



UGC RECOGNIZED

PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)



SCHOOL OF ENERGY TECHNOLOGY

Department of Biotechnology Engineering

Name of Laboratory : Drug Discovery Lab

www.pdeu.ac.in

NAME OF EQUIPMENT : Nano Spider

TECHNICAL SPECIFICATIONS :

- **Model:** NSLABV1IM-00040
- **Type:** Needle free electro-spinning system
- **Effective width of nanofiber layer:** 250 -300nm
- **Run time per batch:** 30-80min
- **Volume of solution per batch:** 40ml
- **Substrate speed:** 0-500 mm/min
- **Spinning voltage:** 0-80 kV



NAME OF EQUIPMENT : Electronic Spin

TECHNICAL SPECIFICATIONS :

- **Model:** EspinNanoV1VH
- **Voltage:** 0-40 kV
- **Syringe Pump:** 2 Nos.- dual channel
- **Coaxial spinneret:** Spinneret for coaxial spinning, Chemical resistant Tubing to connect syringe with spinneret - 10 meters
- **Multi nozzle:** Multi nozzle spinneret with 5 needles geometry
- **Drum Collector:** Length 200 mm dia 100 mm (Customizable), Rotating Speed 500- 4000 RPM
- **Plate Collector:** 200 x 200 mm (Customizable)
- **Distance Adjustment:** Manual / Motorized adjustment of distance between Syringe and Collector. 0 to 250 mm X in Vertical Z in horizontal
- **Collector assembly Movement:** Translation stage of 150mm for mounting Collector Assembly (Y Axis) Programmable speed and distance
- **Cabin Heating Temperature & Humidity Display:** Provision to heat cabin up to 40 °C Digital Display of Cabin Temperature & Humidity



NAME OF EQUIPMENT : Zebrafish Housing System

TECHNICAL SPECIFICATIONS :

- **Model:** GENDANIO CL-307-1
- **Rack configuration:** 3 Shelves
- **Pipe System:** Plasticizer-free UPVC piping
- Recirculating aquaculture system (RAS)
- **Filtration system:** Equipped with 10 Filter pads
- **Sterilization:** UV sterilizing housing and device
- **Duration:** Continuous 24-hour operation



NAME OF EQUIPMENT : Plant Growth Chamber

TECHNICAL SPECIFICATIONS :

- Plant growth chamber equipped with:
 - Controlled temperature
 - Light
 - Humidity
- Forced air circulation system



NAME OF EQUIPMENT : Diffusion Cell Apparatus

TECHNICAL SPECIFICATIONS :

- **Stirrer drive** : 7 stage
- **Material of construction of enclosure** : S.S. 304
- **RPM indicator** : Digital (Touch Screen)
- **Speed Range & Accuracy**: 200-800 rpm (1.0%)
- **Equipped with:**
 - Water circulation System
 - Temperature range and accuracy 5 degree Celsius
 - Above ambient to 60 degree Celsius
- **Temperature indicator** : Digital (Touch screen)
- **Certifications** : C E Compliant

