



PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDP)



SCHOOL OF ENERGY TECHNOLOGY

Department of Electrical Engineering
Name of Laboratory : Electrical Research Lab

www.pdeu.ac.in

NAME OF EQUIPMENT :

AC/DC & IMPULSE TEST SET

TECHNICAL SPECIFICATIONS :

- 100KV AC, 140KV DC, 140 KV peak Impulse.
- AC High Voltage Output: 100 kV RMS
- DC High Voltage Output: 140 kV
- Impulse Voltage: 140 kV peak (lightning & Switching waveform)
- Test Frequency: 50 Hz (AC mode)
- Transformer Rating: 5 kVA
- Voltage Control: Motorised variac, 0–100%
- Measurement: Sphere gap & capacitive divider
- Safety: Earthing rod, interlock system, safety fence
- Standards: IEC 60060-1 compliant



NAME OF EQUIPMENT :

Experiment Set of Wind Generator

TECHNICAL SPECIFICATIONS :

- Wind Control Panel
- Digital Voltmeter, Ammeter, Power Analyser
- Make: ECOSENCE
- Make: ECOSENCE, Chennai
- Type: Permanent Magnet AC Generator (PMAG)
- Wind Simulation: Variable speed DC motor drive
- Output: 3-phase AC, Variable frequency
- Control Panel: Digital Voltmeter, Ammeter, Power Analyser
- Rated Wind Speed: 12 m/s (simulated)
- Cut-in Speed: 3 m/s (simulated)
- Load Bank: Resistive + LED load
- Interface: PC-based data logging



NAME OF EQUIPMENT :

dSPACE MicroLabBox

TECHNICAL SPECIFICATIONS :

- dSPACE MicroLabBox
- Multi-Channel Analog I/O
- Digital I/O
- RS232/CAN Interface
- Real-Time Control Platform



NAME OF EQUIPMENT :

4-Leg IGBT Power Module (IPM)

TECHNICAL SPECIFICATIONS :

- 4-Leg IGBT Power Module
- 440V AC Input
- PWM Isolator
- 8-Channel PWM Output
- Make: Power Lab Instruments Chennai

