

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

**Tender Notice# SP-2/16/10-08-011 (3rd Time)**

Sealed Tenders are invited only from the Sales Tax and Income Tax Registered reputed suppliers for Purchase/ Import of the following Scientific Equipments for the project Entitled "Strengthening of H.E.J. Research Institute of Chemistry Phase-II".

S.No.	Name of Item	Qty.	Description/ Specification
1	<b>DIAZOMETHAN GENERATOR ASSEMBLY</b>	1	<b>Glassware Set, Complete</b> Addition funnel, 150 ml, with PTFE valve Distillation head, 250 ml Round Bottom Flask and PTFE adapters with tubing.
2	<b>MELTING POINT EQUIPMENT WITH SAMPLE LOADER</b>	2	Temperature range from room temperature upto 400 °C <ul style="list-style-type: none"> <li>• Temperature resolution 0.1 °C</li> <li>• Repeatability melting point at 0.5 °C/min : +/- 0.1 °C</li> <li>• Heat-up time (50 °C – 350 °C) at 25 °C : ~ 4 min</li> </ul>
3	<b>HYDROGENATION APPARATUS (SHAKER TYPE)</b>	1	Shaker type hydrogenator.(Pressure :up to 5 atmosphere and temperature:80 °C)
4	<b>OZONE GENERATOR SYSTEM COMPRESSED AIR OR OXYGEN FEED GAS</b>	1	<b>Ozone Module</b> <ul style="list-style-type: none"> <li>• Made of stainless steel.</li> </ul> <b>High-Tension Transformer</b> <ul style="list-style-type: none"> <li>• Resin-embedded high-tension transformer(s) protected against condensate water.</li> </ul> <b>Air Drying Unit</b> <ul style="list-style-type: none"> <li>• Integrated in ozone generator unit</li> <li>• Dew point – 70°C</li> </ul> <b>Automatic Ozone Production Control</b> <ul style="list-style-type: none"> <li>• Serial equipped with automatic ozone production control.</li> <li>• PI-Controller included.</li> <li>• Capacity:10g</li> </ul>
5	<b>DRY ICE MAKER</b>	1	Capable of producing high density dry-ice pellets in any size from 1.7mm to 16mm, Requires only a source of liquid CO <sub>2</sub> . Production rate:80 Kg/hr.

The detailed specifications and the list of items can be downloaded from our website ([www.iccs.edu](http://www.iccs.edu)), SPPRA website ([www.ppra.org.pk](http://www.ppra.org.pk)) and ([www.pprasindh.gov.pk](http://www.pprasindh.gov.pk)). Tender Document with detailed description / specifications can be obtained from the date of publication in news papers from Project office during office hours on payment of Rs. 1000/- (non-refundable) in shape of Pay order/ Bank draft in favor of the "Director, H.E.J. Research Institute of Chemistry". Tender may be submitted along with 2% of the Bid Value as an earnest

money in shape of Pay order in favor of the “Director, H.E.J. Research Institute of Chemistry” in the Project office latest by 11:00 a.m. on **August 10<sup>th</sup>, 2011** and will be opened at 11:30 a.m. on the same day at the meeting room of the H.E.J.R.I.C in presence of the bidders or their representatives. All bidders are requested to submit their proposal in Two Envelops marked as “Financial Proposal” and “Technical Proposal” in the light of Two Stage-Two Envelop Bidding Procedure. In first stage Technical Proposal will be discussed with bidders and in second stage revised Technical Proposal along with original and supplementary Financial Proposal will be opened. The Procuring agency may reject all or any bid subject to the relevant provisions of SPPRA rules. For any assistance or query please contact at Project Office (Phone # 99261680, 111-222-292 Ext 341 & 342).

**Director**

**H.E.J. Research Institute of Chemistry  
International Center for Chemical and Biological Sciences  
University of Karachi,  
Karachi - 75270,  
Pakistan.**

Project Title:

**STRENGTHENING OF H.E.J. RESEARCH INSTITUTE OF  
CHEMISTRY (PHASE II)**

**Tender Notice No SP-2/16/10-08-011(Third Time)**

**Tender# Tender Notice No SP-2/16/10-08-011(Third Time)**

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

ITEM #	BID VALUE	FOREIGN CURRENCY	CONVERSION RATE	PRICE IN PKR	ITEM #	BID VALUE	FOREIGN CURRENCY	CONVERSION RATE	PRICE IN PKR
1					2				
3					4				
5									

Bidders Identification (Name of Bidder)		Total Bid Value in PKR	
		Earnest Money @ 2% of Total Bid Value in PKR	
Signature		Amount of Pay order/ Bank Draft	
		Pay Order or Bank Draft#/ Date	
Seal		Name/ Branch of Bank	
		Date of Bid Submission	

*\* All freight and other charges must be included in Bid Value*

# Terms and Conditions

1. While quoting, kindly relate to the items by clearly indicating / mentioning the **Tender document number, serial number and page number** of the quoted item(s).
2. The tender / bid envelop must have the following information on it:
  - a) Tender / Bid Number.
  - b) Items Tendered (Serial Number / Reference #).
  - c) Bidders name and telephonic contact
  - d) Summary of bid value should be given as mentioned below:
    - i) Total bid value on C & F (in any foreign currency) @ Rs. \_\_\_\_\_ (U.S. \$, €, £, ¥ etc)
    - ii) Amount of Pak Rupees of bid value \_\_\_\_\_
    - iii) Earnest money @ Rs. 2% of the bid amount \_\_\_\_\_
    - iv) Pay order No (enclosed with bid) \_\_\_\_\_
  - e) Tender / bid for equipment should be submitted two envelop procedure (1 envelop for technical information and other for financial information).
3. Tender documents can be obtained on payment of **Rs. 1000** in the form of pay order / bank draft. Please write on the back of the payorder the tender number and bidder's name.
4. **Alternate / optional price shall not be considered without its earnest money / bid security.**
5. Earnest money only will be accepted in the form of pay order / bank draft. Please write on back of payorder the name of company bidding and tender number.

6. The Bidder(s) are required to submit invariably summary of the total cost in case of unit price of detailed items, given in the tender. In case of default, the offer(s) shall not be entertained and liable to be rejected without any further reference in the matter.
7. Letter of Credit will be allowed to be amended only once in special circumstances after the approval of the Director International Center for Chemical and Biological Sciences.
8. The bid price will be inclusive of all government taxes where applicable with the validity period of their offer at least from 90 days.
9. In case of delayed shipment or non-supply of the items through Letter of Credit, a penalty, equivalent to the earnest money of the item ordered will be charged from the local agent.
10. Performance bond in shape of bank draft, bank Guarantee @ 2% of the order value should be submitted. The money will not be released till the commissioning, installation, and training of staff concern and issuance of certificate of acceptance of the equipments.
11. All clearing and bank charges will be borne by the Center.
12. The acceptance of the order will need to be confirmed on a form **within six working days** from the date of issue of the purchase order.
13. The bid value of the stores / item shall be on **C & F basis** for the “International Center for Chemical and Biological Sciences (ICCBS)”, as per purchase order and no other goods will be imported in the same consignment.
14. The invoice should mention the words “Scientific Equipments / Apparatus / Glass wares / Chemicals / Consumables” (name of the equipment, chemicals, **trade name, country of origin, model, Cat No. and complete description of the goods**).**Along with Certificate of Origin of Goods quoted in the Bid.**

15. One set of the shipping documents should be sent immediately to the consignee (ICCBS), so the necessary documentation for its clearance from the Pakistan Customs can be promptly arranged.
16. An agreement will be signed between the Institute and the local agent of ordered goods, wherever applicable.
17. All local bidders (manufacturers and suppliers) should submit their offers with 2.0% earnest money of the total offer in the form of bank draft / pay order in favor of Director, International Center for Chemical and Biological Sciences.
18. The supply / shipments should be made as per your offer strictly, if delayed the shipment, penalty will be imposed as per rules @ Rs. 0.50% per day. Delay in shipment without proper justification will not be accepted.
19. The contractors / suppliers which refuse to pay penalty / liquidated damages shall be removed from the list of approved suppliers / contractors.
20. In all cases where technical points are involved on which the advice of technical committee is required, the tenders will be referred to that committee before an order is actually placed.
21. The Bid should be submitted in order as prescribed by the project office of HEJ Phase-II / Purchase office (ICCBS) and any deviation could result in rejection of the offer.
22. All the supplier should mention the duration of delivery from the date of purchase order.
23. Validity period of proforma invoice should be 90 days.

## **SUBMISSION OF BID**

The bid should be submitted in the following sequence:

1. Covering letter
2. Price Summary
3. Earnest Money / Bid Security
4. Performa Invoice
5. Company Profile

A sample bid document can be obtained from the project office.

Further information can be obtained by contacting the Purchase Office on: 111 222 292 - Ext 341 & 342



S.No.	Items	Description/ Specification	Quantity
1	<b>DIAZOMETHAN GENERATOR ASSEMBLY</b>	<p><b>Glassware Set, Complete</b>            Addition funnel, 150 ml, with PTFE valve            Distillation head            PTFE inlet adapter, for 8 mm tubing            PTFE inlet adapter, for 13 mm tubing            PTFE vacuum adapter, for 10 mm tubing            Round bottom flask, 250 ml            Solid-top cap, with PTFE liner, 25 mm            Solid-top cap, with PTFE liner, 32 mm            Quick-disconnect fittings, w/ 1/4in. hose fitting            O-ring, Viton, size 2-011 for use with quick-disconnect fittings, Ether trap</p>	1
2	<b>MELTING POINT EQUIPMENT WITH SAMPLE LOADER FOR EFFECTIVE PACKING OF SAMPLES INTO MELTING POINT CAPILLARIES</b>	<p>Temperature range from room temperature upto 400 °C            Large illuminated magnification lens            Heating block protective coating allows for easy cleaning and extended lifetime.</p> <ul style="list-style-type: none"> <li>• Sample loader for homogenous sample loading.</li> <li>• Position for melting capillaries = 3</li> <li>• Magnification of lens – 2.5 X</li> <li>• Magnification of display – 6X</li> <li>• Temperature resolution 0.1 °C</li> <li>• Repeatability melting point at 0.5 °C/min : +/- 0.1 °C               <ul style="list-style-type: none"> <li>• Accuracy boiling point at 1.0 °C/min upto 400 °C : +/- 0.5 °C</li> </ul> </li> <li>• Temperature gradients, °C/min : 0.1, 0.2, 0.5, 1, 2, 3, 5, 10, 20</li> <li>• Heat-up time (50 °C – 350 °C) at 25 °C : ~ 4 min</li> </ul>	2

3	<b>HYDROGENATION APPARATUS SHAKER TYPE</b>	Shaker type hydrogenator provides compact and easily operated systems for treating chemicals with hydrogen in the presence of a catalyst at pressures up to 5 atmospheres (60 psig) and temperatures to 80 °C.	1
4	<b>OZONE GENERATOR SYSTEM COMPRESSED AIR OR OXYGEN FEED GAS</b>	<p><b>TECHNICAL FEATURES</b></p> <p><b>Ozone Module</b></p> <ul style="list-style-type: none"> <li>• Capacity:10 g</li> <li>• Made of stainless steel</li> <li>• Cooling water side pressure-proof up to 10 bar</li> <li>• gas side pressure proof up to 3 bar</li> <li>• Thermal isolated cooling water jacket against formation of condensate water</li> <li>•</li> </ul> <p><b>High-Tension Transformer</b></p> <ul style="list-style-type: none"> <li>• Resin-embedded high-tension transformer(s) protected against condensate water.</li> <li>•</li> </ul> <p><b>Air Drying Unit</b></p> <ul style="list-style-type: none"> <li>• Integrated in ozone generator unit</li> <li>• Dew point – 70°C</li> </ul> <p><b>Automatic Ozone Production Control</b></p> <ul style="list-style-type: none"> <li>• Serial equipped with automatic ozone production control Serial frequency converter from a leading European manufacturer</li> <li>• PI-controller included</li> <li>• No moving parts</li> <li>•</li> </ul> <p><b>Electrical Control</b></p> <ul style="list-style-type: none"> <li>• Siemens PLC</li> <li>• Text display for indication of operating status</li> </ul>	1

5	<b>DRY ICE MAKER</b>	<p>Capable of producing high density dry-ice pellets in any size from 1.7mm to 16mm, i.e. micropellets, cleaning pellets and cooling nuggets can be manufactured. Requires only a source of liquid CO<sub>2</sub>.</p> <p><b><u>Technical Specification :</u></b></p> <p>Production rate: 80 kg/hr. Power consumption: 3 KW</p> <p>Source: Liquid CO<sub>2</sub></p> <p>Voltage: 3x220V AC-60 Hz</p>	1
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