

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

**TENDER NOTICE NO. HEJ-FT-NIR-060514**

Sealed tenders are invited from the authorized dealers/sole distributors, registered with Sindh Board of Revenue and Income Tax Department for import of the **FT-NIR Spectrophotometer** for the Center on **2-envelope procedure** basis. The detail and specification of the item can be collected from Purchase Office of the Center, after publication on the advertisement in the daily newspapers or the date of notification of the advertisement on the websites, 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 **05-05-2014** 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 **06-05-2014**. **Only** technical offers of 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 any information or detail:

Contact:

**MR. SHABBIR AHMED**

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***DIRECTOR***

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**Contact Person:**

*Dr. Shakeel Ahmed*

Industrial Analytical Center; Intercom # 190

**SPECIFICATIONS OF FT-NIR SPECTROPHOTOMETER**

<b>S.No.</b>	<b>Parameter</b>	<b>Description</b>	<b>Estimated cost</b>
1.	Spectral range	Transmission 11500-2200 $\text{cm}^{-1}$	Rs. 7.0 million
2.	Spectral resolution	More than 20 $\text{cm}^{-1}$	
3.	Wavelength reproducibility	More than 0.003 $\text{cm}^{-1}$	
4.	Wavelength accuracy	Better than 0.2 $\text{cm}^{-1}$	
5.	Noise ratio signals	<15 $\mu$ A RMS or better	
6.	Light source	Long life quartz Tungsten/Halogen or suitable for NIR range	
7.	Detector	DTGS/InAs/InGaAs	
8.	Accessories	Accessories for analysis of liquid and solid samples	
9.	System Design	Non hygroscopic beam splitter eliminating the need of desiccants	
10.	Temperature range	20-40°C	
11.	Photometric accuracy	Better than 0.1%T	
12.	Performance check	Permanent on-line diagnostics of all accessories	
13.	Connectivity	Ethernet interface, 10/100Mbps	
14.	Instrument qualification	Software support OQ,PQ,IQ and DQ	
15.	Software	Branded PC with original software capable of operating in Windows XP, with laser jet printer.	
16.	Library	Complete library for petroleum product, pharmaceuticals (excipients and active materials), pesticides, polymers, excipients, narcotics etc.	

# SUMMARY SHEET

**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

<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>	

