

**NATIONAL CENTRE OF
EXCELLENCE
IN ANALYTICAL CHEMISTRY**
University of Sindh, Jamshoro Pakistan

S. No. _____

Purchase Date: _____

Submit Date: _____

Last Date of Submission

APRIL 15th 2016



TENDER DOCUMENT

Issued By:

Principle Investigator
ProjectNo.6-6/Pak-US/HEC/2015/06
National Centre of Excellence In Analytical Chemistry,
University Of Sindh, Jamshoro – Pakistan



**National Centre of Excellence in Analytical Chemistry
University of Sindh, Jamshoro**

**Tender Documents
Specification of FT-IR Spectrometer**

S. No	Technical Data	Qty.	Quoted Price in C&F	Quoted Price in F.O.R
01	<p><u>FT-IR Spectrometer</u></p> <p>The equipment must come from a reputable brand in the market with direct manufacturer support - engineer, application and logistics locally. It must have a strong track record for reliability, robustness and reproducibility. The FTIR Spectrometer should be the latest technology breakthrough conceived to substantially elevate performance in QA/QC and routine laboratories for testing all applications. All Spares parts & Optics should be available as user-exchangeable, instant connect modules pinned & placed, such as the user can change the instrument configuration to respond to a specific workload by simply swapping modules by given instrument software. Instrument Software should be capable of Validation of Instrument & self-test the instrument.</p>			
02	<p>Interferometer</p> <p>Michelson, with dynamic alignment, high stability</p>			
03	<p>BeamSplitter</p> <p>XT-KBr</p>			
04	<p>Resolution</p> <p>0.4 cm-1</p>			
05	<p>Signal-to-noise</p> <p>35000:1 peak to peak</p>			

06	Spectral Range 11800 – 350 cm-1			
07	Sealed and Desiccated Instrument should be Sealed and Desiccated			
08	Purge Instrument should be with a option of purge with inert gas. With Ambient and internal Humidity sensor. Should include Purge Kit.			
09	Laser HeNe Laser			
10	Source Ever Glow Source & White Light Source for NIR			
11	Detector DTlaGs Detector			
12	System Status Indicators Indicator lights report scan, laser, power, and source status continuously			
13	Validation Instrument should has Internal Validation system with Serialized, traceable standards wheel including 1.5 MIL (38 micron) NIST traceable polystyrene			
14	Automation Microprocessor controlled optical bench digital speed control automatic gain selection, aperture changer, and advance system cheek			
15	Sampling Mode Default Transmission, Single Bounce Diamond ATR & Diffuse Reflectance			
16	Sampling Kit Advanced Transmission Starter Kit			
17	Sampling Accessories (Mid Infrared Rang) Diffuse Reflectance			

18	<p>Reference Libraries (Should not be quoted as Optional Item)</p> <p>Biodiesel/Organic Fuel Library , Organic Reagents, Organic reagents Solid</p>			
19	<p>Data Station(Dell Or Equivalent)</p> <p>Core i5 , 4 GB DDR III, 500 GB Hard Disk, DVD Combo, LCD 19 " Keyboard Mouse, USB 64 GB</p>			
20	<p>Printer</p> <p>HP LaserJet P1102</p>			
21	<p>UPS</p> <p>6 KVA UPS for 30 mins backup time</p>			
22	<p>Training</p> <p>The supplier must provide training for the users of the instruments at site, after installation and commissioning</p>			
23	<p>System Warranty and Technical</p> <p>On-site installation, commissioning, training and IQ/OQ (one vendor support) by factory-trained Engineer is required</p>			
24	<p>Support</p> <p>The supplier must provide assurance to have a facility in a local city and dedicated team, consists of sales, engineers and application engineers/chemist to provide efficient & effective support of the equipment during equipment breakdown. Engineer should certify directly form manufacturer regarding instrument validation and supplier must submit a copy of engineer certificate.</p> <p>The supplier must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose.</p> <p>Tenderer provide assurance for back up equipment support for testing must be available at the supplier's facility during equipment breakdown.</p> <p>Comprehensive support for equipment for a period of 12 months which will consist of</p>			

	the following at no extra cost: The warranty shall commence only upon successful completion of the Acceptance Test or commissioning			
	Total Amount with GST 17% or Total Value with Freight Charge			

Principle Investigator
National Centre of Excellence in Analytical
Chemistry, University of Sindh, Jamshoro
Project No.6-6/Pak-US/HEC/2015/06

Terms & Conditions

1. The due receipt of the tenders is 15th April 2016. The tenders will be recovered on 22nd April 2016 and lastly on 28th April 2016 up to 01: 00 p.m which will be opened on the same day at 03: 00 p.m before the contractor or authorized person.
2. Earnest money @ 2% of the Tender Cost
3. No tenders will be accepted without production of 2% earnest money in shape of call deposit/ pay order.
4. The quoted price should be FOR/C&F
5. The offer must remain valid for 120 days from the date of opening for the successful tender.
6. After the approval of tender, the successful contractor shall be bound to supply the requisite items in the specified time; otherwise the related material will be purchased after completion of the legal proceeding at the risk and cost of the failure.
7. The conditioned tender or accompanying the cross cheque or without accompanying the Bank call deposit or Demand draft on A/c of the earnest money will not be entertained.
8. The contractor shall be bound to abide the rules and regulation of SPPRA along with the specified terms and conditions or directions of the related higher authorities as well as decision of the tenders opening committee.
9. The announcement letter of successful bidders with justification for acceptance or rejection will be affixed within 10 days on the Centre's notice board. The tenders opening committee reserves the rights to accept or reject tender without assigning any reason whereof.

The interested firms/companies may obtain the Tender documents from the Office of Director NCEAC during office hours (09:00 AM – 04: 00 PM) and Tender documents can be download from our website.www.ceacsu.edu.pk

All payments will be accepted in the form of demand draft in favour of Principal Investigator, HEC,PAK-US Project, National Center of Excellence in Analytical Chemistry, Jamshoro.

Principal Investigator

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