



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
BELAWADI, NAGUVANAHALLI POST, SRIRANGAPATNA TALUK
MANDYA-571438, KARNATAKA



1. Research Centre Advanced Research Lab Facility:

Research Lab: 13.32 Sq.ft : Inside Engineering Physics Lab (New Building)

Research Lab: 16.5 Sq.ft.: Main Building: In main building (1st Floor)

- i. Material preparation facilities using solid state route and Chemical wet method
- ii. Electrical and Magnetic Characterizations.

Sl. No.	Equipment	Specification	Manufacture
1.	Programmable High Temperature Furnace	(upto 1600 Deg C)	(Naskar& Company), Kolkatta
2.	Two Zone : Programmable High Temperature Furnace	(upto 1200 Deg C)~	Indfurr, Chennai
3.	Hydraulic Press with 12mm and 1 inch die.	10 Tone	Technosearch Instruments
4.	Analytical Balance	Sensitivity: 0.1 mg	Denver
5.	Hot Plate With Magnetic stirrer	5020, 10cm*10cm, Rugged Aluminium die casting housing, Acid & Alkali resistant glass cermaic Top.Electronic speed control from 100-1000 RP	Tarsson
6.	Microwave Influx	Microwave range	LG.
7.	Dry Box,	Usable Volume : 450 X 250 X 150 mm. Temperature : ambient to 45°C, Power : 230 V, 50 Hz, 100 W	Technosearch Instruments
8.	335, Temperature controller	Operates down to 300 mK with appropriate NTC RTD sensors,Two sensor inputs,Two configurable PID control loops providing 50 W and 25 W or 75 W and 1 W, Autotuning automatically collects PID parameters, Automatically switch sensor inputs using zones to allow continuous measurement and control from 300 mK to 1505 K, Custom display set-up allows you to label each sensor input, USB and IEEE-488 interfaces	Lakeshore, USA
9.	6221 constant current Source	Source AC currents from 4pA to 210mA peak to peak, 10MHz output update .Supports AC characterization of components and materials.Generates smooth sine waves up to 100kHz .	Kithley, USA
10.	2182 Delta mode Nano voltmeter,	1nV sensitivity, Typically just 15nVp-p noise at 1s response time, 40–50nV p-p noise at 60ms, Built-in thermocouple linearization and cold junction compensation	Kithley, USA

11.	Vacuum Pump	Rotary (10^{-3} mbar) and Diffusion (10^{-6} mbar),	Ran Vac, Bangalore
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FACILITIES AVAILABLES AT RESEARCH CENTER , MIT



High temperature furnace

Hydraulic Press & Dry Box

Analytical balance

Tubular furnace

