**1. Experimental Material and Reagent**

Paraffin Wax - 2Kg :: PCM

Polyurethane - 0.5kg :: Encapsulation Material

Gelatin -1Kg :: Encapsulation Material

Fatty alcohol ethoxylates - 0.5Kg :: Nonionic Surfactants

Isocyanates - 0.5Kg :: Crosslinking Agents

Toluene and Xylene - 2Kg :: Solvents

**2. Experimental Equipment**

Analytical Balances

Oven

Magnetic Stirrers

Sonicators

**3. Measurement Equipment**

Thermocouples

Thermogravimetric Analyzer

Moisture Analyzer

Scanning Electron Microscope

Differential Scanning Calorimeter