

# UNIVERSITY OF TURBAT



**(TENDER DOCUMENTS)**

**For**

**Supply of Lab Equipment & Expendable**

**for Chemistry Department**

**University of Turbat**

1. **INTRODUCTION:**

- 1.11 The University of Turbat (UoT) public sector University of higher Education commission of Pakistan wants to supply of lab equipment & Expendables for Chemistry Department UoT main campus.

2. **BIDDING DATA.** (Salient features of bid).

2.11	Name & address of employer	UoT
	Currency	Pak Rupees
2.12	Amount of bid security	2 % quoted amount
	Period of validity	Three month
2.13	No. of copies of bid to be submitted	One
2.14	To whom bid is to be submitted	Procurement Officer Administration Main campus adjacent to M.8 Ginnah Turbat
2.15	Deadline for submission of the bid	10 <sup>th</sup> of May 2022 03:00 PM.
2.16	Date time and venue of bid opening	Bid will be opened on 10 <sup>th</sup> of May 2022 03:30 PM in the office Director Procurement.

3. **RESPONSIVENESS OF BID**

<b>A bid to be responsive must fulfill the following conditions</b>	
3.11	The bid is valid till the time mentioned in the bid documents.
3.12	The bid prices are firm during the currency of the contract.
3.13	Completion period is offered within the specified limits.
3.14	The bidder is eligible to bid and possesses the requisite experience, capacity & qualifications.
3.15	The bidder has submitted the requisite bid security.
3.16	The bid does not deviate from basic technical parameters/requirements.
3.17	The bid meets the general specifications of the Tender

4. **PRICE ADJUSTMENT FOR DEVIATION IN TERMS OF PAYMENT**

If a bid deviates from the terms of payment as specified in the conditions of contract and if such deviations are acceptable to the Employer, then markup earned for any earlier payments involved in the terms outlined in the bid as compared to those stipulated in the "Conditions of Contract" shall be calculated at the prevailing Bank interest rate and shall be added to the corrected total bid price for comparison purposes only.

5. **Basic eligibility conditions**

The bidders in order to be eligible for giving quotation must meet the following basic conditions.

- i. Technically & financially capable to perform such works.  
(Documentary evidence to be given)
- ii. Must be registered with GST and Income tax departments (copies of certificates to be attached)
- iii. Must agree with terms and conditions given in the bidding documents.

6. **SPECIFIC WORK DATA (BRIEF DISCRIPTION OF THE WORK)**

6.1	Name of the work/supply	Supply of Lab Equipment & Expendable for Chemistry Department at UoT main campus
6.2	Place of supply	The items are required to be supplied at UoT Chemistry Department
6.3	Brief Description of work	The tender involves supply of chemical & Lab Equipment at UoT as per technical specifications and quantities given in the tender documents

7. **Contract Data**

7.1	Employer	University of Turbat
7.2	Contract	Supply of Equipment & Expendable for Chemistry Department at UoT main campus
7.3	Date of Delivery	The supplies are required to be delivered within two month from date of order.
7.4	Employer 's Representative	Procurement Officer
7.5	Performance security	Not Applicable
7.6	Period of removing defects	The defects, if any, must be removed or item replaced within two weeks.
7.7	Insurance	Not Applicable
7.8	Deduction	Income tax will be deducted from bills as per government rules. The suppliers must submit NTN No and clearly state whether they are filer or non –filer.
7.9	GST	The supplier is required to submit copy of invoice with delivery.
7.10	Arbitration	As per relevant rules

8. **General Terms and condition**

- 8.1 All bids must accompany bid security @ 2 % of the quoted amount without which the bid will be out rightly rejected, being non responsive.
- 8.2 The bids must be kept valid for at least one month.
- 8.3 The bidder must provide details / proof of their registration with GST and Income Tax departments.
- 8.4 The items must be delivered at University of Turbat premises in safe and sound condition. The damaged items will have to be replaced as soon as possible but not later than one week without any additional cost.
- 8.5 Retention money will be deducted @ 5% of the bill, in case part payment is allowed to the supplier.
- 8.6 The ordered items must be delivered within one month from date of order. In case of delay beyond this period, liquidated damages will be charged @ 5% per week of the value of remaining items with a maximum of 10 %.
- 8.7 The Item must be exactly as per the specifications given in the Tender documents. In case of any deviation, the items will be returned back with all risk on the supplier.
- 8.8 The quoted rates must be inclusive of all costs including packing, Transportation, Installation, Taxes etc. No additional payment will be made on any account.
- 8.9 The quantities of the items can be increased or decreased for which no change in price will be allowed.

Seen & accepted  
Name of the firm/  
Bidder with stamps

**Particular conduction of contract**

1. The quantities given against each item are estimated ones and can be increased or decreased without change in rates depending upon actual requirement or space availability.
2. The items will need to be delivered at the main campus of UoT situated at Turbat.
3. Any damage or defect during transportation, loading/un loading or installation/fixing will be on supplier's account and no additional cost will be borne by UoT on this account.
4. For the branded items the firm must produce documentary evidence of the genuineness of the product.
5. Part payment may be allowed at the sole discretion of UoT; however in such event, UoT may retain a certain part of the payment.
6. The rates should be quoted item wise; however the tender will be decided on item wise lowest basis.
7. The standard procurement rules and regulations of PPRA will be applicable.

**Technical Specification**

S.NO	Names of Chemicals	Specification	Amount/quantity	UNIT PRICE (Inclusive of All taxes)	Amount(Inclusive of All taxes)
1	Citrate standard for IC	analytical standard (Sigma-Aldrich)	1000 mg/L		
2	Methanol CATALOG # 14262	(Sigma-Aldrich)	2 L		
3	Ethanol ≥99.5% CATALOG # 32205	(Sigma-Aldrich)	2.5L		
4	Acetonitrile 99.8% CATALOG # 271004	(Sigma-Aldrich)	1L		
5	Certified Reference Material (sewage water) ERMCA713	(Sigma-Aldrich)	100 mL		
6	Multiwalled carbon nanotubes CATALOG # 659258 (Sigma-Aldrich)	(Sigma-Aldrich)	10 g		

7	MacConkey Agar M7408	(Sigma-Aldrich)	500 g		
8	Potato Dextrose Agar CATALOG # 70139	(Sigma-Aldrich)	2.5Kg		
<b>List of Apparatus</b>					
1	Micropipette (10-100 $\mu$ L) Eppendorf  3120000046		100		
2	Micropipette (100-1000 $\mu$ L) Eppendorf 3120000062		100		
3	Micropipette tips Eppendorf CLS4713-1000EA		100		
4	Centrifuge microtubes Eppendorf Z606340-1000EA				
5	Centrifuge tubes (15 mL) CLS430052-500EA		(Pack of 50)		
6	Centrifuge tubes (50 mL) CLS430290-500EA		(Pack of 25)		
7	Sample collection bottles		100		
8	Wash bottles Z423149-1PAK		(pack of 6)		
9	Beakers+Pipettes+flasks (different volume)		100 to 200		
10	Whatman® GD/X syringe filters		2		

	Nylon membrane				
11	PD1015 Glass Petri Dish 150 x 30mm	LabScientific	30 quantities		
12	Silica-polymer composite proton exchange membrane CATALOG # 595780	(Sigma-Aldrich)	40 µm		
13	Nafion® 115 CATALOG # 541346				
14	Ultrafiltration disc 5 kDa NMWL,				
<b>List Of Permanent Equipment</b>					
1	Centrifuge Machine	<b>Centrifuge Machine</b> digital microprocessor controlled speed range 250 to 6000 rpm, digital display of preset and actual speeds, timer range 0 – 30 minute and continuous run with lid lock system, automatic imbalance indication with safety shut off, complete with stainless steel Angle Rotor capacity 12 x 15ml tubes, ABS housing resistant against shock & chemicals, operated on 220 Volts,	1		
2	Conductivity meter	Conductivity: 0.00 Us/Cm~199.9 Ms/Cm TDS: 0.1 Mg/L~199.9 G/L Salinity: 0.0 Ppt~80.0 Ppt Resistivity: 0Ω.Cm ... 100mΩ.Cm Power Supply: 4xaa/Lr6	2		



3	<p><u>Remaining Parts of HPLC System Quaternary Gradient S 600 Sykam</u></p>	<p><b><u>Remaining Parts of HPLC System Quaternary Gradient S 600 Sykam Made in Germany.</u></b></p> <p><b>1. 4-Channel Vacuum Degasser</b></p> <p>Integrated in Pump System Sykam Germany.</p> <p><b>2. Manual Injector</b></p> <p>High-Pressure Sample injector valve S 6020 with mounting bracket. Sample injection by means of a microliter syringe capacity of sample loop 20µl with NFi (No-Flow-Interruption)</p> <p>Technology</p> <p>Catalog No. S000151</p> <p><b>3. S7150 Solvent Organizer Inert plastic tray</b></p> <p>with 4 bottles (clear glass, 1000 ml) Sykam Made in Germany</p> <p><b>4. Data System Cat No. S000233 Consisting of:</b></p> <p>Clarity Chromatography Software</p> <p>21 CFR Part 11 compliant software for a single HPLC system (1 timebase); upgradable to 4 independent systems Cat No. S000088</p> <p>Add-On: HPLC Instrument Control</p> <p>Clarity Software</p> <p>Instrument control module for HPLC instruments (e.g. pumps, detectors) Cat No. S000090</p> <p><b>5. HPLC Columns C8 &amp; C18</b></p> <p><b>6. Computer &amp; Printer Branded</b></p>			
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4	Power Potentiostat	<ul style="list-style-type: none"> <li>• Support 2-, 3- or 4-electrode system: Potential and current range: Automatic</li> <li>• Potential control range: <math>\pm 10V</math>: Current control range: <math>\pm 2A</math></li> <li>• Potential control accuracy: <math>0.1\% \times \text{full range} \pm 1mV</math>: Current control accuracy: <math>0.1\% \times \text{full range}</math></li> <li>• Potential resolution: <math>10\mu V</math> (<math>&gt;100Hz</math>), <math>3\mu V</math> (<math>&lt;10Hz</math>): Current sensitivity: <math>1pA</math></li> <li>• Rise time: <math>&lt;1\mu s</math> (<math>&lt;10mA</math>), <math>&lt;10\mu s</math> (<math>&lt;2A</math>): Reference electrode input impedance: <math>1012\Omega    20pF</math></li> <li>• Current range: <math>2nA \sim 2A</math>, 10 ranges: Compliance voltage: <math>\pm 21V</math></li> <li>• Maximum current output: <math>2A</math>: CV and LSV scan rate: <math>0.001mV \sim 10,000V/s</math></li> <li>• CA and CC pulse width: <math>0.0001 \sim 65,000s</math>: Current increment during scan: <math>1mA @ 1A/ms</math></li> <li>• Potential increment during scan: <math>0.076mV @ 1V/ms</math>: SWV frequency: <math>0.001 \sim 100 kHz</math></li> <li>• DPV and NPV pulse width: <math>0.0001 \sim 1000s</math>: AD data acquisition: <math>16bit @ 1 MHz, 20bit @ 1 kHz</math></li> <li>• DA Resolution: <math>16bit</math>, setup time: <math>1\mu s</math>: Minimum potential increment in CV: <math>0.075mV</math></li> <li>• IMP frequency: <math>10\mu Hz \sim 1MHz</math>: Low-pass filters: covering 8-decade</li> <li>• Operating System: Windows 2000/NT/XP/7/8/10: Interface: USB 2.0</li> <li>• Weight / Measurements: <math>6.5kg, 36.5 \times 30.5 \times 16 cm</math></li> </ul>	1		
	<b>Sub Total</b>				