



**TENDER DOCUMENTS**

**BIOLOGY LAB EQUIPMENT**

**NUTECH/SCM/Biology Lab-2019/TD-031**

# NATIONAL UNIVERSITY OF TECHNOLOGY

## TENDER NOTICE

**National University of Technology (NUTECH)**

**NUTECH/SCM/Biology Lab-2019/TD-031**

Sealed bids are invited from Government / FBR Registered Firms for the procurement of Biology Laboratory Equipment & Chemicals for NUTECH Technology Labs.

1. Tender documents containing terms & conditions and detailed specifications of items can be downloaded from NUTECH website "<https://nutech.edu.pk/d-p.php>" w.e f **12 Feb 2019**.
2. Quotations shall be submitted as per requirement of the tender documents.
  - a. Bidders will be required to submit bank draft/PO equal to 5% of quoted value as Bid Bond in favor of National University of Technology (NUTECH).
3. Sealed bids with detailed specification should reach on the following address latest by **1130 hours on 01 March 2019**. Late submission will not be entertained.
4. Bids will be opened at **1200 hours on 01 March 2019 at SCM Office**.
5. Project is to be completed in 75 days from the date of award of contract.
6. Submit Rs 1500/- as Tender fee in favour of NUTECH, Bank Alfalah Acct:5546-5001002354. Please attach bank receipt with technical offer. Offers will not be entertained without payment of processing fee.

**Deputy Director (Supply Chain Management Office)**  
**NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH) UPROAD,SECI-12,**  
**ISLAMABAD**  
**Tel: 0092-51-5476768, Ext :178**



## NATIONAL UNIVERSITY OF TECHNOLOGY

### SUPPLY CHAIN MANAGEMENT OFFICE

#### INVITATION TO TENDER

**Submission Date/Time 01 Mar 2019** at 1130 hours

1. NUTECH desires to procure the list of item(s)/Store(s) as per **Annexure-A**. Interested bidders are requested to send their bids through courier or deliver at NUTECH under two separate sealed envelopes (placed together in third envelope), marked clearly, "**Technical Offer**" and "**Commercial Offer**", respectively to the undersigned, latest by or before above mentioned due date. If due to any unforeseen circumstances, NUTECH establishment remains closed, then the last date of submission will be extended to next working day.

2. Please also note that Technical Offer should contain Annexes-A & B duly filled in (supported with relevant technical literature /details/ catalogues etc) and receipt of tender processing fee. Commercial Offer will contain Annexure-C and bid bond. Please ensure no space is left blank in the annexes.

3. Following must be noted for this IT (Invitation to Tender):-

- a. 2 x copies of technical offer are to be provided.
- b. Annexes A, B and C must be signed and stamped. Attach only relevant documents.
- c. Please complete all document as per given format. Do not use your format or letter head. Offer may be rejected if given format is not followed.
- d. Validity of offer will be 90 days.
- e. Delivery period will be 75 days from the date of award of contract.
- f. Tender(s) must be accompanied with a Bid Bond in agreement of faithful compliance of the conditions of Contract/Purchase Order. This amount will be equivalent to 5% of the total quoted value. In case of non-acceptance of any offer, the Bid Bond will be returned to the bidder by fastest possible means. The Bid Bond amount submitted by the successful bidder will however, be refunded on effective termination of Contract/ Purchase Order. (The Bid Bond will be forfeited in case of default by the bidder from his commitments made through his offer). Submission of Bid Bond is mandatory, otherwise your offer will be rejected.
- g. 2 years warranty against 5% bank guarantee will be required from the successful bidders

from the date of commissioning.

h. Rates should be quoted on Free Delivery basis at NUTECH Islamabad.

4. We reserve the rights to accept or reject any or all tenders as a whole or in part without assigning any reason whatsoever. The decision in this regard will be firm, final and binding on all bidders.

DD (Supply Chain Management)



**NATIONAL UNIVERSITY OF TECHNOLOGY**  
**SUPPLY CHAIN MANAGEMENT OFFICE**  
**TECHNICAL OFFER**

**Annex A**

User Reference No **Biology Lab -002** Date: **31-01-2019**

**Technical Specification**

Ser	Items	Description	Country of Origin	A/U	Qty Req	Bidder Compliance			Tech Scrutiny to be done by user	
						Yes	No	Alternate Offer	Accepted	Rejected
									Reason of Rejection	
<b>BIOLOGY LAB CHEMICALS</b>										
1	PCR purification kits	DNA purification in good handable amount	European /North American	Nos	10					
2	qRT-PCR kits	Fast, highly efficient, SYBR Green kits (in dry ice environment)	European /North American	Nos	10					
3	Plasmid DNA purification kits	Plasmid DNA purification in good handable amount (in dry ice environment)	European /North American	Nos	5					
4	Cloning kits	Fast, with TOPO10 bacterial strain, efficient at room temperature (in dry ice environment)	European /North American	Nos	5					
5	Restriction enzymes	Fast, exonuclease activity, nonspecific DNase activity (in dry ice environment)	European /North American	Nos	10					
6	Agarose	ACS reagent 99.8%	European /North	Kg	2					

**BIOLOGY LAB EQUIPMENT**

1.	qRT-PCR	Gradient, operational range 30-100°C, Range of excitation/emission wavelengths 450-730 nm	European / North American region	Nos	1				
2.	SDS-PAGE	Transparent tanks, runs up to 16 samples, comb thickness 1 X 1.5 (mm), buffer volume 1200 ml	European / North American region	Nos	1				
3.	Incubator	Temp range: 4-80°C, Audible and visual alarms, Automatic power failure restart	European / North American region	Nos	1				
4.	Refrigerated mini centrifuge	Temp range -9 to 40°C, fast cool option and stand by cooling, ability to spin Eppendorf tubes only, Max. speed : 11000 rpm/ 18000 g	European / North American region	Nos	1				
5.	Calcination furnace	Box type normalizing furnaces, tempering furnaces, annealing furnaces, shaker hearth furnaces, continuous heat treatment furnaces, rotary furnaces, gas carburizing furnaces	European / North American region	Nos	1				
6.	Ultraviolet fluorescence analysis cabinet	CC-80 and CL-150 fluorescence analysis cabinets offer superior fluorescence	European / North American region	Nos	1				
7.	Bath sonicator	Stainless steel, tank size 300X150X150 Mm, power supply 110/120 V, 220/240 V	European / North American region	Nos	1				
8.	Medium phase column	Lengthen 437mm, volume 58mm	European / North American	Nos	1				

			region						
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### Special Instructions Biology Lab - Chemicals

Description	Bidder			Tech Scrutiny to be done by User		
	Yes	No	Alternate Offer	Accepted	Rejected	Reasons of Rejection
<b>Environment Conditions:</b> (a) Temperature range: 05°C to +45°C (b) Relative humidity: 0-50% non-condensing (c) Supplier must maintain the desired temperature of chemicals during transportation. (d) Chemicals which have to be transported in dry ice environment must be as required.						
<b>Warranty period:</b> Shelf life should not be less than 2 years from the date of delivery. A warranty sticker is to be pasted on each item by the Supplier highlighting Name of Firm, manufacturing date, description of Store and Warranty validity						
<b>Test samples:</b> Supplier will provide samples of chemical to check quality (where applicable)						
<b>Publications:</b> Supplier is to provide hard and soft copies (CD) of following manuals. (a) <b>Storage requirements</b> sensitivity conditions (sensitive to temperature, water, air and light, humidity) (b) <b>Hazardous conditions</b> (c) <b>Experimental manuals</b> which must contain the list of the experiments in which that chemical can be used.						
<b>Supporting reagents with chemical:</b> Supplier must also provide supporting reagents (buffers) along with chemicals (enzymes) if required.						

<p><b>Additional Spare / Replaceable chemicals:</b> Chemicals nearing expiry may be exchanged/replaced if mutually agreed.</p>						
<p><b>Physical Inspection Criteria:</b> 100% physical inspection of storage conditions during transportation will be carried out at the time of delivery of chemical for following details:-</p> <ul style="list-style-type: none"> <li>(a) Physical condition.</li> <li>(b) Temperature</li> <li>(c) Vessel</li> <li>(b) Sealing of vials/bottles</li> <li>(c) User guide</li> <li>(d) Quality certificate</li> <li>(e) Certificate and verifiable documents that chemicals have been newly synthesized.</li> <li>(f) Brand name and country of origin.</li> <li>(g) Purity/quality should be as specified on label.</li> </ul>						
<p><b>Delivery of chemicals:</b></p> <ul style="list-style-type: none"> <li>(a) Chemicals will be delivered at firm's risk and expense at NUTECH .</li> <li>(b) Any special requirement for storage and usage must be specified in the offer by the supplier.</li> </ul>						
<p><b>Special Notes:</b></p> <ul style="list-style-type: none"> <li>(a) Chemicals must be a standard product of the brand available at web address.</li> <li>(b) In case of degraded chemicals the supplier has to replace the chemical free of cost. Required transportation charges would be borne by the supplier.</li> </ul>						

**Special Instructions Biology Lab - Equipment**



Description	Bidder			Tech Scrutiny to be done by User		
	Yes	No	Alternate Offer	Accepted	Rejected	Reasons of Rejection
<b>Environment Conditions:</b> (a) Temperature range: 5°C to +45°C (b) Relative humidity: 0-50% non-condensing						
<b>Warranty period:</b> Two years from the date of commissioning. A warranty sticker is to be pasted on each item by the Supplier / OEM highlighting Name of Firm, Contract No and date, Description of Store and Warranty validity						
<b>Training Notes:</b> Supplier will provide a set of handouts for training on operation and maintenance of the equipment						
<b>Publications:</b> Supplier is to provide hard and soft copies (CD) of following manuals. (a) <b>Operational / Maintenance manual:</b> - Qty 01 with Equipment and additional Qty 02 for record purposes and should consist of following sections:- (1) <b>Equipment Description /Operation:-</b> (a) Specifications (b) Description (c) Operation (d) Safety precautions (2) <b>Servicing:-</b> (a)Maintenance Schedule (b)Adjustment / test (c)Removal / Installation procedure (d)Tools Used (e) Calibration (3) Trouble shooting guide (4) Cleaning requirements (5) Shipping and receiving (6) Storage requirements (b) <b>IPB</b> (Illustrated Parts Breakdown Manual) should have full parts description along with detailed diagrams (exploded view). (c) <b>Experimental manuals</b> which must contain the list and						

<p>procedure of the experiments that equipment can perform.</p>						
<p><b>Spares / Technical Support:</b>  (a) Supplier to have in-country spares / technical support and ensure spares and technical support / assistance for next 10 years  (b) Comprehensive list of spares required for scheduled maintenance of Equipment is to be provided  (c) Any software provided must have its license  (d) Software upgrade support must be provided free of cost for ten years with renewed license at every upgrade  (e) Supplier must also provide calibration service for at least five years after commissioning</p>						
<p><b>Additional Spare / Replaceable parts:</b>  (a) Replaceable spare / parts during scheduled inspections are to be identified and provided as per requirement along with equipment sufficient to cater five years consumption.  (b) All specialized / standard tools required for inspection / repair / servicing must be supplied along with equipment.</p>						
<p><b>Physical Inspection Criteria:</b> 100% physical inspection of store will be carried out before commissioning of the equipment for following details:-  (a) For physical damage, scratches and deformity.  (b) Accessories /components as per contractual specifications.  (c) Technical Manuals (Operation manual, user guide, IPBs).  (d) Quality certificate and calibration certificate by the OEM</p>						

<p>(e) OEM certificate and verifiable documents by the supplier that store has been procured from certified source and is factory new and from latest production.</p> <p>(f) Brand name and country of origin.</p>						
<p><b>Commissioning:</b></p> <p>(a) Commissioning of the equipment will be carried out by OEM rep at his own cost and risk at designated place at NUTECH.</p> <p>(b) Any special requirement for installation, operation and commissioning must be specified in the offer by the supplier.</p>						
<p><b>Training:</b></p> <p>01 week OEM operational/maintenance training at NUTECH</p>						
<p><b>Improvement and Safety Measures:</b></p> <p>Any improvement and safety measures suggested by NUTECH during commissioning are to be resolved by the supplier / manufacturer at no extra cost.</p>						
<p><b>Liability of Supplier:</b></p> <p>(a) OEM certificate of authorized dealership Supplier is to provide original OEM certificate of subject equipment bought directly from the manufacturer and being an authorized dealer.</p> <p>(b) In case the equipment supplied is not compatible with specifications, the supplier will be obliged to call his representatives at his own cost for consultation and corrective action</p>						
<p><b>Special Notes:</b></p> <p>(a) Additional requirements for the maintenance of equipment (if any) must be intimated by the supplier in</p>						

<p>technical offer.</p> <p>(b) Supplier must provide the list of organizations using same equipment in Pakistan (if any).</p> <p>(c) Equipment must be a standard product of OEM available at web address of OEM.</p> <p>(d) In case of premature failure of the equipment, OEM has to replace / rectify the item free of cost. Required transportation charges would be borne by the supplier.</p>						
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<p>Firm Name_____</p> <p>Signature_____</p> <p>Name_____</p> <p>Designation_____</p>
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**NATIONAL UNIVERSITY OF TECHNOLOGY**  
**SUPPLY CHAIN MANAGEMENT OFFICE**

**TECHNICAL OFFER**

**Annex B**

User Reference No **Biology Lab Eqpt-002** Date: **30-01-2019**

**Please fill in the following essential parameters:**

1. Validity of Offer: \_\_\_\_\_ Days (Should not be less than 90 days)
2. Delivery Period: \_\_\_\_\_ Days (After Placement of order)
3. Country of Origin: \_\_\_\_\_
4. Warranty/Guarantee: \_\_\_\_\_ Months from the date of final acceptance of the stores.

**General**

GST No: \_\_\_\_\_ (Please enclose copy)

NTN/CNIC: \_\_\_\_\_ (if exempted, please provide valid exemption certificate)

**Payment Terms:**

1. 50 % advance payment (Against valid bank Guarantee)
2. 50% Payment after delivery, installation /commissioning, user satisfaction certificate

**Details of Payment Recipient**

(1) Name/Title: \_\_\_\_\_

(2) Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Official Seal: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_



**NATIONAL UNIVERSITY OF TECHNOLOGY**  
**SUPPLY CHAIN MANAGEMENT OFFICE**

**FINANCIAL OFFER**

**Annex C**

User Reference No **Biology Lab Eqpt-002** Date: **31-01-2019**

Ser	Items	Description	A/U	Qty Req	Unit Price (Rs) (excluding GST)	GST (If applicable)	Custom Duty (Rs) (If applicable)	Total amount (Rs)
<b>BIOLOGY LAB CHEMICALS</b>								
1	PCR purification kits	DNA purification in good handable amount	Nos	10				
2	qRT-PCR kits	Fast, highly efficient, SYBR Green kits (in dry ice environment)	Nos	10				
3	Plasmid DNA purification kits	Plasmid DNA purification in good handable amount (in dry ice environment)	Nos	5				
4	Cloning kits	Fast, with TOPO10 bacterial strain, efficient at room temperature (in dry ice environment)	Nos	5				
5	Restriction enzymes	Fast, exonuclease activity, nonspecific DNase activity (in dry ice environment)	Nos	10				
6	Agarose	ACS reagent 99.8%	Kg	2				
<b>BIOLOGY LAB EQUIPMENT</b>								
1.	qRT-PCR	Gradient, operational range 30-100°C, Range of excitation/emission wavelengths 450-730 nm	Nos	1				
2.	SDS-PAGE	Transparent tanks, runs up to 16	Nos	1				

		samples, comb thickness 1 X 1.5 (mm), buffer volume 1200 ml					
3.	Incubator	Temp range: 4-80°C, Audible and visual alarms, Automatic power failure restart	Nos	1			
4.	Refrigerated mini centrifuge	Tem range -9 to 40°C, fast cool option and stand by cooling, ability to spin Eppendorf tubes only, Max. speed : 11000 rpm/ 18000 g	Nos	1			
5.	Calcination furnace	Box type normalizing furnaces, tempering furnaces, annealing furnaces, shaker hearth furnaces, continuous heat treatment furnaces, rotary furnaces, gas carburizing furnaces	Nos	1			
6.	Ultraviolet fluorescence analysis cabinet	CC-80 and CL-150 fluorescence analysis cabinets offer superior fluorescence	Nos	1			
7.	Bath sonicator	Stainless steel, tank size 300X150X150 Mm, power supply 110/120 V, 220/240 V	Nos	1			
8.	Medium phase column	Lengthen 437mm, volume 58mm	Nos	1			
				<b>Total</b>			

Bid Bond Ref \_\_\_\_\_

Total Gross Value \_\_\_\_\_

\*Custom duty is to be quoted separately.

\*\*Bid Bond to be attached with Annex C. Copy of Bid Bond be attached with Technical offer without showing its value)

Firm Name _____ Signature _____ Name _____ Designation _____
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