

## **One Month Training Program on Renewable Energy Technologies & Applications**

- 1) Introductory Session – Distribution of Training Kit & Discussion of Training Agenda
- 2) Introduction to Renewable Energy
- 3) Hands on Practical on Industrial & Electrical Safety Measures & appliance
- 4) Basics of Electrical & Electronics on Solar Measuring Instruments / Equipment's.
- 5) Physic of Solar Photovoltaic Technology & Preparation of IV characteristics & Plotting
- 6) Design, Installation & Maintenance of Solar Photovoltaic Technology Application
  - a. Solar Lantern
  - b. Solar Home System
  - c. Solar Street Lighting System
  - d. Solar Pump
  - e. Solar Road Traffic Signalling
  - f. Solar Power Plant: Off-Grid, On-Grid, Hybrid
- 7) Design, Installation & Maintenance of Wind-Solar Hybrid System: Off-Grid, On-Grid
- 8) Design, Installation & Maintenance of Wind-Solar Hybrid System
- 9) Design, Installation & Maintenance of Solar Thermal System
  - a. Solar Water Heater – Flat Plate Collector based SWH & Evacuated Tube Collector based SWH
  - b. Solar Drier
  - c. Solar Distillation Plant
  - d. Solar Cooker
  - e. Solar Air Treater
- 10) Site Visit & Learning on System Installation & Maintenance Procedure of Solar Photovoltaic, Solar Thermal & Wind Solar Hybrid System.
- 11) Application of Software: Remote Monitoring & Simulation
- 12) Learn on how to operate app based Renewable Energy applications.
- 13) Project Presentation / Case Study / Quiz, Feedback Session & Certificate Distribution

