

**H.E.J. RESEARCH INSTITUTE OF CHEMISTRY  
INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES  
UNIVERSITY OF KARACHI  
KARACHI-75270**

**TENDER NOTICE NO. HEJ-290113**

Sealed tenders are invited from the sales tax registered firms with Sindh Board of Revenue and Income Tax Department for purchase on F.O.R. basis or import on item-wise C&F basis of the scientific equipments for the Center. The detail and specifications of the items can be collected from the date of publication of the advertisement in the newspapers, from Purchase Office of the Center, on any working day between 9.00 a.m. to 12.30 p.m., on payment of Rs. 300/- (non-refundable), in shape of a pay order (Demand Draft by the out of Karachi suppliers), in favor of the Director, H.E.J., 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 of the bid documents is 25-01-2013. The tenders can be submitted in Purchase Office of the Center with 2% of the bid value as bid security, in shape of a pay order in favor of the Director, H.E.J., latest by 2.30 p.m. on 29-01-2013. The tenders will be opened in meeting room of the Center at 3.00 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.

**DIRECTOR**

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**Prof. Dr. M. Iqbal Choudhary**  
*H.E.J. Research Institute of Chemistry  
University of Karachi*

**Contact Person**

**Dr. Atia-tul-Wahab**  
*Dr. Panjwani Center for Molecular Medicine and Drug Research  
International Center for Chemical and Biological Sciences  
University of Karachi, Karachi-75270*

**LIST OF EQUIPMENTS**

1. **Stackable Incubator Shaker**  
Quantity: 1  
**Specifications:**  
Shaking: 25 to 400 rpm  
Temperature: 5 °C above ambient to 60 °C  
Temperature control: PI microprocessor feedback regulation 0.1± 0.5 °C  
Heaters: Low-watt density, resistance-type heaters with high-temperature safety thermostat cut off  
Door: Large viewing window  
Size: 34" Wide x 25" Deep x 14" High above platform  
Platform: 250 mL Erlenmeyer, 30" x 18" (76.2 x 45.72 cm).  
Alarm: Audible and visible signals indicate when speed deviates more than 5 rpm, temperature more than 1°C from setpoint, and when timer operation has expired  
Drive and drive motor: Triple-eccentric counterbalanced drive in cast-iron housing with solid-state brushless D.C. motor  
Medium base  
Cat # New Brunswick I26 or equivalent
  
2. **Centrifuge with Rotor.**  
Quantity: 1  
**Specification:**  
Max.capacity: 4 × 750 mL/ 4 × 4 MTP  
Max. Rcf: 20,913 × g  
Max. Speed: 14,000

Dimension: Bench Top.

Centrifuge 5810, with Rotor A-4-62 incl.adapters for 15 mL/ 50 mL conical tubes: 36 × 15 mL/16× 50mL (max.capacity of conical tubes per rotor),  
Cat # Centrifuge Eppendroff 5810 or equivalent

3. **Inverted Fluorescence Microscope:**

**Specifications:**

**1: Objectives:** 10X to 100X/ oil and dry

**2: Fluorescence range / filters**

DAPI, T-RED, FITC or a system should cover the range 340- 640 nm

**3: Camera**

Equipped with digital CCD camera more than equal to 5 mega pixel with an operating system/ software

**4: Illumination Modes**

Bright field, dark field and fluorescence

Training is required

4. **Separatory Funnel Shaker44**

Quantity: 1

Specifications

Round, double tube, Squibb type separating funnel should be attached

Size of separating funnel: 3 to 5 liter

Shaking speed: 50 to 300 rpm

5. **pH meter**

Quantity required : 4

Specification:

Temperature sensor: integrated

Electrode material: Glass

Electrolyte filling solution: KCl 3 mol/ l fluid

Measuring range: -5 to +105 C

Cat # Sartorius PB-11-P11 or equivalent

6. **Single channel adjustable pipette**

S.No.	Range:	Volume increment		Quantity required
1	0.1-2.5 µL	0.002 µL	Eppendroff 4910000.085 or equivalent	02
2	0.5-10 µL	0.01 µL	Eppendroff 4910000.018 or equivalent	02
3	2-20 µL	0.02 µL	Eppendroff 4910000.034 or	02



			equivalent	
4	10-100 $\mu\text{L}$	0.1 $\mu\text{L}$	Eppendroff 4910000.042 or equivalent	02
5	50-200 $\mu\text{L}$	0.2 $\mu\text{L}$	Eppendroff 4910000.093 or equivalent	02
6	100-1000 $\mu\text{L}$	1 $\mu\text{L}$	Eppendroff 4910000.069 or equivalent	02

7. Multi channel (8 channel) electronic pipette with charging adapter  
 Range; 20-300  $\mu\text{L}$   
 Volume increment: 0.5  $\mu\text{L}$   
 Quantity required 02  
 Cat # Eppendroff 4860000.550 or equivalent
8. Multi channel (8 Channel) pipette  
 Range; 30-300  $\mu\text{L}$   
 Volume increment: 0.2  $\mu\text{L}$   
 Quantity required 02  
 Cat # Eppendroff 3114000.158 or equivalent

# SUMMARY SHEET

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>	