

List of Equipments to be purchased for the laboratories of
⑤ - Mechanical Engineering Department UIET, CSJM University Kanpur

1. Hydraulics Machine Lab.:

S.No	Equipment/Apparatus Name	Qty.	Remarks if any
1.	Impact of Jet Apparatus: 4 interchangeable deflectors Deflecting angles of different deflectors- Angled plate: 45/135deg. Cone: 135deg Plate: 90deg. Hemisphere: 180deg Nozzle dia: 10mm	01	
2.	Pelton Wheel Turbine: 24 bucket 5 HP at 1000 RPM 45 m supply head	01	
3.	Francis Turbine (Test Rig) Head: 20 m 2200RPM, 1KW	01	
4.	Gear Pump/Oil Pump (Test Rig) 1.0 H.P., 2800 RPM Pump	01	

2. Engg. Drawing/ Machine Drawing Lab.:

S.N.	Items Name	Qty	
1.	Cube solid 100 mm side, square, pentagon, hexagon Prism 100 mm side*150 height, sphere solid 100mm dia, Square Pyramid side 100mm Pentagon Pyramid 100mm side * 150mm height, hexagon Pyramid 100mm side * 150mm height, Cylinder 100mm dia* 150mm height, tetra hedron side of 100mm, octahedron side of 100mm, cone dia 100mm* 150mm height.	One set	

3. Heat Transfer Lab.:

S.N.	Equipment/Apparatus Name	Qty	Remarks if any
1.	Composite Wall Apparatus nicrome heater with varying heat input, the slabs of diff. Material in the composite wall, multi channel temp indicator, voltmeter & ammeter to measure the heat	01	
2.	Thermal conductivity of Metal Bar, copper bar, thermocouple, a panel comprising of controls and measurement is provided.	01	
3	Parallel flow/counter flow Heat exchanger, concentric tube type exchanger, hot fluid flows always in one direction & cold fluid direction can be changed according, outer tube of the heat exchanger is provided with adequate insulation to minimize the heat losses.	01	

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