

1. Energy Systems Lab

Equipment : Centrifugal Pump Test Rig with VFD Drive
Make : Consolidated Equipment Services
Model : Custom assembly
Application : Performance analysis of domestic pumps and VFD operation testing, Energy Efficiency in pumping systems.
Sample : Domestic pumps
Charges (Rs.) : 2500/-



2. Energy Systems Lab



Equipment : Fan Motor Set with VFD Drive
Make : KEC(Motor)
Model : Custom assembly
Application : Performance testing of wind turbines for varying wind speeds
Sample : Wind Turbine
Charges (Rs.) : 2000/-

3. Energy Systems Lab

Equipment : Solar Simulator
Make : Western Regional Instrumentation Centre
Model : Custom assembly
Application : Testing of new solar cells for identification of electrical parameters.
Sample : Solar Cell
Charges (Rs.) : 500/- per cell



4. Distributed Generation Lab



Equipment : Synchronous Machine Training System
Make : NVIS Technologies
Model : NV7018
Application : Testing of parallel operation of Three Phase Synchronous Generators.
Sample : Synchronous Generators
Charges (Rs.) : 2000/-

5. Electrical Machines Lab

Equipment : Power Quality and Energy Analyser, 435 H
Make : Fluke
Model : 435-II
Application : Analysis of three phase and single phase power distribution systems and equipment
Charges (Rs.) : Case to case basis



6. Renewable Energy Lab



Equipment : Solar PV Trainer
Make : Ecosense
Model : Custom Assembly
Application : Demonstration of performance and configuration of Solar PV system
Sample : Solar Panel
Charges (Rs.) : 1500/-

7. Renewable Energy Lab

Equipment : Solar Grid Tied Trainer
Make : Ecosense
Model : Custom Assembly
Application : Analysis of grid tied Solar PV system
Charges (Rs.) : 1500/-



8. Renewable Energy Lab



Equipment : Solar Thermal Flat Plate Trainer
Make : Ecosense
Model : Custom Assembly
Application : Analysis of Solar water heating system
Charges (Rs.) : 2000/-

9. Renewable Energy Lab

Equipment : Solar Thermal Concentrator Trainer
Make : Ecosense
Model : Custom Assembly
Application : Demonstration of performance and configuration of Solar concentrator system
Charges (Rs.) : Case to case basis



10. Renewable Energy Lab



Equipment : Solar PV Trainer with 2 Axis Tracking
Make : NVIS Technologies
Model : NVIS 726
Application : Analysis and configuration testing of Solar PV system
Sample : Solar Panel
Charges (Rs.) : 1000/-

11. Renewable Energy Lab

Equipment : Fluke 59 MAX Infrared Thermometer)
Make : Fluke
Model : 59MAX
Application : Surface temperature monitoring and fault studies of electrical and mechanical equipment.

Charges (Rs.) : 500/- per day



12. Energy Systems Lab



Equipment : Power Guard MECO
Make : MECO
Model : PG09H
Application : Power and energy study of domestic and low power electrical appliances
Charges (Rs.) : 500/- per day

13. Renewable Energy Lab

Equipment : Clean Energy Trainer
Make : Heliocentris
Model : CET-1
Application : Analysis of Fuel cells and H2 generation using renewable energy sources
Sample : Renewable energy sources
Charges (Rs.) : 1000/-



14. Renewable Energy Lab



Equipment : Optical Integrator
Make : EMI Products
Model : Custom assembly
Application : Testing and comparison study of Luminaires
Sample : Luminaires
Charges (Rs.) : 700/- per lamp

15. Power Systems Lab

Equipment : Electromechanical overvoltage relay unit
Make : Protection Systems India
Model : EMOV- A
Application : In-situ Relay testing
Sample :
Charges (Rs.) :



16. Power Systems Lab



Equipment : Oil Dielectric Tester
Make : Protection Systems India
Application : Energy consumption study and energy audit of equipment
Sample : Oil
Charges (Rs.) : 500/-

17. Power Systems Lab

Equipment : High voltage tester with Jig Solid Dielectric Strength Testing Kit

Make : Protection Systems India

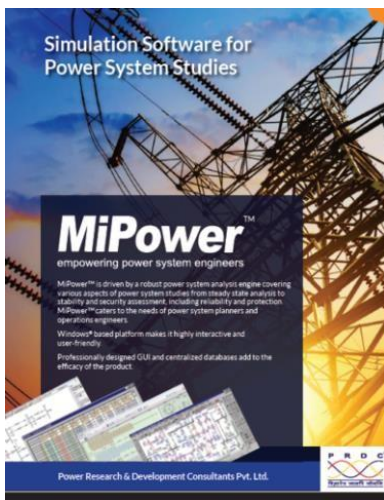
Application : Energy consumption study and energy audit of equipment

Sample : Mica sheet, Acrylic Sheet, Milnex Paper

Charges (Rs.) : 250/- per sample



18. Simulation Lab



Equipment : MiPower

Make : PRDC

Model : MiPower-5

Application : Analysis of Load flow, Short circuit, Transient stability study, Relay coordination, Voltage instability analysis and Harmonic analysis

Charges (Rs.) : Case to case basis

19. Distributed Generation Lab (FIST Equipment)

Equipment : Brushless Alternator 5Kva
Make : Benn Electricals
Model : Brushless Alternator with auxiliary measurement of Field variables
Application : Grid synchronization, Test micro-grid Sources, Micro-grid power system studies ,Heat-run test of induction motors



Sample : Power generation units

Charges (Rs.) : 5000/-

20. Distributed Generation Lab (FIST Equipment)



Equipment : DC-DC converter Stack unit
Make : Semikron Electronics LTD
Model : MD Buck-Boost 600/430-30F
Application : Used for various power electronics developments
Sample : PE Module development
Charges (Rs.) : 5000/-

21. Distributed Generation Lab (FIST Equipment)

Equipment : 2.77 kWp Solar PV System with Battery storage
Make : Jyothis Traders
Model : Custom assembly
Application : Performance testing of Solar Panels
Sample : Solar Panel
Charges (Rs.) : 1000/- panel

