

## List of Equipments Planned for Procurement during 2018-19

Name of Equipment
<ul style="list-style-type: none"><li>• Field Emission Scanning Electron Microscope (FE-SEM)</li><li>• Ultra high vacuum (UHV) E-beam Evaporating System</li><li>• Optical Microscope</li><li>• 3-D printer</li><li>• Electrochemical workstation</li><li>• Force Gauge</li><li>• Spray Coater</li><li>• High power RF Source</li><li>• Micro hardness tester</li><li>• Multifunction Acoustic Calibrator</li><li>• RF generator low frequency</li><li>• Chemical Incinerator</li><li>• F-750 Produce Quality Meter</li><li>• FT-NIR spectrophotometer</li><li>• Somatic cell measuring system</li><li>• Raman Spectrophotometer</li><li>• Edible oil analyser</li><li>• Florescent spectrometer</li><li>• EM Scanner</li><li>• Mobile workstation</li><li>• Control s/w for mini/precision shaker</li><li>• 3-axis mini CNC</li><li>• VNA</li><li>• Power quality analyzer</li><li>• HIL Simulator</li><li>• Battery simulator</li><li>• UTM for redundancy and load balancing</li><li>• Wireless access point</li><li>• Core switch</li><li>• Server room monitoring and maintenance tools</li><li>• PCs</li><li>• VC camera</li><li>• UPS</li><li>• Windows and off license</li><li>• Refrigerators</li><li>• Laptop</li><li>• Diffuse reflectance</li><li>• THz Line scanner</li><li>• IMPATT diode high power source</li><li>• Fabrication of 3kw solar tree</li><li>• Motorized translation stages</li></ul>

- 5KVA&1600VA UPS
- Microscope
- Mobile workstation
- NVIDIA GPU card
- NVIDIA Tesla card
- Three axis digital read out milling machine
- Pillar drilling machine
- Upgradation of Auger Electron Spectroscopy
- DI water plant 120 L/hr
- Nitrogen gas generation plant
- Dew point analyzer for hydrogen gas
- PPM analyzer for hydrogen gas
- Burner for glass blowing
- Programmable DC Power Supply for electromagnet
- Quartz crystal micro balance
- Tools for CSF including fork lifter
- Digital magnetic stirrer hot plate, filter unit, portable plating barrel
- High end workstations
- Ozone Analyzer
- Atmospheric pressure residual gas analyzer
- High voltage compact DC power supply
- Capacitor charging power supply (CCPS)
- High bandwidth oscilloscope
- THz radiation detection system
- 7T superconducting magnet with power supply
- Calorimetric load capable to measure 200Kw(cw)
- Antenna measurement setup
- Reference antenna pairs of different frequency bands
- Three axis probe and Gauss meter
- Magnet power supply(main & auxillary coil)
- Characterization chamber of VMD devices
- Chemical bench
- Power supply upto 30kv
- Ultra sonicator gun
- Hydraulic Press Machine
- Vertical Milling Machine
- Welding Generator
- Carpentry machines (wood planer, wood cutter, jig saw machine)
- Cut off saw machine
- Portable welding machine
- Floor crane
- HbA1C Meter
- Digital photo colorimeter
- Digital weighing scale

- Three phase AC Power quality analyzer
- Single phase auto transformer
- Three phase auto transformer
- LCR Meter
- Soldering station
- Syringe Pump
- Electrochemical Workstation
- Incubator x 2
- Tunable Laser Source and detector
- CNC Wegstr
- Precise current Source/ Measure unit (100 fA)
- Multiple Output Digital DC Power Supply )0.1 volts(
- Digital Multimeter
- (8 1/2 digit)
- SMD soldering and de-soldering station
- USB Modular SMU along with test fixture
- Ultrasonic bath x 2
- Super-continuum light source with accessories
- x-y-z-theta-phi alignment stage with OSA & accessories
- Design software and Workstation
- Smartphone x 5
- Oven (2 Nos.)
- Welder
- Hot plates x 2
- Handheld spectrometer
- Fluorescence Microscope
- Automatic Potentiometric Titrator
- pH meter
- Wax printer
- Spin coater
- Silvaco
- Vacuum Storage Chamber
- Portable cold storage chamber
- Laser welding machine
- Test Setup
- Helix winding machine
- TWT test power supply
- Motorized Vehicle
- Hand propelled Tricycle
- Freight charges for destination
- Handheld digital oscilloscope
- Handheld LCR meter
- Handheld digital multi meter
- Programmable DC Power supply
- Laptop
- PC hardware – HP Z440 workstation
- Cordless drill driver

- Fabrication of equipment
- Solenoid Valve (12/24 V Dc operated )
- Sensor with transmitter pH, TDS, ORP/REDOx, Turbidity/DO –
- Level Sensor
- Digital Flow meter-Handheld
- Power Supply
- Optional Sensor Module
- Ultrasonic Level Sensor upto 300 feet
- Water Quality Sensors (Fluoride, TDS, DO, pH & ORP)
- Data Logger/Work Station
- Embedded Boards
- Laser projector with accessories and supporting software
- High precision thermal imager
- CCD/CMOS Camera with high resolution lens
- High performance workstation for solar PVT system modeling
- Data acquisition system with support software
- Hot water recirculation pump and controller
- Thermo Scientific Orion Aqua Mate 8000 UV-Vis with chemical solutions
- Workstations
- Mega sonic cleaner
- Vector network analyser
- Turbo Pumping System alongwith backing pump
- Residual Gas Analyzer
- Microbalance
- Programmable High Voltage Sources and Power Supplies etc.
- Die-bonder with accessories
- Table-top spectro-photometer with accessories
- Spectrum Analyzer
- Logic Analyser
- DC Power Supplies
- Digital Multimeter
- Function Generators
- Data Acquisition Systems
- Video Conferencing setup
- Projector and accessories
- 3D printers and laser cutting tools
- DSO/MSO
- Measuring probes
- Grid Simulator
- Wind Simulator
- Real time simulator
- TMP/Rotary Pumps, oil free rotator pump etc.
- Mass flow meter with controllers
- CNC, Multilayer PCB machines