



Centre for Advanced Research in Sciences (CARS)
University of Dhaka, Dhaka 1000.

Invitation for Tender (National)

Ref. No. CARS/ST/P-289/OTM/RB/2020-2021

Date : ১৬-০৭-১৪২৭ বঙ্গাব্দ
01-11-2020 খ্রিষ্টাব্দ

Sealed Tenders are hereby invited from reputed supplier for Supply, Installation, Testing and Commissioning of Real-Time PCR Machine at the CARS, University of Dhaka.

1.	Ministry/Division	Ministry of Education		
2.	Agency	University of Dhaka		
3.	Procuring Entity Name	Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
4.	Procuring Entity Code	Not used		
5.	Procuring Entity District	Dhaka		
6.	Invitation for	Supply, Installation, Testing and Commissioning of Real-Time PCR Machine at CARS.		
7.	Invitation Ref No.	CARS/ST/P-289/OTM/RB/2020-2021		
8.	Date :	01-11-2020 খ্রিষ্টাব্দ		
KEY INFORMATION				
9.	Procurement Method	Open Tendering Method		
FUNDING INFORMATION				
10.	Budget and Source of Funds	Revenue Budget (RB) 2020-2021		
11.	Development Partner (if applicable)	N/A		
PARTICULAR INFORMATION				
12.	Project/Programme Code (if applicable)	Not used		
13.	Project/Programme Name (if applicable)	Not Applicable		
14.	Tender Package No.	Single		
15.	Tender Package Name	Supply, Installation, Testing and Commissioning of Real-Time PCR Machine at CARS.		
16.	Tender Publication Date	01-11-2020 খ্রিষ্টাব্দ		
17.	Tender Last Selling Date	23-11-2020 খ্রিষ্টাব্দ Up to office hours		
18.	Tender Closing Date and Time	Date :		Time:
		24-11-2020 খ্রিষ্টাব্দ		12:00 Noon
19.	Tender Opening Date and Time	24-11-2020 খ্রিষ্টাব্দ		12:30 pm
20.	Name & Address of the Office(s)	Address(s)		
	-Selling Tender Document (Principal)	(i) Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
	-Receiving Tender Document	(i) Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
	-Opening Tender Document	Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
21.	Place/Date/Time of Pre-Tender Meeting	Name/Address	Date:	Time

INFORMATION FOR TENDERER			
22.	Eligibility of Tenderer	(i) Up to date Trade License (ii) Up to date VAT Registration Certificate (iii) Up to date Income Tax Clearance Certificate (iv) Experience Certificate in similar works of comparable value in a single tender in last five years as mentioned in TDS (v) Bank solvency Certificate (vi) Manufacturer Authorization letter for applicable Equipment. (vii) Applicant must be owner of the firm or Representative of the firm will be authorized by the owner of the Firm signature with name and seal of the owner. (viii) Country of origin and made in country will be same. If differ then explain clearly with black and white. (ix) Color catalogue of the Equipment. (x) The Supplier has to avail an expert maintenance team, list of application training support team and needed submission of team member's list with Bio-data. (xi) Competency certificate of after sale service as mentioned in the TDS. Availability of Spare- Parts Certainty declaration at least 10 years. (xii) Warranty: free of cost spare- parts 3 years, Installation and training must be provided by the supplier.	
23.	Brief Description of Goods	Supply, Installation, Testing and Commissioning of Real-Time PCR Machine at CARS.	
24.	Brief Description of Related Services	Supply, Installation, Testing and Commissioning of Real-Time PCR Machine at CARS.	
25.	Tender Document Price TK.-4,000.00	The Price of Tender Schedule as mentioned is to be deposited in A/C No. 36000392, Janata Bank, T.S.C branch, Dhaka University . Tender schedule and terms and conditions may be collected on submission of the deposit receipt from the above mentioned offices on all working days except on the date fixed for submitting the tender.	
26.	Identification/Name of Equipment	Location	Tender Security Amount in Taka
	Real-Time PCR Machine	CARS, DU.	Real-Time PCR Machine 86,400.00
			90 days from the date of issuance a Purchase order
PROCURING ENTITY DETAILS			
27.	Name of Official Inviting Tender	Prof. Dr. Md. Abdul Malek	
28.	Designation of Official Inviting Tender	Director	
29.	Address of Official Inviting Tender	Centre for Advanced Research in Sciences (CARS), University of Dhaka.	
30.	Contact details of Official Inviting Tender	9661900/Ext. 4616/ 4636.	
31.	The procuring entity reserves the right to accept or reject any or all tenders without assigning any reason whatsoever. The procuring authority also reserves the right to omit, increase or decrease the quantity of Real-Time PCR Machine from the Tender. The suppliers must abide by the decision of the University authority. Tender form, schedule of requirements of supply, tender notice and terms and conditions etc. will form the integral part of the tender. The suppliers should write the name of the item and the name of the firm on the envelope clearly . Vat, Income Tax and other Taxes, if any, imposed by the Govt. will be deducted from their bills as per Govt. rules.		

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Director

Centre for Advanced Research in Sciences (CARS)

University of Dhaka.

Section 6. Schedule of Requirements

This Section provides the List of Goods and Delivery Schedule and List of Related Services and Completion Schedule and must be carefully prepared by a Procuring Entity for each object of procurement.

Invitation for Tender No :		Date :	
Tender Package No :			

A. List of Goods & Related services and Delivery Schedule

Item No.	Description of Item	Unit of Measurement	Quantity	Point of Delivery	Delivery Period Required
1	2	3	4	5	6
	Real Time PCR Machine	Set	01	CARS, DU	90 days from the date of issuance a purchase order.
01	<p>Reverse Transcriptase PCR Detection System</p> <p>The system should include :</p> <ol style="list-style-type: none"> 1) Thermal Cycler Chasis Optical Reaction Module Software 2) Communication Cable with computer 3) Solid State 6 filtered LEDs Shuttle, no moving part that should eliminate yearly calibration. <p>Technical Specifications:</p> <p>Sample capacity: 96 wells</p> <ul style="list-style-type: none"> • Licensed for real-time PCR: Yes • Sample size, µl: 1–50 (recommend 10–25) <p>Base Thermal Cycler Chasis</p> <ul style="list-style-type: none"> • Max ramp rate: 5°C/sec • Ave ramp rate: 3.3°C/sec • Heating & cooling method: Peltier • Lid: Heats up to 105°C • Temperature Range: 0–100°C • Accuracy: ±0.2°C within programmed target at 90°C • Uniformity: ±0.4°C within 10 sec of arrival at 90°C • Gradient: Yes • Operational range: 30–100°C • Programmable span: 1–24°C <p>Fast Scan Option</p> <p>Single-channel fluorescence from all 96 wells in just 3 seconds.</p> <p>Fluorescence Resonance Energy Transfer (FRET)</p> <p>options.</p> <ul style="list-style-type: none"> • Excitation range: 450–684 nm • Light source: 6 LEDs in optics shuttle • Optical detection: 6 photodiodes • Detection range: 550–730 nm • Multiplex capability: Up to 5 targets 				

Gradient Capability

12 Column Gradient Capable

Gradient Range: 30–100°C

Maximum Gradient Span: 24°C

Sensitivity: Detects 1 copy of target sequence in human genomic DNA

Dynamic range: 10 orders of magnitude

Scan Time

- **All channels:** 12 sec
- **Fast single channel:** 3 sec
- **Integrated gene expression analysis:** YES
- **Communication interface:** USB 2.0
- **Electrical approvals:** IEC, CE

Software: for intuitive experiment setup and data analysis:

Compatible to OS Windows 10

After sell service conditions:

Installation and spare parts, maintenance and training must be provided by the supplier.

Warranty : 3 years from the date of installation. Installation and training must be provided by the supplier.

Country of Origin : USA/UK/EU/Japan or equivalent.

B. List of Related Services and Completion Schedule

Installation and Commissioning

1. installation and operation of the instrument Must be ensured by the Bidder. Installation Must be free of charge. The Local Agent Must have a track record of handling and installing such high tech equipment and submit evidence thereof.
2. The Bidder Must ensure the installation environment quality, operational quality and system performance quality be qualified instrumentation and application personnel having proven record of experience in the instrument installation.

Training

3. After installation of the equipment, training must be provided by the Bidder free of charge to three persons nominated by the University of Dhaka within sixty days at site of installation. Subsequent follow up of the training Must also be performed by them to ensure the proper operation of the machine. If necessary, further training must be imparted by them. The training Must include theory, instrumentation, analysis, application and routine maintenance.

Section 7. Technical Specifications

The Goods and Related Services shall comply with following Technical Specifications :

Item No	Name of Item or Related Service	Technical Specification and Standards
1	2	3
	<p>Reverse Transcriptase PCR Detection System</p> <p>The system should include :</p> <ul style="list-style-type: none"> 4) Thermal Cycler Chasis Optical Reaction Module Software 5) Communication Cable with computer 6) Solid State 6 filtered LEDs Shuttle, no moving part that should eliminate yearly calibration. <p>Sample capacity: 96 wells</p> <ul style="list-style-type: none"> • Licensed for real-time PCR: Yes • Sample size, µl: 1–50 (recommend 10–25) <p>Base Thermal Cycler Chasis</p> <ul style="list-style-type: none"> • Max ramp rate: 5°C/sec • Ave ramp rate: 3.3°C/sec • Heating & cooling method: Peltier • Lid: Heats up to 105°C • Temperature Range: 0–100°C • Accuracy: ±0.2°C within programmed target at 90°C • Uniformity: ±0.4°C within 10 sec of arrival at 90°C • Gradient: Yes • Operational range: 30–100°C • Programmable span: 1–24°C <p>Fast Scan Option Single-channel fluorescence from all 96 wells in just 3 seconds.</p> <p>Fluorescence Resonance Energy Transfer (FRET) options.</p> <ul style="list-style-type: none"> • Excitation range: 450–684 nm • Light source: 6 LEDs in optics shuttle • Optical detection: 6 photodiodes • Detection range: 550–730 nm • Multiplex capability: Up to 5 targets <p>Gradient Capability 12 Column Gradient Capable Gradient Range: 30–100°C Maximum Gradient Span: 24°C Sensitivity: Detects 1 copy of target sequence in human genomic DNA Dynamic range: 10 orders of magnitude</p> <p>Scan Time</p> <ul style="list-style-type: none"> • All channels: 12 sec • Fast single channel: 3 sec • Integrated gene expression analysis: yes • Communication interface: USB 2.0 • Electrical approvals: IEC, CE • <p>Software: for intuitive experiment setup and data analysis: Compatible to OS Windows 10 After sell service conditions : Installation and spare parts, maintenance and training must be provided by the supplier.</p>	