

Appendix-I

Sr. No.	Name of the item with specifications	Qty.
1.	<p>Heat Conduction, Convection and radiation apparatus</p> <ul style="list-style-type: none"> ● Experiment capability of both free (natural) convection and forced convection. ● It includes a variable velocity wind tunnel with a digital velocity meter and a central aperture. ● Three heat transfer surfaces: a flat plate surface, pinned extended surface and finned extended surface. Each heat transfer surface is fitted with its own heater and thermocouples, to enable easy interchange ● The air flow is adjustable up to 10 m/s and measured by an air-velocity sensor ● Suitable software to record of all measured variables for analysis and comparison of the performances. ● To investigate the laws of radiant heat transfer and radiant heat exchange the equipment is equipped with a heat source consists of a flat circular plate with radiometer and a light source consists of a light bulb with light meter and a glass diffuser ● Two appropriate detectors, light filters, target plates of different Emissivity and aperture plates each mounted on suitable carriages on a parallel graduated track ● The source may be rotated through 180° and the angle measured using an integral scale. The power supplied to the lamp can be varied ● Filter plates of varying opacity and thickness are supplied 	01 Unit