

Details of Instruments/ equipments to be purchased/required for college Central Research Laboratory (Centre for Scientific Research) as received from different Science Departments (Botany, Chemistry, Zoology, Physics, Statistics)

| S. No. | Name instruments/ equipments | Specifications/company | Quantity required | |
|--------|--|---|-------------------|--|
| 1. | UV-1800 Spectrophotometer | Shimadzu | 01 | |
| 2. | Microprocessor based Digital Flame Photometer | With filters (Na & K) 20×4 alphanumeric LCD Display, Sample storage capacity 700 with date/time Clock with RS 232 Computer Interface Systronics, model:130 | 01 | |
| 3. | Digital pH meter, Conductivity and Temperature Meter | For measurement of pH, conductivity & Temperature 3 ½ digit LED display with pH combination electrode, conductivity cell and temperature probe Systronics, model:372 | 01 | |
| 4. | Digital water and soil analysis kit | 3½ digit LED display covering (9 parameters) pH, ORP, Conductivity, TDS, Cell constant, Sanitary, Turbidity, Dissolved Oxygen and Temperature. Battery cum mains operated, complete with accessories, fitted in briefcase Systronics, model:371 | 01 | |
| 5. | Thermo Scientific Cyber Scan PC 650 | Cyber Scan ECPCWP65043K | 01 | |
| 6. | Water bath incubator/ Shaker | Lawrence and Mayo | 01 | |
| 7. | Double Distillation Plant | Infusil Bangalore Model: | 01 | |
| 8. | Digital Electronic Balance (Top Pan) | Shimadzu BL220H 200g x 0.001 g | 01 | |
| 9. | Closed circuit video microscope | Trinocular Research Microscope with 12.1MP camera and colour monitor | 01 | |

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|-----|--|--|---------|--|
| | | (Labo med/getner) | | |
| 10. | Magnetic Stirrer | Temp. Range: Above ambient to 160°C; 2. Heating coil: Strip heater; 3. Temp. controller: Digital; 4. Material: Mild steel with powder coated body; 5. Stirring capacity: 2 litres; 6. Stirring speed: 100 – 1400 rpm; 7. Working condition: 4 - 60°C; 8. Input voltage: 230V, 50Hz, AC supply REMI 2MLH | 01 | |
| 11. | TLC Aluminum Sheets | Sigma-aldrich (Z740226) binder Polymeric fluorescent indicator | 01 | |
| 12. | Soxhlet apparatus with heating mantle for each | Capacity 2 litre Popular India | 01 | |
| 13. | Tissue homogenizer | Remi | 01 | |
| 14. | British Standard Test Sieve (Mesh No. 300) | Indian Make Brass with diameter 8 inches | 01 | |
| 15. | 2-D electrophoresis set Complete Set | Sigma (Z340006) | 01 | |
| 16. | Microtome with knife and hone | Medimeas Model NRM-1120 | 01 | |
| 17. | Glass Dessicator | 100mm non vacuum 100mm vacuum | 01/each | |
| 18. | Stereoscopic zoom microscope | Olympus Mag Zoom TZM6 | 01 | |
| 19. | Hydroponic system | Hydroponic Tray (1.5×2), Hydroponic Rack GI, Fogger, Auto timer, Shade net 90%, filter, Lateral pipe, Pump set (0.5 HP), Plumbing material, Water conditioner, | 01 | |

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|--------------|---|---|-----------------|--|
| | | germination pot, packing charges | | |
| 20. | Chromatography Columns | Effective : Dia (mm) Length (cm) 20 10 30 15 50 20 60 25 60 40 | 01 of each size | |
| 21. | Laptop for conducting Research in Statistics | 3.5 GHZ Intel Core i5 7 th Gen Processor 8GB DDR4 RAM 1TB 5400 rpm, Serial ATA Hard Drive, 15.6 inch screen, AMD Radeon TM R7 M445 Graphics with 4G GDDR5 Graphics Memory 4GB, Graphics Window Operating System, | 01 | |
| 22. | Desktop for conducting Research in Physics | Dell Inspiron i3847; Windows 7 Pro, Intel Quad core i7-4790 Processor 3.6 GHZ,16GB RAM,2TB Hard Drive, DVD Drive | 01 | |
| 23. | COSMOL Software-5.2a | Fluid dynamics and electric field modules | 01 | |
| 24. | Desktop | HP All in One Desktop Intel core i5, 4GB RAM, 1 TB HDD (Windows 10) | 02 | |
| 25. | HP Laserjet Printer/Sanner | HP Laserjet Printer M1005 | 01 | |
| 26. | Heidolph Rotary Evaporator (Heidolph Germany) | Hei-VAP Advantage Distimatic Hand Lift 2 Litre | 01 | |
| Total | | | | |

**List of the instruments/chemicals/kits required for establishment of Hematology
Laboratory (Zoology)**

| S. No. | Items | Supplier | Quantity | |
|---------------|---------------------------|-----------------|--------------------------|--|
| 1. | Haemocytometer | --- | 1 full set with pipettes | |
| 2. | Blood group Test kit | --- | 06 kit @490 | |
| 3. | Leishman's stain solution | Oxford | 250 ml | |
| 4. | Geimsa stain solution | Oxford | 250 ml | |
| 5. | Hayems diluting fluid | Oxford | 500 ml | |
| 6. | W.B.C diluting fluid | Oxford | 500 ml | |
| 7. | Haemoglobinometer | Top syringes | 01 | |
| Total | | | | |