



**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-10. 2011/12**

**Tender: 3<sup>rd</sup> Time**

- 1) Autosampler
- 2) Mixing Chamber
- 3) Software

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](http://www.iccs.edu) and [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk) The last date of issuing tender is 16-6-2012. 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 18-06-2012. 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**

## 01. Autosampler for KNAUER HPLC

Quantity: 01set

### Specification:

- Sample capacity standard tray: for 84 vials x 1.5 ml + 3 vials x 10 ml;
  - Optional trays: for 96 vials x 1.5 ml or 24 vials x 10 ml
  - Cool option 4 – 15 °C ± 2 °C; minimum is 20 °C below ambient temperature
  - Injection volume 1– 5 000 µl (preparative option: 10 000 µl when software-controlled)
  - Sample loop 100 µl standard; 10 ml for preparative option
  - Dispenser syringe 250 µl standard; 1 000 µl optional; 2 500 µl for preparative option
  - Vial detection missing vial detection by sensor
  - Headspace pressure built-in compressor
  - Switching time inj. valve < 100 ms
  - Piercing precision needle ± 0.6 mm
  - Injection volume full loop injection: max. 5 000 µl
  - Partial loop fill injection: up to ½ loop volume (1 µl increment)
  - Pickup injection: up to ½ loop volume – 1.5 x needle volume
  - Injections per vial max. 9 injections
  - Analysis time max. 9 h, 59 min, 59 s
  - Reproducibility full loop injections: δ 0.3 % RSD
  - Partial loop fill: δ 0.5 % (prep. δ 1.0 %) RSD, injection volume > 10 µl
  - Pickup: δ 1.0 % RSD, injection volume > 10 µl
  - Sample carryover < 0.05 % (prep. < 0.1 %) with programmable needle wash
  - Outputs 2 inject marker (relay, TTL), 2 auxiliary (relay), alarm (relay)
  - Inputs next injection, freeze, stop (all TTL)
  - Control RS-232, standalone
- With 150pcs Eppendorf micro centrifuge tube and its supporting sleeves.

## 02. Mixing Chamber for KNAUER HPLC

Quantity: 01set

### Specification:

- Mixer upto 80MPa
- Flow rate: LPG: 0.1–0.5 ml/min, HPG < 1.5 ml/min
- Mixing volume: 150 µl
- Pressure rating: max. 1000 bar (100 MPa)
- Wetted materials: stainless steel, PEEK and Teflon

## 03. Software

Quantity: 01set

- Software for controlling the KNAUER HPLC Part No. A1681-5 or Equivalent.

### **Note:**

- The all items should be compatible with KNAUER HPLC System (Part No. Pump: S1000, UV- Detector: S2500 and Manager: S5000 and Clarity Lite: 2.4.4).
- The supplier shall provide an undertaking for compatibility.
- IQ/OQ/PQ to be conducted by the vendors engineers at site.

## SUMMARY SHEET

TENDER NOTICE NO. PCMD-BIOEQUIV-10. 2011/12 (3<sup>rd</sup> Time)

The tender will liable to be rejected if this form will not accompan<sup>y</sup> the tender bid / quote

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

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