

**List of Chemicals and Consumables prioritized to be procured under P-07 for the FY 2020-21**

Sr. No.	Item Name
1	Workshop consumable items (Sheet, rod, welding rod tool bit, wire spool, 3D printer material, EDM Wire, etc.)
2	150TR Chiller Maintenance
3	AMC of Hydrogen Plant
4	Other consumable (O-ring gauges, fitting pipes MCB, valve, gauges connector, press fit connectors, etc.)
5	<p>Consumables for Internal Product Development:</p> <p><b>Microwave based dielectric detection system</b> (Frequency synthesizer module, Mixers, Filter, RF cables and connectors, Detectors &amp; analyzers, Data acquisition module, Miscellaneous (capacitors, inductors, resistors, diode, PCB etc.)</p> <p><b>Microwave Pyrolysis System</b> (Gas Pipe Lines and line adaptor, Double Sided Copper Tape, Quartz Cutter, Lab Tools, Chemicals, Gas Collection Bags, Oven Magnetrons with power supply, Waveguides, Stub tuner, Circulator, Antennas, Thermocouple)</p> <p><b>Microwave Oven Magnetron Power Supply</b> (Power Controller, Step Up Transformer, Power Semiconductor Switch, Rectifier and Filter, Separators/Insulators, Heat Sink, Cooling Fan, Glass Fuse)</p>
6	Gases (Liquid nitrogen, O <sub>2</sub> , H <sub>2</sub> , N <sub>2</sub> , Ar, DA, CF <sub>4</sub> , SF <sub>6</sub> , CHF <sub>3</sub> , NH <sub>3</sub> , PH <sub>3</sub> , B <sub>2</sub> H <sub>6</sub> , CO <sub>2</sub> etc.)
7	Chemicals (Acetone Methanol HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> , Chromic Acid and other as per requirement; Photoresist, Developer, Diamond slurry, BOE, Bonding Wires
8	Power Supply for E-beam evaporation system
9	Metals and Targets for different machines

10	Fittings, pipes, valve regulator, and other consumable, O-ring, Gauges, Meters, Electronic components, polishing rings, pads, safety items, First aid box and items, MFC, wires, cables, other miscellaneous items.
11	Spares for machine as per requirement during breakdown
12	AMC of UPS (160KVA & 80KVA)
13	Maintenance of sophisticated Equipment(s)
14	Gloves, aprons, tissue paper, glassware and other lab consumables
15	Internet Lease Line (Pilani)
16	Software Licenses renewal AMCs. Web Portals, VC software upgradation, UTM licenses renewal, Vmware support renewal, website updates and patches, STQC/Security Audit Certifications etc.), Email services Fees
17	Network Maintenance items and works
18	Revamping of Institute Network cables.