



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

Ph: 966 1920-59/Ext. 4618
FAX: +880-02-9667222
Email: cars@du.ac.bd
Website : www.cars.du.ac.bd

Office of the Director

Tender Ref. No. CARS/ST/P-296/OTM/RE/2021

Date : ২০-০২-১৪২৮ বঙ্গাব্দ
03-06-2021 খ্রিষ্টাব্দ

Invitation for Tender (National)

Sealed Tenders (P-296) are hereby invited from reputed supplier for Supply, Installation, Testing and Commissioning of Equipment for different laboratory 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 Equipment for different laboratory at the CARS		
7.	Invitation TenderRef No.	CARS/ST/P-296/OTM/RE/2021		
8.	Date :	03-06-2021 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 lot		
15.	Tender Package Name	Supply, Installation, Testing and Commissioning of Equipment for different laboratory at the CARS		
16.	Tender Publication Date	03-06-2021 খ্রিষ্টাব্দ		
17.	Tender Last Selling Date	27-06-2021 খ্রিষ্টাব্দ Up to office hours		
18.	Tender Closing Date and Time	Date :		Time:
		28-06-2021 খ্রিষ্টাব্দ		10:30 am
19.	Tender Opening Date and Time	28-06-2021 খ্রিষ্টাব্দ		11:00 am
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		



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		(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 2 years for Equipment. Installation and training must be provided by the supplier (free of cost).		
23.	Brief Description of Goods	Supply, Installation, Testing and Commissioning of Equipment for different laboratory at the CARS		
24.	Brief Description of Related Services	Supply, Installation, Testing and Commissioning of Equipment for different laboratory at the 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	Completion Time
	Equipment	CARS, DU.	Equipment 57,000	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 quantities of Equipment 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.			

স্বাক্ষরিত/-

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Director
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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	
1	ELISA Reader and Auto Washer	ELISA Reader with following specifications :			No's	1
		Spectral range	: 400–750 nm			
		Photometric Methods	: Single or dual wavelength			
		Bandwidth	: ≤10 nm			
		Indication range	: 0.0–3.5 OD			
		Interference filters	: Wavelength tolerance: ±3.0 nm, Band width: 10 nm typically			
		Filters Capacity	: 8-position filter wheel (4 in built filters (415, 450, 490, 655 nm)			
		Detectors (Measurement and reference)	: 8 +1 silicon photodiodes			
		Light source	: Tungsten halogen lamp			
		Linearity	: ≤2.0%			
		Accuracy	: ±1.0%			
		Reproducibility	: ≤ 1.5%			
		Stability and drift	: ≤0.010 OD			
		Resolution	: 0.001 OD			
		Plate types	: 96-well microplate; maximum plate height: 16 mm			
		Plate shaking	: 3 speeds: low, mid, high; duration: 0–			

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		<p>999 sec</p> <p>Interface with software via USB connection to PC : Customize individual protocols, reduce data, and analyze data comprehensively</p> <hr/> <p>Auto Washer</p> <p>Residual well volume : <6 μl</p> <p>Soak time (Strip and plate mode) : 0–9.9 sec and 0–59 min</p> <p>Manifolds : 8- and 12-way</p> <p>Compatible plate types : Any flat- or round-bottomed plate types</p> <p>Waste bottle volume : 2,000 ml</p> <p>Vacuum and dispensing pumps : Integrated vacuum pump with 9 L/min</p> <p>Other features: Protocols should be saved and easily modified. Each protocol will be combination of 4 adjustable procedures (washing, aspiration, dispensing, and agitation) and multiple cycles; Programmable horizontal and vertical needle positions; Overflow washing with circular flow of liquid in each well; Crosswise aspiration; Dispenser speed control; Adjustable plate shaking; Easily accessible for cleaning and maintenance Removable and autoclavable plate carrier; Aerosol protection cover; Preprogrammed disinfection protocol</p> <p>Power supply : 220VAC, 50Hz</p> <p>Warranty : 2 yrs</p> <p>Origin : USA/UK/EU/Japan or equivalent</p>		
2	Chiller with pump for rotary evaporator	<p>Digital display Low Temperature circulator/ Chiller with following specifications :</p> <p>Water circulation method : Closed loop</p> <p>Temp. setting : -20 °C ~ 30 °C</p> <p>Temp. control : Refrigerator ON OFF</p> <p>Temp. Accuracy : ± 2 °C</p> <p>Cooling capacity : 1200 W</p> <p>Pump flow : 10 L/min</p> <p>Pump head max. pressure : 9.5 m</p> <p>Power supply : 220VAC, 50Hz</p> <p>Warranty : 2 yrs</p> <p>Origin : USA/UK/EU/Japan or equivalent</p>	No's	1
3	Block Heater	<p>Heating Block for the precise heating of test-tubes, micro centrifuge tubes and cuvettes and microtitre plates with following specifications :</p> <p>Heating Block : 2 Block (with dia.16mm, minimum</p>	No's	1



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		<p>12 holes) and (1.5ml, minimum 20 holes)</p> <p>Temperature : Ambient +8°C to 200°C</p> <p>Temperature : ± 0.1°C</p> <p>Stability and uniformity</p> <p>Display Resolution : 0.1°C</p> <p>Power supply : 220VAC, 50Hz</p> <p>Warranty : 2 yrs</p> <p>Origin : USA/UK/EU/Japan or equivalent</p>		
4	Mini Spinner	<p>Mini plate spinner with following specifications:</p> <p>Capacity : 2 PCR plates</p> <p>Rotor Speed : 2,500 rpm</p> <p>Rotor : Fixed angle</p> <p>Power supply : 220VAC, 50Hz</p> <p>Warranty : 2 yrs</p> <p>Origin : USA/UK/EU/Japan or equivalent</p>	No's	1
5	Dosimeter	<p>Electronic Personal Radiation Dosimeters for measurement of X-ray and gamma radiation with following specifications:</p> <p>Measurement and display : X-ray and gamma energy</p> <p>Measurement range : 0.1 µSv to 10 Sv</p> <p>Saturation indication : > 10 Sv or 10 Sv/h</p> <p>Dose Rate Linearity : < ± 20% up to 10 Sv/h</p> <p>Warranty : 2 yrs</p> <p>Origin : USA/UK/EU/Japan or equivalent</p>	No's	1

Warranty : 2 years full warranty from the date of installation for the all equipment with spare-parts (free of cost).

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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
»	CARS	Supplier
1	ELISA Reader and Auto Washer	<p>ELISA Reader with following specifications :</p> <p>Spectral range : 400–750 nm Photometric : Single or dual wavelength Methods Bandwidth : ≤10 nm Indication range : 0.0–3.5 OD Interference filters : Wavelength tolerance: ±3.0 nm, Band width: 10 nm typically Filters Capacity : 8-position filter wheel (4 in built filters (415, 450, 490, 655 nm) Detectors : (Measurement and reference) : 8 +1 silicon photodiodes Light source : Tungsten halogen lamp Linearity : ≤2.0% Accuracy : ±1.0% Reproducibility : ≤ 1.5% Stability and drift : ≤0.010 OD Resolution : 0.001 OD Plate types : 96-well microplate; maximum plate height: 16 mm Plate shaking : 3 speeds: low, mid, high; duration: 0–999 sec Interface with software via USB connection to PC : Customize individual protocols, reduce data, and analyze data comprehensively</p> <hr/> <p>Auto Washer</p> <p>Residual well volume : <6 µl</p> <p>Soak time (Strip and plate mode) : 0–9.9 sec and 0–59 min Manifolds : 8- and 12-way</p>

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		<p>Compatible plate : Any flat- or round-bottomed plate types Waste bottle volume : 2,000 ml Vacuum and dispensing pumps : Integrated vacuum pump with 9 L/min Other features: Protocols should be saved and easily modified. Each protocol will be combination of 4 adjustable procedures (washing, aspiration, dispensing, and agitation) and multiple cycles; Programmable horizontal and vertical needle positions; Overflow washing with circular flow of liquid in each well; Crosswise aspiration; Dispenser speed control; Adjustable plate shaking; Easily accessible for cleaning and maintenance Removable and autoclavable plate carrier; Aerosol protection cover; Preprogrammed disinfection protocol</p> <p>Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent</p>
2	Chiller with pump for rotary evaporator	<p>Digital display Low Temperature circulator/ Chiller with following specifications :</p> <p>Water circulation method : Closed loop Temp. setting : -20 °C ~ 30 °C Temp. control : Refrigerator ON OFF Temp. Accuracy : ± 2 °C Cooling capacity : 1200 W Pump flow : 10 L/min Pump head max. pressure : 9.5 m Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent</p>
3	Block Heater	<p>Heating Block for the precise heating of test-tubes, micro centrifuge tubes and cuvettes and microtitre plates with following specifications :</p> <p>Heating Block : 2 Block (with dia.16mm, minimum 12 holes) and (1.5ml, minimum 20 holes) Temperature : Ambient +8°C to 200°C Temperature Stability and uniformity : ± 0.1°C Display Resolution : 0.1°C Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent</p>



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4	Mini Spinner	Mini plate spinner with following specifications: Capacity : 2 PCR plates Rotor Speed : 2,500 rpm Rotor : Fixed angle Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
5	Dosimeter	Electronic Personal Radiation Dosimeters for measurement of X-ray and gamma radiation with following specifications: Measurement and display : X-ray and gamma energy Measurement range : 0.1 μ Sv to 10 Sv Saturation indication : > 10 Sv or 10 Sv/h Dose Rate Linearity : < \pm 20% up to 10 Sv/h Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent

Warranty : 2 years full warranty from the date of installation for the all equipment with spare-parts (free of cost).