

**THIRD WORLD CENTER FOR CHEMICAL SCIENCES
INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES
UNIVERSITY OF KARACHI
KARACHI-75270**

RE-TENDER NOTICE NO. TWC-171213 (3RD TIME)

Sealed tenders are invited from the sales tax registered firms with Sindh Board of Revenue and Income Tax Department for import of Gel Permission Chromatography (G.P.C.) System on C&F basis for the Center. The detail and specification of the item can be collected from the date of publication of the advertisement in the newspapers or notification on the websites, 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, T.W.C., or downloaded from the websites, www.iccs.edu and www.pprasindh.gov.pk. The last date of issuing of the bid documents is 16-12-2013. 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, T.W.C. latest by 2.30 p.m. on 17-12-2013. 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.

For detail of any information:

Contact:

MR. SHABBIR AHMED

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DIRECTOR

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Contact person

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H.E.J Research Institute of Chemistry
University of Karachi

DETAIL OF THE ITEM

S.No.	Item	Quantity	Estimated Cost
1.	Gel Permission Chromatography (GPC) System	1	Rs. 3.0 million

Gel Permeation Chromatography (GPC) with Revised Specifications

The GPC system with following specifications

1. Isocratic pump with programmable flow rate of 0.2 to 10 mL/min and capable of working with back pressure of 5000 psi
2. Refractive index detector (RI range: 1-1.75 (RIU, Flow rate : 5 mL/min)
3. Manual injector (Loop sizes 5,20,50,100,200 uL) with automatic triggering system
4. Column oven/heater (Temperature range = ambient to 60°C) with capacity of at least three 30 cm columns
5. Completely software controlled system
6. Software to analyze GPC data and should reveal M_p , M_w and M_n values (should be upgradeable for chemical composition analysis across MMD with dual detection)
7. Any other hardware or software required for proper functioning of the GPC system
8. Compatible computer with all related accessories (LCD screen, printer etc.)
9. Software installation, instrument training & familiarization, and after sale service
10. Other accessories:
 - a. Polystyrene standards kit (covering range from 100-100000), if the range is not covered with a single kit, couple of separate standards can be quoted along with the kit.
 - b. 200 uL syringes, 10 ul syringes (2+1)
 - c. 5/10 mL volumetric flasks (20+20)
 - d. Columns
Styrene divinylbenzene GPC column, organic solvents, 7.8*300 mm, Linear, M. wt. range 50-100000 or equivalent.
 1. Set of two columns with a guard column in THF
 2. Set of two columns with a guard column in chloroform