

Appendix-I

Sr. No.	Name of the item with Specification	Qty.
1.	<p><u>Pulsating Heat Pipe (PHP):</u></p> <ol style="list-style-type: none"> 1. Evaporator section (Copper) Inner and Outer Diameter, 2.15 mm and 4.15 mm, Length of an evaporator, 100mm 2. Adiabatic section (Glass tube) Inner and Outer Diameter, 2.15 mm and 8 mm, Length of an adiabatic section 100 mm 3. Condenser section (Copper) Inner and Outer Diameter, 2.15 mm and 4.15 mm, Length of a condenser 80 mm Number of turns: 5 4. Control system for power supply (Input heat supplied is set through a Dimmerstat) Make: Apex, Range: 0–2 Amp, 0–230 V AC) (current and voltage at $\pm 0.5\%$ accuracy) 5. Two plate heaters (500 W) at the evaporator section with glass wool-based insulation material box 6. Orientation of PHP requires in the two axis (at a horizontal plane and vertical plane) <p><u>Other necessary instruments:</u></p> <ol style="list-style-type: none"> 1. K- type thermocouples at evaporator section and condenser section (Total = 10 and accuracy ± 0.5 °C) 2. Vacuum pump – Ex. oil rotary vacuum pump (up to 0.01 mbar and accuracy ± 0.5 %). 3. Pressure and temperature measurement Data Acquisition (DAQ) system. 4. Pressure transducer at condenser section. 	01