



**University of Calcutta**  
**Dept. of Applied Physics**  
**92 APC Road, Kolkata 700009**

**Tender Notice**

Enq No.: AP/ENQ/UGC-SAP-DRS-II/RG/ENQ/18-19/10;

Date: March 14, 2019

To

**The All Interested Parties**

Dear M/s.

Please submit sealed quotation within **March 22, 2019 (4 PM)** at the Office of the Department of Applied Physics for the following items.

Please enclose the copy of the following papers along with the quotation.

1. Trade License, 2. PAN Card, 3. VAT & Service Tax Registration wherever necessary

- (A) Biomedical sensors hardware compatible with BIOPAC MP36 Module (Four Channel Data Acquisition Unit), BIOPAC<sup>®</sup> MP45 Module (Two Channel Data Acquisition Unit) and software compatible with BIOPAC<sup>®</sup> BSL 4.1v software for acquisition and analysis purpose: 01 unit each

**Specifications:**

1. Transducer/Sensor for the measurement of Multi-lead Electrocardiogram including the signal of non-invasive cardiac output in bio-impedance method should simultaneously able to record ECG Leads I, II, III, aVR, aVL, aVF plus one alternating precordial chest lead V(1-6) and should also stroke volume, cardiac output by using electrical bio-impedance techniques with operating frequency of 100 KHz.
2. Output of Impedance should be 0-100 ohms and  $dZ/dt$  should be  $\pm 20$  ohms/sec.
3. Microphone band width of the heart sound transducer should be from 35Hz to 3500 Hz.
4. Infrared type Pulse Photoplethysmogram transducer/sensor.

Dr. Rajarshi Gupta  
**Deputy Coordinator,**

For  
UGC SAP DRS-II Program  
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