Basic Functional Test for Newly Assembled PCB (1 off 2)

- 1. Do not connect any wires or battery to the IOT board.

- 2. Set Switch SW1 to "0 - Off/Charge" position.

- 3. Connect USB port of Arduino module to computer.

- 4. Load the firmware "Wireless_TX_Basic.ino" into the Arduino module.

- 5. If the firmware is successfully loaded and IOT board no hardware error, LED "DBG" should blink at 2 Hz rate. Also LED D_8 should lights up.

Basic Functional Test for Newly Assembled PCB (1 off 2)

- 6. Now connect the LiPo battery to PCB header X_2 (Batt), LED D_8 should continues to light up indicating that the LiPo battery is being charged.

- 7.LED D_8 would turn off when LiPo battery is fully charged.

- 8. Once the LiPo battery is partially charged for 15 minutes, set switch SW1 to "I – On" position.

  - LEDs 3.3 V (D_7) and 5.0 V (D_6) should light up, indicating presence of 3.3 V and 5.0 V supplies to the system.

  - LED "DBG" should continues to blink.

  - LED D_8 should not turn on.

- 9. Now the IOT module should be ready for use.