

## **BRIEF PROFILE OF AISECC**

- To develop academic excellence in energy efficiency and care for the graduate and postgraduate students through specialized courses and quality research work.
- To develop an association with national and international academic and research institutes for the research and technology development in energy, environment and climate change.
- To develop an association with the government and private sector, including industries for research and technology development, assessment etc., in energy efficiency and climate change.
- Conduct sponsored and action research in the field of energy efficiency and climate change. Organizing national and international seminars, exhibitions, workshops and training & capacity building programs to develop comprehensive understanding among participating and networking partners.
- Providing leadership for organizing international delegations and industrial visits to increase knowledge and understanding of various partners and better implement various projects.

## **AISECC ACTIVITIES INCLUDE**

### **Carbon Neutral and Resilient Farming**

- Bio-Digestor, Vermicompost
- Cattle Shed (Gaushala)
- Farm Pond with solar pumping
- Drip irrigation
- Nursery, Horticulture and research.
- Food Storage

### **Energy efficiency and renewable**

- Passive technology – Cool paint, evaporative cooling,
- Prefabricated Eco-Friendly houses
- Renewable energy integration in building
- Power optimizer and management

### **Education and Health**

- Agriculture diploma / Night classes for farmers
- Software Engineering students
- Research projects
- Train children for eco-farming
- Health Camp

## **Women Entrepreneurship, Farm cooperative and Micro-Financing**

- Agriculture diploma / Night classes for farmers
- Software Engineering students
- Research projects
- Train children for eco-farming
- Health Camp

### **AISECC FACILITIES INCLUDE**

- State of the art laboratories
- Hall to accommodate 100 people for training purpose
- Link up with most prestigious research and missionary organizations

### **AISECC ACHIVEMENTS**

The work has been started to implement the following solutions:

- Cool Roof – Pilot project for Anganwadi, Gaushala and Residential dwelling in Mogar and Vadod villages has been successfully accomplished.
- Smart Village – Full scale biogas plant of 45 m<sup>3</sup> at Uday farm, DJMIT campus Mogar and 85 m<sup>3</sup> at Vaghrol, Dantiwada road, Deesa has been successfully constructed and to be commissioned in near future.
- Carbon Sequestration- Carbon sequestration by using activated carbon production from Juliflora Prosopis is under study.
- Balancing Nutrient Cycles- Developing liquid and solid organic manure from Biogas digested slurry and using activated carbon developed from Juliflora Prosopis in sewage treatment to absorb nutrients will help balance the nutrient cycles.



## ETRL highlights and achievements:

Environmental Testing and Research Laboratory has been envisaged and realized by DJMIT management to achieve excellence in testing and research in environmental engineering field by initial investment of 50 lac rupees in 2020. The ETRL has been awarded Schedule 1 auditor license by GPCB in 2021 and twelve reputed major industries had been awarded for conducting environmental audit by GPCB in 2021-22. ETRL has also conducted full fledged consultancy and turn over of 60 lacs rupees has been achieved in 2021-22. The laboratory is fully equipped with the state-of-the-art instruments and facilities to conduct air monitoring, water and wastewater analysis, soil and solid waste analysis etc as per GPCB standards and APHA guidelines. The GPCB has awarded eleven major industries to ETRL for the year 2022-23. The laboratory is progressive and prospective to increase its outreach in consultancy services in coming time.

