge Card distributed</th>
<th>No. of Pledge Card received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chennai, Tamil Nadu</td>
<td>9,200</td>
<td>4,500</td>
</tr>
<tr>
<td>Nilgiris, Tamil Nadu</td>
<td>5,000</td>
<td>3,265</td>
</tr>
<tr>
<td>Guntur, Andhra Pradesh</td>
<td>8,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Tumakuru, Karnataka</td>
<td>5,500</td>
<td>5,220</td>
</tr>
<tr>
<td>Cuttack, Odisha</td>
<td>10,000</td>
<td>9,120</td>
</tr>
</tbody>
</table>

Programme at St. Joseph’s Girls
High School, Odisha

Programme at Zilla Parishad
High School, Pedavadlapudi,
Guntur district, Andhra Pradesh

Programme for the students of
St. Antony’s High School, Kotagiri,
Nilgiris
HUMANE EDUCATION PROGRAMMES

Funded by the Animal Welfare Board of India, Government of India, CPREEC organized a series of workshops for teachers on Kindness to Animals in the state of Tamil Nadu as detailed below: The teachers were deputed by the Chief Education Officer, Villupuram Educational District, Tamil Nadu.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>District &amp; State</th>
<th>Date</th>
<th>Venue</th>
<th>No. of teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tamil Nadu</td>
<td></td>
<td>Villupuram, Tamil Nadu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamil Nadu</td>
<td></td>
<td>Tamil Nadu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Educational</td>
<td></td>
<td>Villupuram, Tamil Nadu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Educational</td>
<td></td>
<td>Villupuram, Tamil Nadu</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>196</td>
</tr>
</tbody>
</table>

Workshop for teachers on Humane Education at Tindivanam Educational District, Villupuram District, Tamil Nadu
Vikaspedia is a national level initiative through India Development Gateway under the Department of Electronics & Information Technology (DeitY), Ministry of Communication and Information Technology, Government of India and it is executed by the Centre for Development of Advanced Computing (C-DAC), Hyderabad.

As a state nodal agency, CPREEC maintains the Vikaspedia web portal in Tamil, collects, collates, reviews, moderates and enriches the portal with useful information related to state specific welfare programmes of the Government of Tamil Nadu. It also popularizes the web portal through various outreach activities by organizing capacity building workshops among various stakeholders, using the social media, etc.

**Digital India Initiative:** In order to popularize the Digital India initiative of the Government of India, CPREEC organized community level events. A Digital India workshop was organized at Puducherry University; workshop for Advocates at the Madras High Court; the workshop for staff members of the Office of the Collectorate and Tahsildars at Tiruvannamalai; the workshop for agriculture students and lecturers of Thanthai Roever Institute of Agriculture and Rural Development (TRIARD) at Perambalur and the workshop for members of Common Service Centres (CSCs) of the Government of Tamil Nadu at Tiruppattur.

**Digital Payments**

(Digital Financial Services)

Considering the urgency of financial transformation of the country and Government of India’s aggressive campaigning of Digital Financial Services, CPREEC, made its efforts all over the country in educating the masses about the importance of digital payments under the Vikaspedia outreach programmes in schools, colleges and communities.

Awareness through traditional folk art programmes *(Therukooththu)* was performed at Puducherry Union Territory.

Digital Payments Programme at Government Senior Secondary School, Bhathu Basthi, Port Blair, Andaman & Nicobar Islands
Cuddalore and Villuppuram districts in Tamil Nadu from December 27 to 31, 2016. In total, 20 programmes were conducted reaching out to 13,585 participants comprising of DIET students, youth and general public.

**Outreach programmes:** Six District Level Programmes were carried out as detailed below:

<table>
<thead>
<tr>
<th>District</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiruvannamalai</td>
<td>89</td>
</tr>
<tr>
<td>Perambalur</td>
<td>81</td>
</tr>
<tr>
<td>Kanyakumari</td>
<td>79</td>
</tr>
<tr>
<td>Madurai</td>
<td>101</td>
</tr>
<tr>
<td>Namakkal</td>
<td>160</td>
</tr>
<tr>
<td>Theni</td>
<td>109</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>619</strong></td>
</tr>
</tbody>
</table>

**Newsletters:** Monthly newsletters in Tamil were uploaded in the web portal.

**WebPages:** A total of 6,430 pages were uploaded in the Web portal on various domains

**Videos:** 102 videos were uploaded in the portal for the benefit of the visitors

**YouTube:** 100 videos were added in the Vikaspedia YouTube channel

**Resource materials:** Five illustrative posters and stickers were designed, developed and circulated for popularization of the portal among the stakeholders.

**Community Radio events:** Five Community Radios were tapped for dissemination of information on Vikaspedia Portal.

**Community level events:** Community level events to popularize Vikaspedia were organized for the students of the Madras Christian College on February 7, 2017 and Rural Participatory Conclave for farmers of Uthangarai in Krishnagiri district on March 3, 2017.

**Regional event:** Regional level Vikaspedia volunteer’s workshop was organized in Chennai on February 24, 2017
**Review of articles:** So far, 1,269 articles have been reviewed

**Mass media campaigns:** Whatsapp groups with over 800 members were created for popularization and volunteerism.

**Vikaspedia** – Rural participatory conclave for farmers at Uthangarai in Krishnagir District

**Vikaspedia district level workshop in Tiruvannamalai in Tamil Nadu**
IS CHENNAI PREPARED FOR THE MONSOON?

CPREEC organized a seminar on Is Chennai Prepared for the Monsoon? at Chennai on Saturday, October 8, 2016. Dr. S.R. Ramanan, Former Director, Area Cyclone Warning Centre, Regional Meteorological Centre spoke on Rainfall Patterns of Chennai and Prof. S. Janakarajan, Visiting Fellow, Madras Institute of Development Studies spoke on Status of storm water drains of Chennai. A discussion session was organized at the end of the seminar and both the speakers answered the queries raised by the participants of the seminar. The seminar was conducted out of CPREEC’s own funds.

Prof. S. Janakarajan, Visiting Fellow, Madras Institute of Development Studies, Chennai answering the queries raised by participants of seminar on “Is Chennai Prepared for the Monsoon?”
CPREEC’s Field Office in the Andaman & Nicobar Islands organized a National Seminar on **Scientific and Technical Terminology in Biodiversity of Andaman & Nicobar Islands** on November 15 and 16, 2016. The seminar was sponsored by the Commission for Scientific and Technical Terminology (CSTT), Department of Higher Education, Ministry of Human Resource Development, Government of India. The seminar was organized at the Tagore Government College of Education, Port Blair. Shri. M.S. Negi, IFS, Principal Chief Conservator of Forests (Wildlife) inaugurated the workshop.

A total of 100 participants from various departments of the Andaman & Nicobar Administration, educational institutions and research institutions attended the workshop. Dr. S. Dam Roy, Director, ICAR – Central Island Agricultural Research Institute (CIARI) delivered the valedictory address and distributed certificates to the participants.
PUBLICATIONS

CPREEC brought out the following publications:

❖ CPREEC’s quarterly newsletter – ECONEWS (e-version)
❖ Book on Biodiversity was updated and reprinted
❖ Pamphlet on Fodder cultivation, nursery raising and raising fruit saplings in Tamil
❖ Books on Fodder cultivation, nursery raising and raising fruit saplings and Women and Environment in Tamil
❖ A disc on Nursery raising, tree planting and after care in Tamil

AWARD

Dr. Nanditha Krishna, Honorary Director, C.P.R. Environmental Education Centre received the “Rotary Madras Day Award” in recognition of her distinguished service in promoting the rich heritage of Chennai, at the meeting of the Rotary Club of Adyar, on August 16, 2016, at Madras Boat Club, Chennai.
CPREEC has been sanctioned a project by the Andhra Pradesh Forest Department to design and develop a Nature Interpretation Centre at Lalacheruvu in Rajahmundry district.

CPREEC also designed and developed signages and fibre moulds for Nagaravanam at Tirupati and at Kurnool and Rajahmundry district headquarters.
CPREEC library has a collection of 6,789 books since its inception in the year 1989. The library received 19 complimentary books and purchased 4 new books. The subjects covered vary from Environmental Science, Ecology, Forestry, Biodiversity, Botany, Zoology, Energy, Environmental Law, Environmental Economics, Sustainable Development, Environmental History, Management, Medicinal Plants, Pollution, Water Resources, Women’s Studies, Wildlife, Soil Science, etc. The books are classified under Dewey Decimal classification as prescribed for libraries. All the books are maintained in the Auto Lib software systems installed in the library to gain quick access to the books.

Newsletters published by ENVIS Centres in the country are received as complimentary to the library. Newsletters of research and academic institutions are also received by the library. The ‘Kindle’ for downloading e-books is maintained at the library.

Utilization of the library

CPREEC’s environmental library is used as a referral library by research scholars from universities, college and school students. They refer to our library for preparing their thesis. Academicians and bureaucrats also refer our library for their literary work. CPREEC serves as a source hub for varied subjects like the environmental history of India, environmental science, sacred groves, floral and faunal diversity, wetland conservation, water resources, tribal welfare, urban planning, town planning, smart cities, waste segregation and management, biomedical waste management, e-waste management, animal welfare, etc.

Documenting press clippings

As in the previous years, newspaper clippings on various environmental issues are scanned and documented for references. News clippings on the activities of CPREEC are also being maintained. News articles on various current issues that has been safeguarded are also referred to by avid readers who visit our library. The role of print media in environmental conservation is very vital. In order to solve certain environmental problems in their area, the general public approaches the media to highlight the prevailing issues and find appropriate solutions.
Dr. Nanditha Krishna presided over the function ‘Mathru Devo Bhava’, an evening that celebrates revered mothers, organized by Lalitha Arts and Music Promotion Social Trust (LAMPS), Madurai, on April 16, 2016.

Mr. U. Thirunavukkarasu attended the Exhibition on Eco Restoration Activities of the Chennai Rivers Restoration Trust on June 06, 2016.

Dr. Nanditha Krishna participated and delivered a talk on ‘Cultural and Ethical Values in Hindu Traditions’ at the International seminar on Science and Religion Cooperation for Environmental Care (ISREC): Rethinking “Laudato si”, held in the Shrine of Torreciudad, Spain, on June 20 and 21, 2016.

Mr. U. Thirunavukkarasu delivered a guest lecture on ‘Climate Change’ for the members of Women’s India Association (WIA) at the premises of WIA, Adyar, Chennai, on June 25, 2016.

Dr. Nanditha Krishna delivered the valedictory address at the National Seminar on ‘Environmental and Ecological Awareness in Ancient India’ organized by The Kuppuswami Sastri Research Institute, Chennai, on July 9, 2016.

Mr. U. Thirunavukkarasu attended the National State Nodal Agency Experience sharing and review meeting on July 14, 15 and 16, 2016 at CDAC, Hyderabad.

Mr. U. Thirunavukkarasu delivered a guest lecture on ‘Environmental Issues’ for the students of Stella Maris College, Chennai on July 25, 2016.

Dr. Nanditha Krishna was in conversation with the author Dr. C.K. Gariyali, I.A.S., (retd.) of the book ‘My Beautiful Journey – From Kashmir to Kanyakumari’ on September 1, 2016, at 6.30 p.m. organized by the Madras Book Club and Amethyst.

Dr. P. Sudhakar, participated, chaired a session and presented a paper in the international conference for transforming education for children and youth organized by the Centre for Environment Education (CEE), at Ahmedabad on September 16, 17 & 18, 2016.

Dr. Nanditha Krishna delivered a lecture on “Paradise Lost!? Changing Water Cultures in Chennai and Tamil Nadu” at the Chennai Water Forum, organized by Goethe Institut, Max Mueller Bhavan, at Rukmini Arangam, Kalakshetra Foundation, Chennai, on October 6, 2016.
Dr. Nanditha Krishna delivered the welcome address on 50 Golden Years of The C.P. Ramaswami Aiyar Foundation on October 15, 2016. Hon’ble Chief Justice, Shri. T.S. Thakur, was the Chief Guest; Dr. Gopalkrishna Gandhi presided over the function; Justice Smt. Prabha Sridevan participated.

Dr. Nanditha Krishna participated and presented an introductory note on ‘Hinduism and the Environment’ at the workshop on ‘Religion and Climate Change in Cross-Regional Perspectives’ organized by the American University’s Center for Latin American and Latino Studies, co-sponsored and hosted by the Observer Research Foundation, in New Delhi, on December 8 & 9, 2016.

Dr. T. Sundaramoorthy served as a Judge – Oratorical Competitions for school students organized by Science City on January 11, 2017.

Mr. U. Thirunavukkarasu attended CAG Founders’ Day lecture on ‘Urban Water Predicament: a way forward’ by Dr. Mihir Shah, Former Member, Planning Commission of India on February 11, 2017 at Anna Institute of Management, Chennai.

Dr. Nanditha Krishna participated and presented an introductory note on ‘Hinduism and the Environment’ at the workshop on ‘Religion and Climate Change in Cross-Regional Perspectives’ organized by the American University’s Center for Latin American and Latino Studies, co-sponsored and hosted by the Observer Research Foundation, in New Delhi, on December 8 & 9, 2016.

RADIO TALKS

Mr. U. Thirunavukkarasu prepared a script of ‘Vikaspedia dialogue’ – 25 questions for the Panel Presentation (Vallunar Parvai) by team members of Vikaspedia Tamil in VIT Community Radio, Vellore on November 09, 2016, at 11.00 hrs.

Mr. U. Thirunavukkarasu gave a Talk on ‘Vikaspedia Tamil – the role of state nodal agency in Tamil Nadu’, broadcasted on February 6, 2017, 08.00 to 08.30 p.m in all primary channels of All India Radio in Tamil Nadu & Puducherry, Kumari FM and Karaikal FM under the programme “Thuraidorum Bharatham” covering the entire state of Tamil Nadu.
Press Clippings

PORT ELIZABETH, APRIL 12/ C.P.R.E.C. organised a one day Capacity Building Workshop on Island Biodiversity Conservation held at TGCE. The workshop was organised at the college premises on April 12, 2016. The main objective of the workshop was to motivate the teacher-trainers to identify the problems faced by teachers themselves in the field and improve themselves in biodiversity conservation through protecting and safeguarding the pristine ecology of the Andaman & Nicobar Islands. The workshop was a success and the participants were very much satisfied with the programme. At the end of the workshop, the teachers were given a certificate of participation.

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Capacity Building Workshop on Island Biodiversity Conservation held at TGCE

The workshop was opened by the Director of the workshop, Mr. Arum Kumar Dineshwar, Scientist, C.P.R.E.C. Mr. A. Ganapathy, Project Officer, C.P.R.E.C. gave an introduction to the workshop. Mr. Yogesh, Chief Conservator of Forest (Wildlife), Department of Environment & Forests, Andaman & Nicobar Administration, inaugurated the workshop and delivered the inaugural address. The important keynote address of the programme was given by Mr. Arum Kumar Dineshwar. Mr. Arum Kumar Dineshwar is the Director of the workshop. The teachers were given a certificate of participation at the end of the workshop. The teachers were very much satisfied with the programme.
World Bio-diversity Day celebrated at Gudalur

B. RAVICHANDRAN | DC
OOTY, MAY 23

The CPR Environmental Education Centre (CPREEC) here organised a programme at Nadugani near Gudalur on Monday to commemorate World Biodiversity Day.

Speaking on the occasion, Mr. M. Kumaravelu, field officer of CPREEC said that biodiversity is essential for the survival of every species, as each species is linked to another in a fragile web of life. These form a food chain that links food producers to consumers and maintains ecosystem diversity. There are several food chains, which depending on the environment could be simple or complex. But all food chains are fragile, and if even one link is broken, it sets off a series of reactions that could cause the collapse of the ecosystem. He stated that the Nilgiri Biosphere Reserve (NBR), the first of its kind in the country and known for its rich biodiversity, comprises substantial un-spoilt areas of natural vegetation ranging from dry scrub to evergreen forests and swamps thus contributing to the highest biodiversity.

The altitude and climatic gradient support and nourish different vegetation types, he explained. "Moist and semi-evergreen, thorn, scrub forests, shola grasslands and swamps are major parts of the NBR. Sholas and grasslands play a vital role in protecting water resources and supplying water round the year to the plains. It is high time that people realize the significance behind conserving bio-diversity in their nearby habitations to maintain the ecological balance," he added.

Workshop on environmental issues held

PORT BLAIR, JULY 22 / C.P.R. Environmental Education Centre in collaboration with the Science wing of directorate of education and WIPRO - Earthian organised a daylong workshop on 21st July, at Tagore Govt. College of Education, here. The workshop was inaugurated by Mr. Agni Mitra IPS, Director, Department of Science and Technology, A&N Administration. In his inaugural address, he pointed out the environmental issues of these islands, climate change, problems of biodiversity loss and educators' role in conservation, Mr. Mammen Thomas, Dy. Director Education (Sc.), Directorate of Education was guest of honour on the occasion.

The programme involves innovative project submissions on sustainability of water and biodiversity by groups of students guided by a teacher. The programme aims at promoting environmental thinking among the school going children. Ten best schools will be selected at the National level by the Earthian and awarded Rs. one lakh each. All participating teachers and students will be given a participation certificate. Earthian recognition shields to the best project submissions at the regional level will also be awarded.

Earlier, Dr. Kirubasankar, Coordinator, CPREEC, Port Blair welcomed the gathering. Dr. A. Velmurugan, Sr. Scientist delivered a lecture on Water resources and Sustainability. Mr. P. T. Rajan, Sr. Zoological Assistant, Zoological Survey of India, Mr. DebKumar Bhadra, Technical Officer, Indian Institute of Geomagnetism delivered a lecture on Water and Sustainability: Framework and Earthian activities. Mr. A. Gopal Project Officer, CPREEC discussed the sustainability education in school curriculum, biodiversity & sustainability Framework and Earthian activities and proposed vote of thanks.
The ECHO of India, Port Blair

CPREEC organizes Workshop on Island Biodiversity Conservation

PORT BLAIR, APRIL 28: CPREEC organized a capacity building workshop on Island biodiversity conservation and organised visits for the pre-service teachers of the CPE at Andaman and Nicobar Islands (ADST), Government of India, Delhi. The workshop was held at the Island Biodiversity Monitoring Centre, Port Blair, on 28th April, 2016. The workshop was conducted by Dr. S.K. Banerjee, Scientist, CPREEC, and Dr. S. Sengupta, Scientist, CPREEC.

Workshop on capacity building held

Apologies, April 14

A capacity building workshop on Island biodiversity conservation was organized at the CPE on 14th April for the pre-service teachers of the Andaman and Nicobar Island Islands (ADST), Port Blair. The workshop was organized by CPREEC and conducted by Dr. S.K. Banerjee, Scientist, CPREEC.
NASA’s Global Kit for City Students

The first ever ‘Earth Day’ observed on April 22, 1970, was the result of millions of students from school and universities in the US who took to the streets demonstrating for a healthier environment. It was the first time environmental issues reached the front pages of the press. Keeping in mind that students have the power to bring about monumental change, the US consulate in association of the C P Ramaswamy Aiyer Environmental Education Centre distributed plant saplings and ‘global kits’ to students from different schools in the city on Friday.

The ‘global kit’ developed by NASA and National Science Foundation will help students take part in a global process to combat climate change. The ‘global kit’ contains instruments and equipment that would allow students to test and conduct experiments on the turbidity of the soil, the temperatures of the city, quality of the water, pollution content in area. Besides these regular experiments, students also get a chance to handle equipment that determines the canopy cover in an area, the height of a tree or tracing back her steps if she were lost.

Dr P Sudhakar, joint secretary of CPR Environmental centre, said, “Their experiments with these tools will allow them to make their data collection a global procedure so the NASA would be able to determine the quality of the earth in different parts if the world. US consulate general Philip Min encouraged the student to use the kits with passion and join the “go green revolution!”
A & N Islands, Nation

Workshop on environmental issues held

PORT BLAIR, JULY 22 / 2016

C.P.R. Environmental Education Centre in collaboration with the Science wing of directorate of education and WIPRO - Earthian organized a daylong workshop on 21st July, at Tagore Govt. College of Education, here. The workshop was inaugurated by Mr. Agni Mitra IFS, Director, Department of Science and Technology, A&N Administration. In his inaugural address, he pointed out the environmental issues of these islands, climate change, problems of biodiversity less and educators rule in conservation. Mr. Mammy Thomas, Dy Director Education (Sci.), Directorate of Education was guest of honour on the occasion.

The programme involves innovative project submissions on sustainability of water and biodiversity by groups of students guided by a teacher. The programme aims at promoting environmental thinking among the school going children. Ten best schools will be selected at the National level by the Earthian and awarded Rs. one lakh each. All participating teachers and students will be given a participation certificate. Earthian recognition shields to the best project submissions at the regional level will also be awarded.

Earlier, Dr. Kribhasankar, Coordinator, CPREEC, Port Blair welcomed the gatherings. Dr. A. Velamurugan, Sr. Scientist delivered a lecture on Water resources and Sustainability. Mr. P.T. Rajan, Sr Zoological Assistant, Zoological Survey of India Mr. DebKumar Bhadra, Technical Officer, Indian Institute of Geomagnetism delivered a lecture on Water and Sustainability: Frame work and Earthian activities. Mr. A. Gopal Project Officer, CPREEC discussed the sustainability education in school curriculum, biodiversity & sustainability. Frame work and Earthian activities and proposed vote of thanks.
The Daily Telegrams

Promoting environmental thinking among school children

Port Blair, July 24

C.P.R. Environmental Education Centre, in collaboration with the Science Wing of Directorate of Education and WIPRO - Earthian organized a day workshop yesterday at TGCE here. The workshop was inaugurated by Shri. Shri. Agni Mitra, Director, Department of Science and Technology. Speaking on the occasion, he pointed out the environmental issues of these islands, climate change, problems of biodiversity loss and educators role in conservation. Shri. Mammen Thomas, Dy. Director Education (Sc.), Directorate of Education was guest of honour on the occasion.

The C. P. R. Environmental Education Centre in collaboration with WIPRO - Earthian has taken up a Sustainability Education Programme in South India. The

(Contd. on last page)

Promoting...
(Contd. from page 1)
programme involves innovative project submissions on sustainability of water and biodiversity by groups of students guided by a teacher. The programme is creative in promoting environmental thinking among the school going children (Std. VII to XII) which is highly connected to the curriculum. Ten best schools will be selected at the National level by the Earthian and awarded one lakh each. Earthian recognition shields to the best project submissions at the regional level will also be awarded.

Earlier, Dr. Kirubasankar, Coordinator, CPREEC, Port Blair welcomed the gatherings, a communication said.

Published by IP Divi...
‘Changing weather patterns cause heavy rainfall’

Poor maintenance of water bodies leads to problems for Chennai: Expert

NT Bureau
Chennai, Oct 9

It is hard to forget last December’s deluge. But more than that, the thoughts about whether we had taken the precautionary measures or not loom more and more incessantly. So it is more than just a basic common sense. C P Ramaswamy, former Director of Regional Meteorological Centre, Chennai, Ramanad and president of South Asia Council for Inter-Sectoral Water Resource Studies, explained. While Ramaswamy spoke about rainfall patterns and the need to ensure good disaster management, Ramanad, said, ‘Earth is tilted 23.5 degrees from normal and when it tilts tilted with respect to the sun, there is change in weather conditions. The portion of the Earth near the sun is hot while the portion away from the sun is cold. This change in weather conditions is the reason for rainfall. If we go even more deeper, the climate in weather condition causes development of blade winds like Esterlina and Wintertide. When these winds low that high pressure area to low pressure area, sea to land, vice versa, we get rains as these wind econo zone amount of moisture which lead to precipitation and rainfall.’

During almanac and cyclones, land winds and sea winds get mixed up, circulate and cause maximum rainfall. During the last December floods, the Indian peninsula had a dumpling-snap which pertains which were the reason why they were heavy rainfall,’ he added.

But when we consider European countries, normally we get two severe storms at our. It is the case of strong trade winds. In those countries, rainfall will be in the form of only drizzles. But that is not the case with the American continent, which suffers from a good number of storms and cyclones every year. In fact they are yet to realise from cyclones Katrina. When it comes to monsoon and rain prediction, it is really difficult in regions and areas where the wind pattern changes frequently. But in the northern region it’s quite easy. For example, in countries like Canada, we can predict the rainfall one week in advance but in most countries, it is possible to predict rainfall only before one hour of occurrence, he added. Ramanad further said, ‘Intense monsoon, the African continent doesn’t see many cyclones as the oceans are cooler or from the sides. Also, in Indian rainfall, the monsoons are normal and they don’t go to extreme zones in countries like Cuba, the cyclones are excellent. The government enlists people about cyclones well in advance and helps them move to higher places like mountain cliffs with their belongings, but that’s not possible in our country.’

Speaking about disaster management, Ramaswamy said, Urbanisation is rapid in Chennai and is uncontrolled. While tree is a good sign for the growth of the country, it’s quite disappointing to see the plight of the water bodies in the city. Ramanad annihilation of water bodies is going unnoticed.

He also said that the prime reason for the increasing number of disasters is the lack of data base about the previous disasters and the extent of damages caused by them.

In 2005 we had higher rainfall than in last December; but no one learnt lessons from it. In fact, there are 1942 trees in and around Chennai and word is coming that some Chennai gets flooded. These trees have a total storage of about 4.45 TMC. It is in addition, in Chennai zone we had three rivers namely Kovalam–Kootanai–river, Colum and Adyar rivers and now one is the state of these rivers,’ he concluded.

Announcement of water bodies is going unnoticed.

Regional Meteorological Centre of Tamil Nadu prepared a report about flood disaster management in Chennai and submitted.

Dweep Samachar (Andaman Daily)
Painstaking efforts to make groves thrive

These thickets are sacred to many communities
CPR centre involved in rejuvenating woods

WHAT IS IT?

They are as many groves of trees of sacred religious importance to a particular culture. Groves are situated on the fringes of towns and villages, mostly in poor and semi-poor localities. They are also found in the interiors of forests, mainly in the Eastern Ghats such as Mulberry, Sapu Palmyra and watchman tree.

GROVES ARE IMPORTANT FOR THE FOLLOWING REASONS:

- Groves are also a source of religious and cultural values.
- Groves are also the source of livelihood and sustenance and also considered sacred places.
- Groves are also the source of natural resources like timber, fruits, honey, medicinal plants, etc.
- Groves are also the source of social and cultural values.

WHY IS IT IMPORTANT?

Groves are important in maintaining the diversity of plant species and also in maintaining the biodiversity of the local communities. Groves are also the source of water resources.

City is flood-prone due to poor urban planning: Experts

City is flood-prone due to poor urban planning: Experts

Lack of a database on disasters, risk reduction and mitigation policies are major limitations

We have systematically destroyed traditional drainage systems and water bodies with unplanned, mindless urban expansion. There are no proper catchment basins on the worst floods in 100 or 300 years to plan a city. Mr. Janakiraman said that every place must have a disaster management plan.

“However, we do not have disaster risk reduction strategies or vulnerability analysis in place. We have not documented lessons learnt from the past. There is no database on disasters, risk reduction and mitigation policies are major limitations,” said Mr. Janakiraman.

Weather unit

Forecasting the drainage system and rainfall patterns was essential to mitigate floods, he said the State must have a weather unit manned by climatologists along with the meteorological department. Highlighting the destruction of Palakkad marshland and water bodies, he said “it was human intervention that caused floods. We must map ecological hotspots and comprehensively survey waterbodies and waterways and plan flood mitigation measures.”

Disaster preparedness must be taught at a young age, according to S.R. Ramaswami, former director, Arka Cyclone Warning Centre, Regional Meteorological Centre, Chennai. “We must teach our children about natural disasters and respect the unexpectedness of nature,” he said. Elaborating on the complex, volatile nature of northeast monsoon and various global weather parameters that influence it, he said there were many weather agencies that provided weather forecasts.

“Forecasts may differ. But we must be prepared for the season to be summer or monsoon and also for the predictions to present loss. People’s mindset need to change. We must take the right decisions based on the warnings given,” Mr. Ramaswami said. The meteorological department’s forecast and medium forecast are more accurate now, he added.
National Seminar on Scientific & Technical Terminology in Biodiversity of Andaman & Nicobar Islands underway

Port Blair, Nov 17

The local office of CPR Environmental Education Centre here in collaboration with Commission for Scientific & Technical Terminology (CSTT), Department of Higher Education, Ministry of Human Resource Development, Govt. of India, New Delhi is organizing two days National Seminar on Scientific and Technical Terminology in Biodiversity of Andaman & Nicobar Islands. The seminar was inaugurated by the Principal Chief Conservator of Forest (Wildlife) Shri. Manmohan Singh Negi. In his inaugural address, he highlighted the power of words in biodiversity and science. Prof. Nand Kumar Pundey, Chairman, CSTT given the presidential address in his presidential address highlighted the importance of regional languages and its values and motivated the delegates to learn Indian languages. Shri. Deepak Kumar Srivastav, Controlling Officer, CSTT and Er. Jai Singh Rawat, Asst. Scientific Officer, CSTT elaborated about the seminar and the CSTT activities. Dr. Jai Dev Singh, Principal, TUCE, Port Blair highlighted the importance of words in science.

About 100 officials from various departments of Andaman and Nicobar Administration, educational institutions, research institution besides some participants from mainland attended this workshop.

In the valedictory, Dr. S. Dam Roy, Director, ICAR-Clari, Port Blair was the chief guest, who pointed out the language connectivity of the people of these Islands. He also gave away the Certificates to the resource person and participants. Shri. A. Gopu, Project Officer, CPR-ECC, Port Blair proposed the vote of thanks.

DINAMALAR TAMIL DAILY
COIMBATORE EDITION – DECEMBER 29, 2016
Workshop held for teachers

A two-day capacity building workshop on biodiversity conservation for the teachers trainers of DEITs, concluded at Gandhi in Sathiyavunthangal Tiger Reserve on Wednesday.

Divisional Forest Officer of Sathyavunthangal Division Anandal, addressed the workshop that is being conducted for DEIT trainers across Nilgiri Biosphere Reserve and oriented participants on the diverse ecosystem in the Western Ghats encompassing tall evergreen forests, moist deciduous forests, shrublands covering an area of over 320 square kilometers. The STC houses more than 40 species of mammals and 200 species of birds and for many more endemics plants and animals.

The tiger population was also increasing constantly, the DFO said and appealing for public cooperation for the better management of STC.

Biodiversity

The teacher trainers learnt about facets of biodiversity: them forests in the North East part of The Nilgiri district to the deciduous forests of Nagerhole and Kabini, several woodlands of Mudumalai, Bandipur-Anamalais, pristine evergreen forests like those of the Silent Valley, moist evergreen patches of the Nilgiri Ranges Hills and mountain forests (shola) and grasslands of the hillsides.

The workshops supported by National Biodiversity Authority are being organised for teacher trainers of DEITs in Tamil Nadu, Kerala and Karnataka by Ooty based C.P.R. Environmental Education Centre (CPRCEC).

The focus is on Biodiversity – Definition, types and importance; Status of
TAMIL PRESS CLIPPINGS

DINAMALAR, JANUARY 23, 2017

அருக பலின் மாணவர்களால் தேசிய தினசரி அணுப்பதற்கு முன் செய்யப்பட்டது

DINAKARAN - JANUARY 24, 2017

நூற்றாண்டு ஆண்டு உலக விவசாய சார்பு அணுப்பதற்கு முன் செய்யப்பட்டது.
The Prajatantra, 06/02/2017

The Prajatantra, 09/02/2017
TELUGU PRESS CLIPPINGS