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

RE-TENDER NOTICE NO. PCMD-BIOEQUIV-17. 2011/12 (2nd Time)

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 23-07-2012. 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 24-07-2012. 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

Quantity: 01set

1) ECG Machine with trolley

Specification:

Input impedance	>10 ohm		
Input dynamic range	+/- 2mV		
Bandwidth	0.15 - 4.Hz		
CMRR (Common	>95 db		
Mode Rejection Ratio)			
A/D conversion	12 bits		
Sampling frequency	-250 sample/s		
Measurement time	~30 second		
Display	240 x 128 LCD display panel		
Input	Dry conduction electrodes and/ or external auxiliary electrodes		
Output	USB interface		
Size:	124*78*22mm		
Measurement Range:			
Average heart rate	45 to 180 bpm		
St value	3 to + 3 mm		
QRS interval	< 0.2 sec		

Parameters	Reference Range
Average Heart Rate	60 < HR < 100 bpm
ST Segment (ST)*	-2 < ST < +2 mm
QRS Interval (QRS)*	$0.08 \sec < QRS < 0.12 \sec$
PR Interval	$0.12 \sim 0.20 \text{ sec}$
QT/QTc	$0.32 \sim 0.44 \sec/0.41 \sim 0.44 \sec$

Note:

- a) IQ/OQ/PQ to be conducted by the vendors engineers at site with complete documentation.
- b) Alternate machines matching the above specification are acceptable.

SUMMARY SHEET

TENDER NOTICE NO. PCMD-BIOEQUIV-17. 2011/12(2nd Time) 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 VALU	JE IN PKR			
	Earnest Money @	2% in PKR			
Payorder / Bank Draft No:			Date:		
Signature		Seal:			