

Section V: Schedule of Requirements

6.1 List of Goods & Delivery Schedule

Unit:- Head Office, Ocean University of Sri Lanka, Mattakkuliya.

Line-Item No	Description of Goods	Final Destination	Delivery Date	
			Purchaser's Allowed Delivery Date	Bidder's Offered Delivery Date
	<ol style="list-style-type: none"> 1. Fume Hood 2. Top Loading Balance (Professional Level) 3. Portable DO meter 4. Hot Air Oven 5. Water Bath 6. Binocular Microscope 7. Stereo Zoom Microscope 8. Autoclave 9. Mini Centrifuge (Refrigerated) 10. Desiccator 11. Counting chambers Sedgewick Rafter 12. Surface Plankton Net 13. Micro Pipette sets (Ranges: 0.5–10 µL, 10–100 µL, and 100–1000 µL) 14. Scientific Calculator 15. Safety Goggles 16. Burette/Funnel Stand 17. Spirit lamps 18. Tripod Stand 	<p>***Items which are required to Trincomalee & Jaffna Regional Centers should deliver to the Main Stores, Crow Island, Mattakkuliya, Colombo – 15.</p> <p>***Items which are required to Panadura, Galle & Tangalle Regional</p>	From the date of Acceptance Maximum 90 days	

	19. Crucible Tongs 20. Crucible with lid 21. Forceps 22. Chambers CE Neubauer-imp. w/out 23. Gauge Wire Iron packets 24. Vortex Mixer 25. Desiccator (300mm) 26. Blender 27. Hand sealer 28. Mini Biological Safety Cabinet 29. Gass Cylinder 30. Electric Pressure Cooker 6L 31. Spectrophotometer 32. Secchi disk 33. Vacuum Filtration unit 34. Colorimeter 35. Digital stirring hot plate 36. Grab sampler 37. Wooden Herbarium Press 38. Spectrophotometer Spectrophotometer Spectrophotometer 39. Power Protection (Online UPS) 40. Buchner Funnel 41. Benchtop pH/Ion Meter 42. Semi-Automated Kjeldahl Analysis System 43. Soxhlet Extraction Apparatus (3-Place unit) 44. Laboratory Muffle Furnace 45. High-Performance Fume Hood 46. Rutner sampler 47. Heating mantle 48. Laboratory Water Distiller 49. Top loading balance 50. BOD Bottles	Centers should deliver to the respective locations		
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51. BOD Incubator (Refrigerated)			
52. Aspirator Bottles			
53. Aspirator Bottles			
54. Burettes and Burrete Stand with Clamp			
55. Muffle furnace			
56. Thermometer (digital)			
57. Water quality portable multi meter			
58. Centrifuge			
59. Magnetic stirrer			
60. Dissecting Set (Fish)			
61. Dissecting Tray with Wax			
62. Thermometer			
63. Water Quality Testing Meter			
64. Refractometer			
65. Analytical Balance			

Name of the Bidder :-

Address of the Bidder :-

Company Seal :-

Date :-

Section V

6.2 Technical Specification & Compliance - Laboratory Equipment for Regional Centers of the University

Item No.	Component Description	Minimum Specifications	Quantity	Bidder's Response (Yes/No)	If "No" comments on the offer
1	Fume Hood	Manual control system; Approx. dimensions: Overall 1750×885×2245 mm, Work chamber 1500×640×1240 mm; Cold rolled steel body with powder coating; Chemical-resistant phenolic resin work surface; 5 mm toughened glass adjustable sash (min opening 690 mm); Air velocity 0.5–0.8 m/s; Noise <65 dB; Light ≥1000 lux; Includes base cabinet (anti-corrosion) or stand; Utilities: sink (PP), gas tap, vacuum/fluid lines; Power: 220–240V, 50/60 Hz with 4 sockets; Alarm system for airflow; Includes external ducting with PP blower & 225 mm PVC duct; Warranty: minimum 24 months (parts & labor); Includes installation, training, calibration, and preventive maintenance during warranty; Spare parts availability for 5 years;	01 (Jaffna)		

		<p>Manufacturer authorization & brochures required</p> <p>Manual control system; Approx. dimensions: Overall 1750×885×2245 mm, Work chamber 1500×640×1240 mm; Cold rolled steel body with powder coating; Chemical-resistant phenolic resin work surface; 5 mm toughened glass adjustable sash (min opening 690 mm); Air velocity 0.5–0.8 m/s; Noise <65 dB; Light ≥1000 lux; Includes base cabinet (anti-corrosion) or stand; Utilities: sink (PP), gas tap, vacuum/fluid lines; Power: 220–240V, 50/60 Hz with 4 sockets; Alarm system for airflow; Includes external ducting with PP blower & 225 mm PVC duct; Warranty: minimum 24 months (parts & labour); Includes installation, training, calibration, and preventive maintenance during warranty; Spare parts availability for 5 years; Manufacturer authorization & brochures required</p>			
2	Top Loading Balance (Professional Level)	<p>Capacity ≥220 g; Readability 0.0001 g; Repeatability 0.0001 g; Linearity ±0.2 mg; Min. load 10 mg; Response time ≤2 sec; Electromagnetic force restoration weighing sensor; Auto/self-calibration</p>	01 (Jaffna)		

		(temperature/time-based); Stainless steel pan (~90 mm Ø); Multiple weighing modes (standard, counting, %); Interfaces: USB & RS232; GLP/ISO compliant; Backlit display; Operating temp. 18–30°C; Power: 220–230V, 50/60 Hz; Includes installation & documentation; Warranty: minimum 24 months; Spare parts availability; Manufacturer authorization required			
3	Portable DO Meter	Portable unit for field & lab use; Optical luminescence DO probe (non-consumptive); Measurement range: 0–20 ppm / 0–200% or better; Accuracy ±0.2 ppm; Resolution 0.01 ppm; Automatic compensation for temperature, salinity, and air pressure; Temp. range 0–50°C; Response time ≤30 sec; Automatic calibration (2-point preferred); Data storage ≥500 readings with date/time; USB connectivity; Backlit LCD display; IP57 or better; Power: battery operated; Includes carrying case, probe, cables, and software; Certification: CE/RoHS; Warranty (meter & probe); Manufacturer authorization required	01 (Jaffna)		

4	Hot Air Oven	Capacity ≥ 40 L; Temperature range 50–200°C; Temperature accuracy $\pm 2^\circ\text{C}$ with PID controller; Inner dimensions approx. 350×350×350 mm; Includes 2 stainless steel shelves; Steel exterior with corrosion-resistant coating; Heater power ~ 1 kW; Power supply 230V, 50 Hz, single phase; Includes installation; Warranty minimum 12 months; Spare parts availability; Manufacturer/local agent authorization required	2 (Jaffna – 01 Trinco – 01)		
5	Water Bath	Capacity ~ 20 L; Temperature range ambient +5 to 99.9°C; Resolution 0.1°C; Accuracy $\pm 0.3^\circ\text{C}$; Uniformity $\pm 0.3^\circ\text{C}$; PID temperature control with digital display; Stainless steel (SS 304) inner chamber (seamless) and exterior; Heater power ~ 1 kW; Safety features: dry-run and over-temperature protection; Timer function; Includes lid and accessories; Power supply 230V, 50 Hz; Certification: CE, ISO compliant; Includes installation and	01 (Jaffna)		

		documentation; Warranty minimum 12 months; Spare parts availability; Manufacturer/local agent authorization required		
6	Binocular Microscope	Brightfield microscope with infinity-corrected optics; Binocular head (360° rotatable, 30° inclined) with interpupillary adjustment (48–75 mm) and diopter adjustment; Eyepieces 10× (FN ≥20, high eyepoint); Magnification range 40×–1000×; Quadruple revolving nosepiece; Objectives: 4×, 10×, 40×, 100× (oil) Objective type: Plan Achromact, anti-fungus treated; Coaxial coarse & fine focusing with stop mechanism; Double-layer mechanical stage; Durable metal construction; Includes installation and documentation; Warranty minimum 12 months; Manufacturer/local agent authorization required	12 (Jaffna – 04 Galle – 02, Trinco – 02, Tangalle – 04)	

7	Stereo Zoom Microscope	<p>Brightfield stereo microscope with Greenough optical system; Binocular head (45° inclined, 360° rotatable) with interpupillary (≈51–75 mm) and diopter adjustment; Eyepieces 10× (FN ~21, high eyepoint); Zoom magnification range ~7×–45×; Working distance ~100 mm; Parfocal achromatic optics, anti-fungus treated; Coarse focusing; Fixed arm stand with stage (≈100 mm) and specimen clips; LED illumination (transmitted) with brightness control; Power supply with rechargeable battery option; Includes installation and documentation; Warranty and spare parts availability;</p>	03 (Jaffna – 01, Panadura – 02)		

		Manufacturer/local agent authorization required		
8	Autoclave	<p>Portable Top-loading autoclave for small-load sterilization; Capacity ≤16 L; Stainless steel chamber and lid (seamless construction); Operating temperature ~121°C with timer control; Working pressure ~15 PSI; Digital controller with automatic cycle and timer; Safety features: over-pressure protection and auto shut-off; Efficient sealing with gasket; Power supply 230–240V, 50/60 Hz, single phase; Includes basic accessories, installation, and documentation; Certification: CE compliant; Warranty minimum 12 months; Spare parts availability;</p>	01 (Jaffna)	

		Manufacturer/local agent authorization required		
9	Mini Centrifuge (Refrigerated)	Capacity up to 18 × 1.5/2.0 mL tubes; Speed range up to ~14,000 rpm; Max RCF ~16,800 × g; Refrigerated with temperature range ~0°C to +40°C; Timer with continuous run function; Low noise operation (<60 dB); Aerosol-tight rotor for safety; Digital control with automatic lid lock/release; Power supply 220–240V, 50/60 Hz; Includes rotor and basic accessories; Includes installation and documentation; Warranty minimum 24 months; Manufacturer/local agent authorization required	01 (Jaffna)	

10	Desiccator	Non-vacuum desiccator (no stopcock); Made of borosilicate glass (3.3) with high chemical and thermal resistance; Ground flat flange with lid (interchangeable knob); Autoclavable; Suitable for drying and sample storage; Includes standard components (excluding discs); Spare parts availability	01 (Jaffna)		
11	Counter Chambers Sedgewick Rafter	Chamber dimensions 50 × 20 × 1 mm (1 mL capacity) with 1 mm ruled grid; Made of glass; Supplied with compatible cover glass (~60 × 30 mm); Suitable for plankton/microorganism counting	03 (Jaffna – 01, Panadura – 01, Galle – 01)		
12	Surface Plankton Net	Standard plankton net with stainless steel ring and conical net; Mesh size ~55 µm (for phytoplankton collection); Synthetic mesh material; Includes removable collection bucket with sieve window and stopcock; Suitable for qualitative surface sampling; Durable construction for field use; Includes basic accessories; Manufacturer authorization required	02 (Jaffna – 01, Tangalle – 01)		

13	Micropipette sets (Ranges: 0.5-10 μ L, and 100-1000 μ L	Adjustable volume micropipette with digital volume setting; Each set comprises three pipettes. Pipette Ranges: 0.5–10 μ L, 10–100 μ L, and 100–1000 μ L.; Accuracy $\leq \pm 1\%$ and high precision; Fully autoclavable (121°C, 20 min); Chemically resistant construction with corrosion-resistant piston (e.g., stainless steel/PTFE); Compatible with standard tips; Ergonomic single-hand operation with tip ejector; Suitable for precise liquid handling; Includes documentation; Calibration support available; Warranty minimum 12 months; Spare parts availability; Manufacturer/local agent authorization required	04 (Jaffna – 03, Trinco – 01)		

14	Scientific Calculators	Non-programmable scientific calculator (equivalent to Casio fx-991CW or similar); ≥ 600 built-in functions; High-resolution display; Dual power (solar + battery); Supports advanced mathematical and statistical functions; Suitable for academic/examination use; Includes user manual; Warranty; Manufacturer authorization required	10 (Jaffna)		
15	Safety Goggles	Anti-splash, enclosed, dust-proof safety goggles; Clear lenses with wide field of vision; Comfortable adjustable fit; Complies with EN 166 / CE standards	15 (Jaffna)		
16	Burette/Funnel Stand	Metal stand with heavy, stable base and vertical rod (~60–90 cm); Adjustable clamp with rubber-coated	15 (Jaffna)		

		grip; Suitable for holding standard burettes (25–50 mL); Stable, corrosion-resistant construction			
17	Spirit lamps	Made of soda-lime glass; Capacity ~100 mL; Supplied with cap, cotton wick, and holder; Suitable for laboratory heating applications	10 (Jaffna)		
18	Tripod Stand	Construction: Zinc-plated cast iron top; 15cm Outer Diameter. Dimensions: Approx. 21cm height.	05 (Jaffna)		
19	Crucible Tongs	Material: Chrome-plated steel. Design: Straight jaws, 15 cm length.	14 (Jaffna - 10, Galle – 04)		
20	Crucible with lid	Material: High-grade porcelain (ceramic), Surface: Glazed (inside & outside except bottom), Capacity: 25 mL, working temperature: 1000–1100 °C, Color: White	06 (Galle)		
21	Forceps	Material: High-quality stainless steel. Design: Straight, pointed tips, length 115 mm.	20 (Jaffna - 10, Tangalle – 10)		
22	Chambers CE Neubauer-imp. w/out	Design: Improved Neubauer counting chamber; Dark line. Grid: 3 x 3 mm total area with 0.1 mm depth.	05 (Jaffna)		
23	Gauge Wire Iron packets	Dimensions: 15 cm square. Features: High-temperature ceramic center for uniform heat distribution.	10 (Jaffna)		

24	Vortex Mixer	Speed range: Adjustable from 0 to 2,500 rpm, Toch or continuous operation, 230 V, 50 Hz	02 (Panadura – 01, Trinco – 01)		
25	Desiccator	Diameter- 300mm	01 (Panadura)		
26	Blender	Mixer Grinder, 3 Stainless Steel Jars, RPM: 20000, Water Drain System	01 (Panadura)		
27	Hand sealer	4-inch sealing length. 2mm sealing width	01 (Panadura)		
28	Mini Biological Safety Cabinet	Internal work area width -3ft, Class II Type A2 Mini Biological Safety Cabinet, centrifugal fan with automatic speed compensation, H14 HEPA filter, Motorized or manual sliding UV-resistant tempered glass sash, Integrated UV Germicidal System. 02-years warranty.	02 (Panadura – 01, Trinco – 01)		
29	Gas Cylinder	12.5 Kg	01 (Panadura)		
30	Electric Pressure Cooker 6L	Stainless steel outer body, 32.5D x 21W x 19.2H Centimeters	01 (Panadura)		
31	Spectrophotometer	Visible Range Spectrophotometer, Bandwidth ≤ 6 nm, Wavelength Range 350-1020nm. Digital Lab Tungsten Lamp	01 (Panadura)		
32	Secchi disk	9-inch Secchi Disc with graduated String	02 (Panadura – 01,		

			Tangalle – 01)		
33	Vacuum Filtration unit	Complete Vacuum Filtration Kit with Filtering Flask, Hand Vacuum Pump and Buchner Funnel (250 ML),	01 (Panadura)		
34	Colorimeter	Portable Colorimeter Color Analyzer, Digital, Measuring Aperture 8mm, Color Difference Meter, High-resolution digital color display (minimum 2-inch) showing color values and difference charts. Rechargeable Lithium-ion battery with a compatible 230V, 50Hz charging adapter.1- 2 Years Comprehensive Warranty.	01 (Panadura)		
35	Digital stirring hot plate	Top Plate Material: Ceramic-coated or tempered glass / stainless steel, Plate Size: Approximately 135–180 mm diameter (or equivalent square size), Temperature Range: Ambient to 300 °C, Temperature Accuracy: ±1 °Overheat Protection: Automatic cut-off with warning indicator, Stirring Speed Range: 100 to 1500 rpm,Maximum Stirring Volume: Up to 10L (water), Power Supply: 230 V, 50 Hz, digital.	01 (Panadura)		
36	Grab sampler	3L Sediment Sampler, Stainless Steel	01 (Panadura)		

37	Wooden Herbarium Press	EISCO Wooden Herbarium Press Frame: 12 x 18 inches with 2 Buckle Straps	01 (Panadura)		
38	Spectrophotometer – Double Beam UV-Vis, 2 nos. Quartz Cuvettes (10 mm), 04 nos Optical Glass Cuvettes (10 mm)	UV-Vis Spectrophotometer (190–1100 nm), double beam. Spectral bandwidth 1.0 nm or better; wavelength accuracy ± 0.3 nm or better; wavelength repeatability ± 0.1 nm or better; stray light $\leq 0.02\%$ (at 220 nm and 340 nm). Photometric range -4.0 to 4.0 Abs or better. Automatic lamp switching (deuterium and tungsten/halogen). Instrument shall include built-in performance verification and support external validation using certified reference materials. Calibration must be traceable to SI units and carried out by a Sri Lanka Accreditation Board accredited laboratory. Sample holder compatible with 10 mm cuvettes (quartz and optical glass). Supply with quartz and optical glass cuvettes. Supplier shall provide IQ/OQ documentation, wavelength verification certificate, and local service support. Annual maintenance and calibration costs to be clearly indicated. Bid shall itemize costs for instrument, cuvettes, and accessories. 3 years warranty.	01 (Galle)		

		Matched Pair (02 units) of Quartz Cuvettes (10 mm) – Mandatory for UV/Nitrate testing.	02 (Galle)		
		Matched Pair (02 units) of Optical Glass Cuvettes (10 mm) – For Visible/Ammonia testing.	02 (Galle)		
39	Power Protection (Online UPS)	Online (double conversion) UPS, minimum 3 kVA capacity, pure sine wave output, zero transfer time. Input 160–300 V AC, output 230 V $\pm 1\%$, frequency 50/60 Hz. THD $\leq 3\%$. Backup time minimum 15 minutes at 50% load. Equipped with maintenance-free batteries, LCD display, overload, short circuit, surge protection, and automatic bypass. Minimum 1 year warranty.	01 (Galle)		
40	Buchner funnel	Excellent resistance to acids and alkalis. Thermal Stability: Can typically withstand temperatures up to 1000°C Usually glazed inside and out (except the rim)	01 (Galle)		
41	Benchtop pH/Ion Meter	Benchtop pH/Ion Meter with measurement range -2.00 to 20.00 pH, resolution 0.001 pH, and accuracy ± 0.002 pH or better. Calibration: Minimum 3–5 point automatic calibration using standard buffer solutions (pH 4.01, 7.00, 10.01 or equivalent). pH buffers must be NIST or DIN	01 (Galle)		

		<p>traceable</p> <p>Temperature: Automatic temperature compensation (ATC) with temperature measurement range 0–100°C.</p> <p>Sensor: Glass-body combination pH electrode with ATC probe.</p> <p>Features: Digital display, data storage and/or USB interface with GLP compliance.</p> <p>Calibration certificate: Traceable to international standards through Sri Lanka Accreditation Board accredited laboratory or equivalent. minimum 2-year warranty.</p>			
42	Semi-Automated Kjeldahl Analysis System	<p>semi-automated Kjeldahl analysis unit designed for nitrogen/protein determination. 12 positions or higher.</p> <p>TECHNICAL REQUIREMENTS*<u>Semi-Automated Kjeldahl Distillation 1 Unit.</u></p> <p>Measuring range: 0.1–240 mg N or better, Distillation time: 3–6 minutes per sample or better, Recovery: $\geq 99.5\%$, Reproducibility: RSD $\leq \pm 1\%$</p> <p>Automatic NaOH addition and controlled steam distillation, Operator-controlled operation with adjustable parameters</p> <p>* Digestion Unit</p>	01 (Galle)		

		<p>12-position heating block Temperature range up to 450°C or better Accuracy ±1°C or better Compatible with 300 mL tubes * Accessories Borosilicate digestion tubes (300 mL) – 12 Nos Reagent tanks (NaOH, boric acid, waste) – 01 set Tubing, connectors–01set *Exhaust / Scrubber System Basic fume neutralizer: INSTALLATION AND COMMISSIONING Delivery, installation, testing, commissioning and operational demonstration at site. CALIBRATION AND VALIDATION IQ/OQ documentation, Performance verification Calibration traceable to SI units via accredited authority (e.g., SLAB or equivalent) Minimum 2-year warranty. Annual maintenance and calibration cost to be quoted separately.</p>			
43	Soxhlet Extraction Apparatus (3-Place unit)	<p>Complete Set (Consisting of an Extraction Body, Condenser, and Boiling Flask.), Boiling flask -High- quality Borosilicate Glass 3.3; high thermal shock resistance and chemical durability. Capacity: 500 ml. Extractor Body- 250 ml</p>	01 (Galle)		

		nominal capacity; compatible with the 500ml flask., Condenser-Allin (Bulb) or Dimorph type; approx. 250–300mm length. Cellulose Thimbles Pack-Must fit the 250ml extractor (typically approx. 33 X 80mm or 33 X 94 mm).5 meters of high-grade, flexible Silicone or PVC tubing. Must be chemical-resistant and capable of withstanding standard laboratory tap water pressure without ballooning. Clamps, integrated manifold for distributed water flow to all three condensers. Heater (3-Place), support stands and clamps. minimum 2-year warranty.			
44	Laboratory Muffle Furnance	Temperature: Ambient to 1100 oC (operating range 550-600 oC for ash) or better. Control: Digital PID programmable controller with +/-1 oC accuracy. Chamber Volume: Minimum 7Liters.Safety: Automatic power-off when the door is opened; ceramic fiber insulation for low outer shell temperature. Bench-top type with compact dimensions, Exhaust pipe at rear wall, with vapor vent connection, Single phase, 230V / 50Hz, minimum 2-year comprehensive warranty.	01 (Galle)		

45	High Performance Fume Hood	<p>High-performance ducted laboratory fume hood, 4 ft width, complete with base cabinet, work surface, service fixtures, electrical provisions, and full exhaust ducting system suitable for chemical laboratory applications. Type: Ducted high-performance chemical fume hood Nominal width: 4 ft (1200 mm approx.) Internal construction: Chemical-resistant, corrosion-proof liner (polypropylene / epoxy-coated steel / phenolic resin or equivalent) External body: Powder-coated steel or equivalent corrosion-resistant material Sash: Vertical sliding, counterbalanced safety glass (tempered) Airflow face velocity: 0.4 – 0.6 m/s Lighting: LED or fluorescent internal lighting system, Work Surface Material: Solid epoxy resin / phenolic resin / ceramic (chemical resistant) Acid, alkali, and heat resistant, Provision for installation of service fixtures on both sides of hood wall Includes mounting points for: Gas, Water, Air lines</p>	01 (Galle)		
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		<p>Chemical-resistant valves (brass/PTFE coated or equivalent), Built-in electrical sockets (minimum 2 nos, GFCI protected or equivalent) Power rating: 220–240 V, 50/60 Hz External electrical outlets allowed on both side walls Integrated cable management system, Exhaust System (Ducting) Type: Ducted exhaust system for external ventilation Material: PVC / FRP / stainless steel or chemical-resistant ducting Duct diameter: Suitable for airflow requirement Airflow capacity: Designed to maintain stable face velocity under full sash opening Includes: Exhaust blower (remote or inline), Transition connectors, Exhaust discharge designed to prevent re-entry of fumes into laboratory environment External shut-off control accessible from front panel. Minimum 3-year warranty.</p>			
46	Rutner Sampler	<p>Ruttner Water Sampler (1 L capacity), vertical type, made of transparent acrylic tube with stainless steel/brass frame, messenger-operated closing</p>	02 (Panadura – 01, Galle – 01)		

		mechanism, complete with internal non-mercury thermometer (-10 °C to +60 °C), discharge valve, drop messenger, and suspension line. Suitable for sampling at discrete depths in freshwater and marine environments.			
47	Heating Mantel	Designed for 500ml Round Bottom Flasks., Temperature controller, temperature Up to 450 °C (approximate).220V, 50/60Hz	01 (Galle)		
48	Laboratory Water Distiller	Fully automatic, wall-mounted or benchtop water still. Minimum 4 liters per hour (L/h) of distilled water. Pyrogen-free distillate; conductivity approximately 3.0–4.0 µS/cm at 25°C. Boiler and condenser made of borosilicate glass (3.3) or high-grade stainless steel for purity and corrosion resistance. Automatic cut-off with low-water level safety switch to prevent dry running. Automatic restart when water supply is restored. Thermal overload protection against overheating.	02 (Galle – 01, Trinco – 01)		

		Power supply: 220–240 V, 50/60 Hz. minimum 2-year warranty.			
49	Top Loading Balance	Capacity 10kg, readability 0.1g, LCD display, at least 1 year warranty	01 (Galle)		
50	BOD Bottles	300 mL, borosilicate lab grade: glass-stoppered (airtight seal)	14 (Galle – 12, Panadura – 02)		
51	BOD Incubator (Refrigerated)	For Capacity: 12 BOD bottles (300 mL each), maintained 20 °C ±1°C, Digital temperature controller Forced air circulation for uniformity.	01 (Galle)		
52	Aspirator Bottle	10 L capacity, Borosilicate 3.3 Glass, Thermal Resistance: Fully autoclavable at 121°C and 15 psi., Stopcock (The Valve)-Interchangeable PTFE (Teflon) /glass. Tapered Nozzle.	01 (Galle)		
53	Aspirator Bottle	5L capacity, Borosilicate 3.3 Glass, Thermal Resistance: Fully autoclavable at 121°C and 15 psi., Stopcock (The Valve)-Interchangeable PTFE (Teflon) /glass. Tapered Nozzle.	01 (Galle)		
54	Burettes and Burette Stand with Clamp	Burettes :50 mL, Class A, Borosilicate glass 3.3, Graduation: 0.1 mL divisions, Accuracy: ±0.05 mL, Stopcock: PTFE (Teflon),	06 (Galle)		

		Scale: Permanent, clear, easy-to-read markings. Stand: Retort stand / burette stand, Base: Heavy cast iron / powder-coated metal (stable, anti-slip),Rod: Stainless steel or chrome-plated steel,Height: Minimum 60–75 cm, Clamp: double burette clamps, Material: Metal (nickel-plated / epoxy-coated) or high-strength plastic, Grip: Rubber-coated jaws to prevent glass damage Adjustable tightening mechanism,Capable of holding one or two burettes securely			
55	Muffle Furnace	Max Temp: 1200°C; Working Temp: 1100°C; Chamber Volume: 7L; Heating Element: Fe-Cr-Al alloy; Controller: PID Digital; Safety: Over-temperature protection; Power: 3.5kW.	01 (Trinco)		
56	Thermometer (Digital)	Digital probe for precise temperature monitoring in tanks and laboratory experiments.	03 (Trinco)		
57	Water Quality Portable Multi Meter	Parameters: pH, DO, Cond, TDS, Salinity, Temp; pH Range: 0-14; DO Range: 0-20 mg/L; Salinity: 0-70 ppt; Display: Backlit LCD; Protection: IP67 waterproof. (With Standards)	01 (Trinco)		

58	Centrifuge	Max Speed: 4000 rpm; Max RCF: 2325 xg; Capacity: 12 x 15ml; Timer: 0-99 mins; Safety: Lid lock, overspeed protection; Power: 220V/50Hz.	01 (Trinco)		
59	Magnetic Stirrer	Speed Range: 100-1500 rpm; Max Stirring Vol: 5L; Plate Material: Ceramic coated; Power: 220V; Heating: yes; 300 °C Speed Control: Analog dial. plate size 15cm x 15cm approximately.	01 (Trinco)		
60	Dissecting Set (Fish)	Includes scalpel, scissors, forceps, dissecting needle and tray; stainless steel.	10 (Tangalle)		
61	Dissecting Tray with Wax	Approx. 12" x 8", wax base, durable frame (plastic/aluminum).	10 (Tangalle)		
62	Thermometer	Range 0°C to 100°C, alcohol or mercury.	05 (Tangalle)		
63	Water Quality Testing Meter	Portable, digital, measures pH, DO, temperature, and TDS.	01 (Tangalle)		
64	Refractometer	Handheld, salinity measurement with temperature compensation.	02 (Tangalle)		
65	Analytical Balance	Digital, 4 decimal accuracies (0.0001g), calibration feature.	01 (Tangalle)		