DEVELOPING ENCLOSURE

**Objective:** After doing test of Arduino system, the hardware setup is to be fitted in an easy-to-access enclosure.

**Process:**

Step 1: Discussing the need of an enclosure. Noting the safety points to be considered. Deciding the material of the enclosure- Acrylic

Step 2: Deciding the placement of the Arduino system, keeping in mind the accessibility & expansionability. Measuring the dimensions of the hardware. Marking the ports of the system.

Step 3: To meet the deadline, a suitable material which was available- Bakelite, was selected as the Material of Construction.

Step 4: The technician team built the enclosure which can be fitted in the heater system safely.

Step 5: The enclosure had an open-top. The team gathered foam used in packaging of material.

Step 6: The team cut the foam by taking measurements. A medium-sized foam sheet was laid down on the bottom of enclosure.

Step 7: The 3 hardware components placed inside are- Arduino, GSM module & Power suppy adapter were placed, as decided.

Step 8: After placing the components on a flat foam sheet, the gaps between the components were filled by foam (cut exactly equal to the gap size).

Step 9: The extra wire was coiled and pressed in the sides of foam.

Step 10: The components are covered with foam from 5 sides. Therefore, better insulation.

The hardware is working & packed inside an enclosure. Therefore, ready to be installed with the heater system.