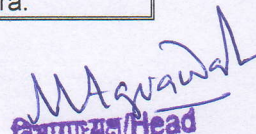
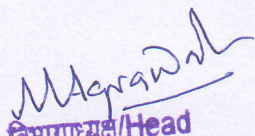


3. Technical Specifications

| Item No | Name of Goods or Related Service | Technical Specifications and Standards |
|---------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Greenhouse Gas Analyzer | <ol style="list-style-type: none"> The greenhouse gas analyzer should be equipped to measure three greenhouse gases (CO₂, CH₄ and N₂O) simultaneously from a matrix of atmospheric air at ambient humidity and temperature ranges. High sensitivity performance for each gas at ambient temperature and pressure. Analysis should be accomplished with automatic sample introduction with high precision. Should have an injection port, filters, gas connections (Air, N₂, H₂, He, Ar), specific injectors, three detectors (TCD, FID & ECD) and multiple valves and columns for separation and detection of carbon dioxide, methane and nitrous oxide. There should be an automatic back-flush system for removing water as contaminant. Online UPS, display (PC) and data storage device (on device and online). Data analysis software. <ul style="list-style-type: none"> Instrument should be quoted with three year warranty. Suitable voltage stabilizer should be quoted. Quotation should be FOR Banaras Hindu University basis. |
| 2. | GC-MS with Triple Quadrupole | <ol style="list-style-type: none"> Injector with split/splitless able to operate with capillary column. Detector for measurement of lipids, FAMES, pesticides from different environments ; FID. Columns compatible for above mentioned detectors including Universal detector. Carrier gas cylinders and complete operational set-up including PC with on-line UPS connectivity. MS-Libraries with latest version. <ul style="list-style-type: none"> Instrument should be quoted with three year warranty. Suitable voltage stabilizer should be quoted. Quotation should be FOR Banaras Hindu University basis. |
| 3. | Fluorescence Spectrophotometer | <ul style="list-style-type: none"> Enhanced sensitivity and dynamic range enable fluorescence as well as bioluminescence, chemiluminescence and electro-luminescence measurements. High-speed 3D scanning for rapid acquisition of 3D spectra. Spectral-corrected excitation and emission spectra. |


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| | | <ul style="list-style-type: none"> • Fluorescence quantum yield and fluorescence quantum efficiency measurements. • 96-well microplate reader. • Instrument should be quoted with three year warranty. • Suitable voltage stabilizer and PC should be quoted. • Quotation should be FOR Banaras Hindu University basis. |
| 4. | CHN ANALYZER | <ol style="list-style-type: none"> 1. Multiple modes of operation for analysing CHNS. 2. Capability to analyse variety of samples including solids, liquids, volatile, etc. 3. Auto-samplers for automatic weight transfer/entry. 4. Automatic shutdown and wake-up times and dates. 5. Column Switching Accessories. 6. Easy data handling software. 7. Capable of upgradeability. 8. Rapid analysis time. <ul style="list-style-type: none"> • Instrument should be quoted with three year warranty. • Suitable voltage stabilizer and PC should be quoted. • Quotation should be FOR Banaras Hindu University basis. |
| 5. | HPLC | <p>Pump Max. Operating pressure > 400 Bar Online Vacuum Degasser Auto Sampler with temperature control PDA Detector Wavelength range: 190-1100 nm Column C8 and C18 Fraction Collector Maximum number of fractions: 100 or more with PC and Software for operation</p> <ul style="list-style-type: none"> • Instrument should be quoted with three year warranty. • Suitable voltage stabilizer should be quoted. • Quotation should be FOR Banaras Hindu University basis. |


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