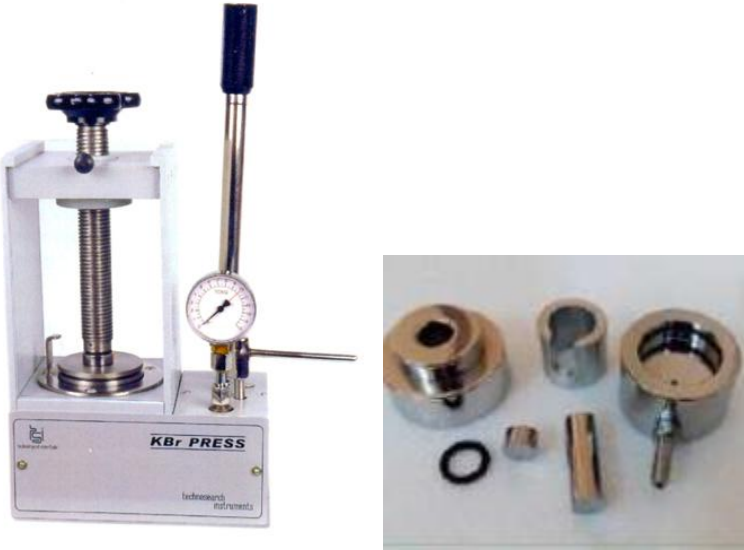


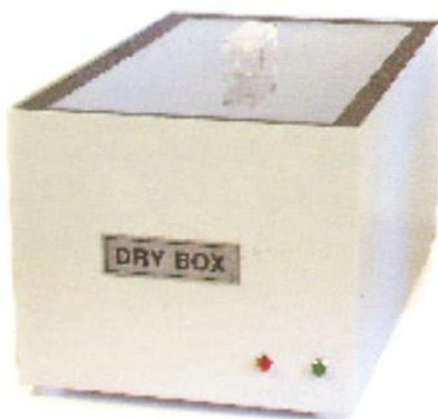
**STATE-OF-THE-ART ADVANCED RESEARCH LAB FACILITY ESTABLISHED
WITH THE RECEIVED GRANTS:**

1. Material preparation facilities using the solid-state route and Chemical wet method, equipped with			
Sl. No.	Equipment	Specification	Manufacture
1.	Programmable High-Temperature Furnace, (up to 1600 Deg C): Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE, BRNS, BARC Mumbai, to Dr. Vijaylakshmi Dayal  Naskar muffle furnace Max. Temp. up to 1600 °C		Naskar& Comp., Kolkatta

2.	Two Zone: Programmable High-Temperature Furnace, (up to 1200 Deg C)~ Acquired under: "SERB/EMR/2016/005424 Dt 21.11.2017, SERB-DST, New Delhi, to Dr. Vijaylakshmi Dayal  Indfurr tubular furnace Max. Temp. up to 1200 °C	Indfurr, Chennai
3.	Hydraulic Press with 12mm and 1-inch die, 10 Tone Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE, BRNS, BARC Mumbai, to Dr. Vijaylakshmi Dayal 	Technosearch Instruments

4.	Analytical Balance, Sensitivity: 0.1 mg Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE, BRNS, BARC Mumbai, to Dr. Vijaylakshmi Dayal SAB - 224CE 	Denver
5.	Hot Plate With Magnetic stirrer Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE, BRNS, BARC Mumbai, to Dr. Vijaylakshmi Dayal 	Tarsson
6.	Microwave Influx, Microwave Range Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE, BRNS, BARC Mumbai, to Dr. Vijaylakshmi Dayal 	LG.
7.	Dry Box, Usable Volume: 450 X 250 X 150 mm. Temperature : ambient to 45°C, Power : 230 V, 50 Hz, 100 W Acquired under: "Young Scientist Research Award(YSRA)2011/20/37P/01/BRNS/0075 Dt. 13.04.2011, DAE,	Technosearch Instruments

	BRNS , BARC Mumbai, to Dr. Vijaylakshmi Dayal	
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2. Electrical Characterizations.

Automated Home Made Resistivity Setup upto LN2

Acquired under: "SERB/EMR/2016/005424 Dt 21.11.2017, **SERB-DST**, New Delhi, to Dr. Vijaylakshmi Dayal



Equipped with

1.	335, Temperature controller	Lakeshore, USA
2.	6221 constant current Source and 2182 Delta mode Nano voltmeter,	Kithley, USA
4.	2450 Source meter	Kithley, USA
4.	Vacuum Pump Rotary (10^{-3} bar) and Diffusion (10^{-6} bar),	Ran Vac, Bangalore