



**Center for Bioequivalence Studies and
Bioassay Research (CBSBR)**

**DR. PANJWANI CENTER FOR MOLECULAR
MEDICINE AND DRUG RESEARCH**

INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES
UNIVERSITY OF KARACHI, KARACHI-75270

TENDER NOTICE NO. PCMD-BIOEQUIV-17. 2011/12

Tender:

- 1) ECG Machine with Trolley

Sealed tenders are invited only from the sales tax registered with Sindh Revenue Board and income tax registered suppliers for the Purchase/Import on C & F basis of Scientific Equipments required for the project entitled, "**Center for Bioequivalence Studies and Bioassay Research at Dr. Panjwani Center for Molecular Medicine and Drug Research**".

The detail and specifications of the item can be collected from the date of notification of the advertisement on the websites, from Purchase Office of PCMD, on any working day between 9.00 a.m. to 12.30 p.m., (except Friday), on payment of Rs. 300/- (non-refundable), in shape of a pay order (Demand Draft by the out of Karachi bidders), in favor of the Director ICCBS., or downloaded from the websites www.iccs.edu and www.pprasindh.gov.pk The last date of issuing tender is 19-06-2012. The tenders may be submitted with 2% of the bid value as bid security, in shape of a pay order in favor of the Director ICCBS., latest by 02.30 p.m. on 21-06-2012. The tenders will be opened in Purchase Office PCMD of the Center at 03.00 p.m. on the same day in presence of the bidders or their representatives. The Procuring Agency may reject all or any bid subject to the relevant provision of SPP rules.

**CO-DIRECTOR
PCMD**

1) ECG Machine with trolley

Specification: (or Equivalent)

Features:

- Alphanumeric keyboard 6/12 channel representation of all 12 simultaneously acquired leads.
- Large, high resolution backlit monitor for easy preview of ECG quality.
- Automatic and manual mode.
- Full size 8 ½" x 11" reports (A4).
- Integrated rechargeable battery lasts up to 3 hours or normal use.
- Single button operation program including accurate measurements (optional).
- RS-232 interface for data transmission to PC SEMA-200.
- Portable

Specifications:

- Dimensions: 2.7" H x 11.4" D x 8.3" W (6.9 x 29 x 21 cm)
- Power supply requirements: 220-240 V, 50/60 Hz or 110-115 V, 50/60 Hz independent
- Power consumption: Max. 28 VA
- Battery charging time: 15 hours. From a completely discharged battery, 3 hours. To 60% capacity
- Battery capacity: 2 hours of normal use
- Leads: Standard/ Cabrera
- Patient input circuitry: fully floating and isolated, defibrillation protected (only with original Schiller cable).
- Frequency range of digital recorder: 0 Hz to > 150 Hz (IEC/AHA)
- ECG amplifier:
 - Simultaneous, synchronous registration of all 9 active electrode signals (= 12 standard leads)
 - Sampling frequency: 1000 Hz
 - Pacemaker detection: 8805 +/- 2mV / 8805 +/- 0.1 ms
 - Myogram (muscle tremor) filter: 25 Hz (40 db/dec) or 35 Hz (20 db/dec), programmable of an adaptive digital filter.

Note:

- a) IQ/OQ/PQ to be conducted by the vendors engineers at site with complete documentation.

SUMMARY SHEET

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The tender will liable to be rejected if this form will not accompany the tender bid / quote

SERIAL No.	BID VALUE	FOREIGN CURRENCY	CONVERSION RATE.	PRICE IN PKR.

TOTAL BID VALUE IN PKR		
Earnest Money @ 2% in PKR		
Payorder / Bank Draft No:		Date:
Signature	Seal:	