

**SCHOOL OF ENVIRONMENTAL SCIENCES  
MAHATMA GANDHI UNIVERSITY  
KOTTAYAM-686560**

**TENDER NOTICE FOR PURCHASE OF EQUIPMENT**

**TENDER NOTICE No: SES/MGU/VERC/E-T/2017    Date: 22.05.2017**

Competitive tender in sealed cover for supply of **Equipment listed** is invited from reputed firms and authorized dealers so as to reach the office of the under signed not later than **3 p.m. on 12.06.2017**. Financial bid of the tenders will be opened on **12.06.2017** at **3.00 p.m.** in the presence of authorized representatives of tendered firms. The financial bid of the Tender will be opened on **13.06.2017** at 3pm

Sl. No.	Scheduled Item	Specifications	E.M.D Rs	Tender Fees
01	Hand held GPS (mobile mapper)	Annexure IV for detailed Specification	2.5 % of the Estimated Value	1000+ 14.5 % of the VAT
02	Sediment Sampler acc. to van Veen,			
03	Sediment Sampler acc. to Ekman-Birge			
04	Industrial water sampler acc. To Ruttner			
05	Plankton Net acc. to Apstein			
06	Nets for microplastic sampling			
07	Sample storage facilities-freezer			
08	Pore water squeezer			
09	Portable Weather station			
10	Filtration units with stainless steel manifold and suitable vacuum pump			
11	Dissolved CO <sub>2</sub> sensor /probe			

**Director**

School of Environmental Sciences, M.G.U

**NOTE: (1) PLEASE SEE THE ANNEXURES I, ANNEXURE II, ANNEXURE III and ANNEXURE IV ATTACHED BELOW**

**(2) ALL THE DOCUMENTS RELATED TO THE TENDER CAN BE DOWNLOADED FROM THE UNIVERSITY WEBSITE- [www.mgu.ac.in](http://www.mgu.ac.in), in the section “Quotation/tender”**

## ANNEXURE I

### General Terms and Conditions

1. The main envelop should be super scribed: **“Tender for Equipment procurement under VERC Project”**
2. The nonrefundable application fee of ₹1,000/- with the challan of VAT must be accompanied with tender for each item. The application fee must be as **D.D.drawn in favour of Finance officer, M.G.University.**
3. Tenders must accompany a copy of the “General Terms and Conditions, Annexure I and Annexure II and III” section of this document, signed and stamped on each page indicating that they agree to these.
4. Last date of submission of tender along with requisite fee, EMD and all documents is **12.06.2017**. The DD for EMD or any other accepted document must be drawn in of favor of **Director, School of Environmental Sciences, M. G. University, Kottayam, Kerala payable at SBT Mahatma Gandhi University Campus Branch.**
5. All other charges including VAT/CST, Excise Duty and other levies payable by C.I.P should be clearly indicated otherwise it will be presumed that the rates quoted are inclusive of all these charges and will not be paid.
6. The Excise Duty component (with percentage) should be indicated, as the University is exempted from the payment of Custom/Excise Duty. Exemption will be availed by providing Custom/Excise Duty Exemption Certificate with order.
7. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The charges for extended warranty and/or Annual Maintenance Contract after the expiry of offered warranty period should also be specified in the financial bid.
8. The manufacturers’ printed literature/catalogue/drawing/user’s list in respect of range of product being quoted should also be submitted with the offer.
9. Our Institute is registered with the Department of Scientific & Industrial Research (DSIR), so Excise duty exemption will be provided.

### Other requirements for delivery and complete installation

1. Delivery at School of Environmental Sciences, Mahatma Gandhi University, Kottayam
2. All other requirements for satisfactory installation of **equipment**.
3. It will be the responsibility of the supplier to deliver the ordered materials at School of Environmental Sciences, Mahatma Gandhi University, Kottayam.
4. All required materials for satisfactory installation are to be provided by the supplier at their own cost.

**ANNEXURE II:  
TENDER FORM PART-I (TECHNICAL BID)**

PART-I (TECHNICAL BID) OF TENDER NO:

Last date for receipt:

Due date for opening Part –I (TECHNICAL BID):

Tenderer's Offer No:

Date:

From,

M/s. ....

.....

To,

Director,

School of Environmental Sciences, M. G. University,

Kottayam, Kerala,India

Dear Sir,

I/We have gone through the tendering conditions pertaining to the Tender and General Terms and Conditions of Contract and other requirement for delivery and complete Installation and Special Conditions of Contract contained herein with this tender document.

I/we hereby agree to supply the stores conforming to the tender specifications incorporated in ANNEXURE I of the tender document and also agree to abide by your General Conditions of all Contracts and Special Conditions of Contract contained in the ANNEXURE I of the Tender document.

You will be at liberty to accept any or more of the items of stores offered by us and I/we shall be bound to supply you the stores as may be specified in the Purchase Order/Contract.

I/We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of opening of Part-II (Financial bid) of the tender

I/We are also enclosing herewith all the leaflets catalogue etc. pertaining to the stores offered.

Yours faithfully

Stamp and Signature of the Tenderer

**ANNEXURE III: TENDER FORM PART-II (FINANCIAL BID)**

PART-II (FINANCIAL BID) OF TENDER NO:

Last date for receipt:

Due date for opening Part –II (FINANCIAL BID):

Tenderer's Offer No:

Date:

From,

M/s. ....

.....

.....

To,

Director,

School of Environmental Sciences, M. G. University,

Kottayam, Kerala,India

Dear Sir,

In response to your invitation and as per your tendering and contracting conditions, the prices applicable for the scope of supply contained in ANNEXURE-I (TECHNICAL BID) of our tender are indicated in the format at annexure "A" to this tender.

We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of actual opening of Part-II (FINANCIAL BID) of the tender.

Yours faithfully,

Stamp and Signature of the Tenderer

## ANNEXURE – IV

### SPECIFICATIONS

Sl. No.	Equipment	Specification
1	Hand held GPS (mobile mapper)	Receiver : GPS & GLONASS L1 C/A; Integrated SBAS - (WAAS/EGNOS/MSAS/ GAGAN) Channels: 72 Channels Processor Speed: 1.2 Ghz Operating Temperature: -20°C to 60°C Horizontal Accuracy –Minimum 1m or higher (sub meter) ; Internal Lithium-ion, Re-chargeable and removable battery with back-up >12 hrs; Water proof; USB port(s), Separate port for external antenna, Bluetooth Facility; 2GB SDRAM, 8GB internal Memory; Display: Gorilla Glass damage resistant 5.3” or more; Operating System: Android Camera: 8Mega Pixel; Mobile Mapping Software and office software; Accessories –rechargeable battery, Carrying Case, Data cables
2	Sediment Sampler acc. to van Veen,	stainless steel, small model with a surface area of 250 cm <sup>2</sup> , weight approx. 5 kg, capacity around 1.5 to 1.7 litres, Dimensions 20 x 30 x 60 (cm), 5mm wall thickness of clamshell, 6mm wall thickness of top plates metallic surface for high corrosion resistance
3	Sediment Sampler acc. to Ekman-Birge,	Material should be high grade stainless steel model box size 15 x 15 x 20 cm, grasping area 225 cm <sup>2</sup> , weight approx. 3 kg, incl. Messenger Spares (optional) -Spare Messenger for ropes up to 6 mm.
4	Industrial water sampler acc. To Ruttner	Thick walled Sampling tube and all parts contacting the sample should be Plexiglass Metal parts: nickel-plated brass, stainless steel Capacity - 1L Dimension - 10 cm x 56 cm Weight – 4.5Kg Sampling Tube Type - Metal Free Messenger for ropes up to 6mm.
5	Plankton Net acc. to Apstein ,	Plankton Net for quantitative collection with cowl and closing mechanism, operated by messenger, 100 cm length, 40cm diameter of aperture, standard mesh size 55 microns, Height of Cowl 20Cm, Unscrewable net bucket

		<p>with side windows and stop-cock; Weighted net bucket for faster lowering of the net and it can be removed during horizontal applications;</p> <p>Optional : Spare net bag; spare net bucket; spare messenger</p> <p>Also quote lower models</p>
6	Nets for microplastic sampling	<p>Net Bag - 70 x 40 x 260 cm (w x h x l)</p> <p>Material -Microplastics Net: Stainless steel;</p> <p>Dimensions - Microplastics Net frame: 115 x 45 x 20 cm</p> <p>Weight – Approx. 12Kg</p>
7	Sample storage facilities-freezer	<ol style="list-style-type: none"> <li>1) Temperature 0°C to -20°C ; capacity 5-7 Cubic feet / 150 Liters ; Orientation – Upright ; Digital display Corrosion resistant body with lock facility</li> <li>2) Temperature 0°C to -80°C ; capacity 5-7 Cubic feet / 150 Liters ; Orientation – Upright ; Digital display , Corrosion resistant body with lock facility</li> </ol>
8	Pore water squeezer	<p>Titanium Pore Water Squeeze Cell:</p> <ul style="list-style-type: none"> <li>· Internal diameter 90mm, height of cylinder 110mm</li> <li>· Nominal volume 83 cu cms</li> <li>· Complete assembly with mesh, neoprene rubber disks, viton O rings, PTFE gaskets.</li> </ul> <p>Quote optional items also.</p>
9	Portable Weather station	<p>Portable weather station with wind speed, Wind direction, Temperature, Humidity In/Out, Barometric pressure, Rainfall and all mounting accessories like tripod (stainless steel or corrosion free), Data logger, pc interface port – Wireless / Wired Model, Software for Weather station.</p> <p>Optional items : Accessories</p>
10	Filtration units with stainless steel manifold and suitable vacuum pump	<p>Facility for 3-5 filtration at a time,</p> <p>Oil free Vacuum pressure pump with low noise</p>
11	Dissolved CO <sub>2</sub> sensor /probe	Sensitivity : 0.5 to 1000 ppm