


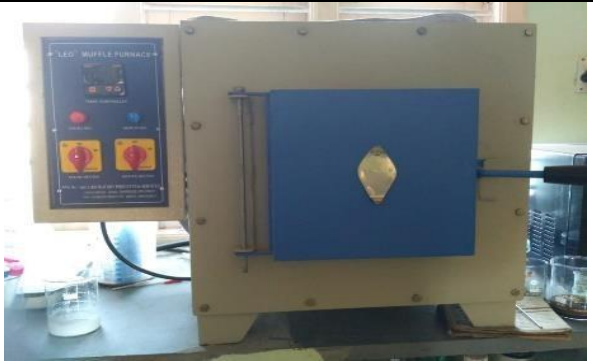




# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE



## Department of CHEMISTRY - Research Facilities

Sl. No.	Name of the instrument/equipment	Make and Model	Cost (INR ₹)	Agency of Funding	Specializations	Brief Description	Instrument / Equipment
1	UV-Vis Spectrophotometer	Shimadzu and UV- 1800	3,88,500	MITS	Double Beam / PD Array	For Optical and kinetics measurements	
2	Digital Balance	Shimadzu and BL220H	35,600	MITS	3-Digit precision	For Weighing micrograms	
3	Ultra-sonicator	Johnson Plastasonic (ULP500)	2,51,152	UGC	Probe Type	For ultrasonic liquid reactions	


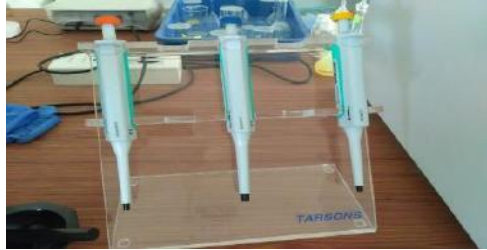

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4	Muffle Furnace	LEO-MF	27,480	UGC	Up to 900 C	Dual set Programmable	
5	Dielectric constant kit	Mittal E 1718275	31,357	UGC	Dual mode	For solid samples	
6	Hydraulic press	Athens Tech	41,720	UGC	15 Tons	With 4 different types of Sample dye	




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7	ICE Maker	LABMAN-LMIM-15	27,000	MIT S	0.625 kg/Hr	3 different cube size	
8	Water Distillation Unit	Jaykin-WDU	25,000	UGC	3.5Ltrs/Hr	double jacket condenser with ceramic coil	





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S.No	Name of the equipment	Make and Model	Cost (INR)	Date of purchase	Agency of funding	Department	Location of equipment	Specifications	Brief description	Equipment
9	UV-Cabinet	Deepvision	₹ 6,000	21-02-2018	UGC	CHEM	Solar Lab	Dual wavelength	For Chromatographic Development	
10	Micropipette	Gensleek and MB/MC/MD	₹ 10,500	21-02-2018	UGC	CHEM	Solar Lab	2-20/20-200/100-1000 Microliters'	For low volume sample preparation	
11	High speed centrifuge	Remi R-24	₹ 97,230	15-03-2018	UGC	CHEM	Solar Lab	with Rotors of 3 different volume	programmable with up to 24k rpm	
12	Magnetic stirrer	Remi 2MLH	₹ 14,140	15-03-2018	UGC	CHEM	Solar Lab	With RPM controller and heating	suitable for reactions up to 500 ML	


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13	Universal Testing Machine	Tinius Olsen	₹ 9,49,949	11 <sup>th</sup> June 2019	DST-SYST-SEED	CHEM	RB108- Polymer and Materials Lab	5kN	To measure mechanical properties of paper and polymers	
14	Laser Particle Sizer	LS609, OMEC instruments.	₹ 7,71,750	16 <sup>th</sup> May 2019	Dassault Systemes Foundation	CHEM	RB108 Polymer and Materials Lab	Laser light scattering/Mie Scattering based Determination of Size	TO measure polymers and nanomaterials/ particle sizes	

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13	Hydrothermal Reactor	Fazil EngWorks-SSR 50/100	₹ 11,210	23-06-2018	UGC	CHEM	Solar Lab	Fixed volume reactor	suitable for Hydrothermal reactions in pilot	
14	Ultrasonic Bath	ANM Ind USC-100	₹ 11,471	10-12-2018	UGC	CHEM	Solar Lab	Water based Sonicator cleaner	for Cleaning and small scale reactions	
15	Vacuum Pump	TID 25	₹ 8,936	10-12-2018	UGC	CHEM	Solar Lab	Membrane based pump	For moderate vacuum applications	
16	Muffle Furnace2	SWOBAL MF3000W	₹ 1,25,661	29-06-2017	UGC	CHEM	Solar Lab	Up to 1300 °C	With programmable and dual set mode	

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17	pH Meter	Labtronics LT10	₹ 6,800	09-03-2018	UGC	CHEM	Solar Lab	For 1-14 range of pH measurement	For measuring pH of liquid sample	
18	Mechanical Stirrer	Remi RQG-129/D	₹ 14,700	15-03-2018	UGC	CHEM	Solar Lab	with adjustable motor height and controller for RPM	Used for stirring liquid samples for Homogenization	