**PCBs**

1. Decoupling capacitors are good
2. Make Track widths as wide as possible
3. Current Sensor Requires extra wide tracks
4. For AC Voltage sensor, make sure tracks are not underneath and keep a good clearance with the transformer
5. Make all chips (whichever available) through hole
6. Make all through hole components to be soldered on the bottom
7. Surface mount capacitors are too expensive so we have chosen to go with the through-hole ones.
8. We shall be using molex connectors

**Tasks**

Each PCB will have 4 sensors and 1 ADC on it.

**Saurab** – DC Current Board and Main Board

**Alex** – AC Board (2 AC Voltage Sensors and 2 AC Current Sensors)

**Kishan** – DC Voltage Board

**Board Details and Provisional Component parts**

**Main Power Board**

|  |  |  |
| --- | --- | --- |
| Battery and Socket for RTC | 1298246 (Farnell) | Through Hole |
| Recom SMPS x 2 | * **757-7239 (RS)** | Through Hole |

**AC Board**

**DC Current**

**DC Voltage**