**Standard Operating Procedure for**

**Muffle Furnace**

**Purpose: Annealing of sample at high temperature to passivate all dangling bonds**

DO NOT open the chamber if the displays show more than room temperature ()

Specifications

1. Maximum temperature can be reached is

Procedure

1. Make sure main power switch is OFF
2. Open the chamber and place the sample inside the it and close the chamber properly
3. Switch ON the power supply
4. To set the temperature, there are two small knobs COARSE and FINE, COARSE is for rapid change and FINE is for slow change in temperature
5. Pressing the PUSH button and rotate the COARSE and/or FINE knob to set the temperature value
6. When the set temperature is lower than the actual temperature, only the LINE indicator will glow, else both LINE and LOAD indicator will glow
7. Once the set temperature is achieved, bring down furnace temperature to room temperature by setting the furnace temperature to room temperature
8. Don’t open the chamber until the furnace temperature has reached to room temperature
9. Now turn OFF the power supply