SCHOOL OF ENVIRONMENTAL SCIENCES MAHATMA GANDHI UNIVERSITY P.D HILLS P.O, KOTTAYAM - 686 560 (VERC PROJECT)

QUOTATION NOTICE

No.SES/MGU/VERC/E/2016-17 Dated: 22nd May 2017

Sealed quotations in original in Indian Currency/foreign currency including all taxes are invited for the supply of following items for Vembanad Environmental Research Centre (VERC), School of Environmental Sciences, Mahatma Gandhi University, Kottayam under the Project "Environmental Monitoring and Sustainable Utilisation of Vembanad Wetland Ecosystem". The cover containing the quotations should be superscribed with **Quotation for the supply of Equipment for VERC project** and the same should be reached to the Director, School of Environmental Sciences, Mahatma Gandhi University, P.D.Hills, Kottayam – 686 560 on or before **06.06.2017 at 3 pm**.

Sl. No.	Equipment	Specification
1	Standard Water	Sampling tube- Plexiglass
	Sampler acc. to Ruttner	Metal parts: Nickel-plated brass Capacity - 2L
		Messenger for ropes up to 6mm.
		Built-in thermometer - range -2 to +30°C
		Dimension - 10 cm x 75 cm
		Sample Retrieving Method - Tap Cock
		Lids with metal
		Optional : messenger for ropes up to 6mm
2	Water sampler for Trace level contaminants	Material - Holder device: Stainless steel Headpiece:
		PTFE Hoses: Silicone Sampling bottles: 500ml Glass
		Bottle Plastic Covered Messenger
		Operational Depth - Max 100M Sterilizable /
		autoclavable sampler Required Spares like Glass
		Bottles 500 ml
		- Plastic Covered Messenger for ropes up to 6mm
		Optional : Plastic Covered Messenger for ropes up to 6mm

3	Biological bottom dredge	Rectangular stainless steel frame - Size of 50 x 20 cm Proper protection for Net bag
		Net Bag Size – minimum 50 cm long and 6mm Mesh Size
		Design Type: Foldable Weight – Not more than 10Kg
4	Centrifuge	Changeable head
		(50, 15, 2.5 ml)
5	Plankton Net for qualitative collection,	100 cm length, standard mesh size 55 microns
		Diameter of aperture: 40 cm
		Optional : Spare net bag; spare net bucket; spare
		messenger
6	Set of Macrozoobenthos	Light weight plastic material Mesh size 2000µm,
	Sieves	1000µm, 780µm, 500µm
		including drain vessel opening of the bowls diameter - approx. 38 cm
7	Mechanical Flow Meter	0.3 m per revolution of Hydraulic pitch;
	with back-run stop	Range of counter - 99999 revolutions;
		Impeller diameter > 70 mm;
		Material - Plastics, titanium;
		Calibrated
		Design - Free-flushing design
8	Counting Chamber for	Dimensions - 40 x 70 (mm), 9 ml
	zooplankton	Material - Plexiglas
		Break-resistant&Optimal transparency
9	Combined Plate Chamber	Base Plates and 1 Handling Support, complete set with
		one Cylinder 10 ml, 50 ml and 100 ml each, three Cover
		Plates, 50
		Material - Plexiglas, glass, chrome-plated brass;
		Dimensions of Plexiglas plate - 43 x 120 mm
		Diameter of Plexiglas plate alignment - 39 mm and 42
		mm
		Inner diameter of sedimentation cylinder - 26 mm;
		Height of sedimentation cylinders - approx. 15 mm for
		the 10 ml version,
		approx. 92 mm for the 50 ml version,
		approx. 185 mm for the 100 ml version
		Must be Leakage Free and corrosion resistant Optional: accessories

10	Oven	Capacity130 – 150 Litre
		• Temp range: +5°C to 250°C.
		• Control accuracy: ±0.5°C.
		Minimum 2 No. of Shelves
		Digital PID temperature controller with timer, alarms
		and auto tuning.
		Outer body made of G.I Epoxy Coated
		Inner body made of Stainless steel with clear bottom
11	Incubator	Capacity: 100 -250 L.
		Temperature: 02 - 700C ± 0.2
		Light: Flourescent with separate control unit
		Digital display
12	Sediment Trap	single bottle type, accessories as optional
		Opening area - 0.015 m ²
		Cylinder diameter & length - 140 mm & 560 mm
		Total length - 900 mm
		Diameter to length ratio - 1:4
		Cone angle - 40
		Grid dimensions - 20 x 20 x 40 mm
		Material - PVC, PE
		Weight in air/ water - 3 kg /1 kg
		Cylindrical trap design should avoid re-suspension of sample
		Easy mounting to mooring line
		Spares Required (quote as Optional) - Spare Collecting
		Bottles 250 ml with screw
		cap (1 set of 24 pcs.)
13	Visibility Disc acc. to	with 10 m tape measure
	Secchi,	Material - White lacquered brass disk
	·	Diameter - 200mm
		Rope Length – not less than 3m
		Weight – Not More than 2Kg
14	Electronic Balance	Capacity: 200g
		Readability: 0.001g
		Automaic calibration and LCD or higher display
15	Sieve set- stainless steel	stainless steel ASTM sieves with varying pore size
16	Adjustable micropipettes	100-1000μL and 20-200 μL, tips
17	Ultrasonic bath	Small capacity ultrasonic cleaner with 70W/40KHz ultrasound
		transducers, heating up to 80°C and digital controls.And
		reinforced tank that is 1 mm thick and 30 minutes timer.
18	Peristaltic pump	Peristaltic Pumps with for channels, adjustable flow rate
		ranging from 0ml/hr to 1500ml/hr with digital flow rate
		control and auto stop with audible alarm
19	Distillation unit	Distillation Unit with 5 L capacity with automatic cut off
		device, Panel mounted with quartz boiler and boro-silicate
		condenser, Vertical design, Output capacity approx. 5 L
		per hours, Pyrogen free

Terms and Conditions

- 1. Only those firms who are capable of supplying the goods and after sales service promptly need to quote.
- 2. The cost of items should include all taxes, freight charges entry tax payable etc. Brochures of quoted models may be enclosed with the quotation.
- 3. The University will not be responsible for postal delay or loss in transit.
- 4. The undersigned reserves every right to reject or accept any or all quotations without assigning any reason, thereof.
- 5. The quotation should reach the office of School of Environmental Sciences with all details before **3 pm on 6.6.2017** and will be opened at **3.30 p.m. on 08.06.2017**.
- 6. The quotation may be sent to the **Director**, **School of Environmental** Sciences, Mahatma Gandhi University, Priyadarshini Hills P.O., Kottayam 686 560
- 7. The quotations without observing the above specifications, terms and conditions will be rejected.

Sd/-

Director