

Maharaja Ranjit Singh Punjab Technical University, Bathinda

Purchase of General Equipment for Chemistry Lab at PIT Rajpura & PIT GTB Garh

Sr. No.	Description of Item	Qty.	Unit
1	<p>Hot air oven: Double Walled Unit, Inner Chamber Made of S.S.304, Outer Chamber of Mild Steel with Powder coating, Gap between the two walls filled with glass wool insulation to avoid heat losses of 65 mm, Heating Element made of high grade chrome plated nichrome wire, heaters placed at the right and left side of the inner chamber, Enable with Thermostat control of the temperature, Temperature range: 50°C to 250°C Accuracy +0.2°C., Air ventilation placed on top of both sides to remove heat gases and fumes, Control switch & pilot lamps fitted on front panel, PID Digital Temperature. Controller Cum Indicator with Accuracy +0.2°C, Air circulation Fan for uniform temperature Size: Inner Size in " (WDXH) - 18"X18"X18", Number of shelves:03, Capacity in LTR -90, Rating Watts -2000</p>	2	No.
2	<p>Water Bath: 1) Water Bath Chamber Size 18 " X 18 ". 2) Heavy Duty Chamber made of high grade material fitted with digital temperature controller with stirrer and with heating and cooling system. 3) 2 kg & 2 pc.s tile can be placed easily of 6": X 6". 4) 1 Compressor filled with imported gas provided with relay & other parts to sustain the 24 degree temperature easily. 5) Outside made of mild steel & inner made of stainless steel. 6) Temperature 0-100 degrees</p>	4	No.
3	<p>Hot Plate: Rectangular body made of thick M.S, Top Plate with supporting of ceramic beads which ensures air insulation between plate & base unit, Selection cost iron/ M.S casting plate, Maximum surface temperature 400 C, Temperature controlled by thermostatic controller manually, Long last nichrome elements, Works on 230 V A/C only</p>	4	No.
4	<p>Digital Weighing Balance: Pan size of 200 X 270 mm & Capacity of 500 g, High resolution upto 30,000 counts, easy to read high bright red LED display, Built-in recharge able battery for continuous use, rust proof stainless steel plater, Fast Weighing Response time, Overloaded protection design, Auto power OFF battery indicator</p>	4	No.
5	<p>Magnetic Stirrer:- 1) Body made by mild steel powder coated or complete stainless steel. 2) Top plate made by stainless steel. 3) Heating Range 5°C to 400° C. , 4) Capacity 2 & 5 Lit. 5) Volts 230 Watts 1 kw. 6) Temperature Controlled with energy regulator. 7) The motor with high low speed controller</p>	8	No.

6	Digital Conductivity meter: Measurement unit comprising MHO in range of 0.1 $\mu\Omega$ to 200m Ω in six ranges including 200m Ω , 20m Ω ,2m Ω ,200 $\mu\Omega$,20 $\mu\Omega$,2 $\mu\Omega$.Futher these feature accuracy of $\pm 1\%$ \pm lasty 2 digits & come in ABS Body finish so as to provide for longer service life standards. With instant waring period, should deliver standard conductance of 1.000m Ω with stirrer speed of 200 RPM (FIXED) Feature: Unit of meas.: MHO, Range: 01 $\mu\Omega$ to 200m Ω in six ranges, Six Ranges: 200m Ω , 20m Ω ,2m Ω ,200 $\mu\Omega$,20 $\mu\Omega$,2 $\mu\Omega$., Accuracy: $\pm 1\%$ \pm lasty 2 digits, Power Required: 230 V AC $\pm 10\%$, 50 Hz,5V Aor 9 V battery, Weight: 1 Kg Approx., Body: ABS, Auto calibrated, Warming Period: Instant, Dimensions:-80mm(H), 235mm(W)150 mm(L), Standard Conductance: Conductance of 1.000 m Ω ,Electrode: Cell K=1-PVC sleeved.,Stirrer Speed: 200 RPM fixed, Accessories: Stand set, screw driver & dust proof cover	8	No.
7	Thermometer (For room Temperature)	4	No.
8	Ion Exchanger Digital (For deionized water	2	No.
9	Stop Watch	12	No.

Note: 50% of each of above item is to be delivered at PIT Rajpura & PIT GTB Garh Moga.

