

List of Equipments for Chemistry Laboratory of NISER

- 1. Analytical balances Single pan (100g 0.1 mg, 500g 1mg)
- 2. Colorimeter/Visible Spectrophotometer (~400nm 800nm, class room type)
- 3. UV-Visible Spectrophotometer 200 900 nm (Scanning facility with temperature controlled cell block, class room type)
- 4. UV-visible NIR Spectrophotometer (200nm 1800nm, with scanning facility and thermostable cell block, research type)
- 5. Constant temperature bath $(10^{\circ} 100^{\circ}C)$, with digital display of temperature, 15-20 lt., $\pm 0.05^{\circ}C$ or $\pm 0.1^{\circ}C$ precision with liquid circulation facility, for research)
- 6. Digital electronic stop watch
- 7. Stop clock (with display of time in minutes and hour)
- Constant temperature bath (ambient to 100C) with liquid circulation facility (class room type, 15-20 lt capacity)
- 9. Hot plate with magnetic stirrer (with Teflon coated stirring bead)
- 10. Magnetic stirrer (with Teflon coated stirring bead)
- 11. Melting point apparatus
- 12. Hot air oven (with digital display of temperature)
- 13. pH/Ion Meter (Specs: Precision +/- 0.01 PH with (both conventional & microprocessor based_ indigenous)
- 14. PH/ION Meter Orion/Radio Meter PH Meter (Specs: Precision +/- 0.002PH / +/- 0.005 units (Imported))

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- 15. Voltage Stabilizer Servo Controlled (2 K watt, 5 K watt)
- 16. Heating mantle 1 litre,500ml, 250ml
- 17. UV Chamber TLC
- 18. Water Distillation assembly 20L/h Double distillation All Borosil or Pyrex glass (Capacity ~ 10 liters/hr of doubly distilled water.
- 19. Safety Glasses
- 20. Water Bath : Cu. make with six holes
- 21. Single type Cu. make with rings.
- 22. Fume Hood
- 23. Vacuum Pump (oil free)
- 24. Ice make refrigerator
- 25. A stopped flow spectrophotometer with rapid scan and temperature jump attachment
- 26. Magnetic Balance: Faraday
- 27. Infra red Spectrophotometer

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