6.5.3 Off-campus Water Conservation Support

KITS provides off-campus water conservation support in various ways to engage with communities at local, regional, national and international level and promote sustainable practices. The institution contributes to water conservation efforts beyond its campus borders in the following ways:

1. Collaborative Research
2. Educational outreach
3. Demonstration, extramural and consultancy projects
4. Consultancy services
5. Community based projects
6. Partnership
7. Monitoring water quality and reporting

Karunya Community Outreach and Student Sensitization
Integrated and Sustainable Village Development

Pachinampathi, Coimbatore District

Community Outreach Activity

Community Outreach Programme is at the heart of the educational process at Karunya Institute of Technology and Sciences (KITS). These opportunities help the faculty and students to build a sense of responsibility and sensitivity towards the society. More importantly, faculty and students can deepen their understanding of systemic change and social responsibility in the society. The institution offers various opportunities to become active and positive contributors to the farming community**.**

Transfer of Technology

As a lab to land programme students conducted various demonstrations to solve the field problems at different farmer's field in various villages during the village stay programme. The major problems faced by the farmers are identified and proper technologies and management practices were demonstrated. Critical skill-demonstrations under these thematic areas included:

- Use of Yellow sticky Trap
- Root feeding in Coconut
- Neem leaf extraction
- Azola preparation
- Banana paring and pralinage
- Preparation of Jeevaamirtham & Panchakavya
- Stem injection in banana
- Bucket trap
- Tree banding in coconut
- Bee keeping

Village Adoption: Pachinampathy Village

Integrated and sustainable village development Model is an emerging concept still in the process of being developed. Through this Concept, KITS has created a model village of environmentally sustainable development in active collaboration with village people that reflect their concern and respect for the environment. Environmentally sustainable and ecologically oriented integrated villages shall be focused towards the model village.

Adopted village is developed with an aim to ensure sustainable development in an organized and integrated manner. The programme endeavours to sustain prosperity in villages that is built around sustainable use of the key natural resources of a village, through the adoption of low-impact practices that result in water security, food security and livelihood security for the village communities.

Activities in Pachinampathy Village

- ✓ Drip irrigation for Kitchen Garden
- ✓ Vermicompost unit
- ✓ Innovative Cages for Backyard poultry

- ✓ Solid waste management gadgets and system
- ✓ Solar Lamps for community meetings
- ✓ Nutritional Garden for rural community
- ✓ Grow bags for household vegetable production
- ✓ Livelihood support by planting coconut, moringa and other useful plants
- ✓ Rural water supply – Demonstration of cost effective ferrocement storage tank
- ✓ Providing advice on farming techniques, Animal Husbandry and demo unit
- ✓ Biogas plant to demonstration of solid waste treatment and cooking gas generation
- ✓ Awareness creation and capacity building

Vermicompost Unit

Vermicompost production unit has been developed in Mr.Rasu, field at Pachinampathy Village. The species of earth warm Tiger worm (Eisenia fetida) was innoculated for preparation of vermicompost. The size of vermicompost tank unit is 2.5mX1.5 mX1m which is used for nutritional kitchen garden.

Kitchen garden

One Nutritional Organic Kitchen Garden has been established in an area of 5 cents. Different vegetables are sown in different beds according to the season. The organic manures produced in the Vermicompost unit are used for health purposes to make it purely an Organic Kitchen Garden.

Tree planting at Pachinampathy Village

Technology Transfer

Panjakavya Preparation

Demonstration on NSKE: Uses, application

Yellow sticky trap: Application

Education campaign

Health Awareness Campaign

Household Biogas plant

Ferrocement Tank for Drinking Water – Rural Water Supply

Technology Transfer:

Construction of Sanitation Block with Bamboo Reinforced Geo-Polymer Precast Units - A Technology Transfer.

Flyash Toilet