



**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-299/OTM/GE/2021**

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

**Invitation for Tender (National)**

Sealed Tenders (P-299) 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-299/OTM/GE/2021		
8.	Date :	03-06-2021 খ্রিষ্টাব্দ		
<b>KEY INFORMATION</b>				
9.	Procurement Method	Open Tendering Method		
<b>FUNDING INFORMATION</b>				
10.	Budget and Source of Funds	Revenue Budget (RB) 2020-2021		
11.	Development Partner (if applicable)	N/A		
<b>PARTICULAR INFORMATION</b>				
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	<b>29-06-2021 খ্রিষ্টাব্দ Up to office hours</b>		
18.	Tender Closing Date and Time	<b>Date :</b>		<b>Time:</b>
		<b>30-06-2021 খ্রিষ্টাব্দ</b>		<b>10:30 am</b>
19.	Tender Opening Date and Time	<b>30-06-2021 খ্রিষ্টাব্দ</b>		<b>11:00 am</b>
20.	<b>Name &amp; Address of the Office(s)</b>	<b>Address(s)</b>		
	-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	<b>Name/Address</b>	<b>Date:</b>	<b>Time</b>
<b>INFORMATION FOR TENDERER</b>				
22.	<b>Eligibility of Tenderer</b>	(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		



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		(v) Bank solvency Certificate (vi) Manufacturer Authorization letter for applicable Equipment. <b>(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.</b> 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) <b>Warranty</b> : 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 <b>TK.-4,000.00</b>	The Price of Tender Schedule as mentioned is to be deposited in <b>A/C No. 36000392, Janata Bank, T.S.C branch, Dhaka University</b> . 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.	<b>Identification/Name of Equipment</b>	<b>Location</b>	<b>Tender Security Amount in Taka</b>	<b>Completion Time</b>
	<b>Equipment</b>	CARS, DU.	<b>Equipment</b> 56,500	<b>90 days from the date of issuance a Purchase order</b>
<b>PROCURING ENTITY DETAILS</b>				
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 <b>name of the item and the name of the firm on the envelope clearly</b> . 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  
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University of Dhaka.

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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	<b>Spin Coater</b>	<b>Microprocessor control Spin Coater</b> with following specifications: Spinning Speed : 6 - 9999rpm Substrate diameter : 30mm to 70mm Spin Chamber : Nylon Actuator : Brushless DC motor Acceleration : 5-2000rpm/sec Spinning Speed Accuracy : < 5 % Programmable parameters : Speed, Acceleration, Dwell time and No. of steps Maximum no of steps : 9 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent			No's	1
2	<b>Autoclave Machine</b>	<b>Microcomputer Control Digital Floor Standing Vertical Autoclave</b> with following specifications: Capacity : ≥ 50L Pressure : 0-186 KPa Sterilization temperature range : 105°C ~ 136°C Temperature accurate : 0.1°C Temperature homogeneity : ≤±0.5°C Other facilities : Built-in water tank, water filling, heating up, sterilizing, drying are automatic without artificial regulation; Unwrapped, wrapped, dressings, rubber, user-defined, medium, melt & holding,			No's	1

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		sterilization & holding procedure can be regulated and select according to used requirement. Safety protection : Anti-dry heating alarm, Safety interlock door, Over-temperature protector, over-pressure automatic release safety value, Electric safety protective measure Chamber material : SS 304 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent		
3	<b>Orbital Shaker</b>	Orbital Shaker specification: Speed Range : 30-300 rpm Accuracy : $\pm 1$ rpm Orbital Size : 1 inch Setability : 1 rpm increment Timing : Up to 500 hrs Shaking Mode : Rotary Shaking Platform size : Universal for flask of different volume Std capacity : 250ml* 50 , 500ml*30 Flask size : 250 ml, 500 mL No. of Shaking plate : 2 Power supply : 220VAC, 50Hz Warranty : 2 yrs Includes : Flask clamps, 250 mlX50 and 500 mlX30 Origin : USA/UK/EU/Japan, Taiwan/China/Equivalent	No's	1
4	<b>Single Channel Syringe Pump</b>	Single Channel Syringe Pump for MS calibration, chemical reaction injection, electrospinning, infusion suitable for microfluidics/nanofluidics Volume : 0.01 mL – 60 mL Applicable syringe : All brands of standard syringes: 5,10,20,30 and 50 (60) ml Injection rate range : 5ml: 0.1ml/h —100ml/h 10ml:0.1 ml/h —200ml/h 20ml: 0.1ml/h— 400ml/h 30ml:0.1ml/h —600ml/h Power supply : 220VAC, 50Hz Origin : USA/UK/EU/Japan or equivalent	No's	1
5	<b>pH Meter</b>	Desktop pH meter with following specifications: pH Range : -2.000 to +19.999 pH resolution : 0.001/0.01/0.1 pH accuracy : $\pm 0.003$ pH calibration point : User selectable 1, 2 or 3 Automatic buffer recognition : 4.00, 7.00 and 10.00 (minimum 3 buffer) mV Range : $\pm 1999.9$ mV mV resolution : 0.1/1 mV mV accuracy : $\pm 0.2$ mv Temp. Range : -10 to 105°C Temp. resolution : 0.1°C Temp. accuracy : $\pm 0.5$ °C	No's	1

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		Output : Analogue and RS232 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent		
6	<b>Biomass Pulverizer</b>	Biomass Pulverizer (Blending machine,blendar/grinder) with following specification: Capacity : $\geq 1.5$ L Motor type : $\geq 1000$ W (100% Cu wound) Blade type : Stainless Steel No. of Jar : 4 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/Taiwan/EU/Japan or equivalent	No's	1

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

## 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	<b>Spin Coater</b>	<b>Microprocessor control Spin Coater</b> with following specifications: Spinning Speed : 6 - 9999rpm Substrate diameter : 30mm to 70mm Spin Chamber : Nylon Actuator : Brushless DC motor Acceleration : 5-2000rpm/sec Spinning Speed Accuracy : $< 5$ % Programmable parameters : Speed, Acceleration, Dwell time and No. of steps Maximum no of steps : 9 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent

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2	<b>Autoclave Machine</b>	<p><b>Microcomputer Control Digital Floor Standing Vertical Autoclave</b> with following specifications:</p> <p>Capacity : <math>\geq 50L</math>            Pressure : 0-186 KPa            Sterilization temperature range : <math>105^{\circ}C \sim 136^{\circ}C</math>            Temperature accurate : <math>0.1^{\circ}C</math>            Temperature homogeneity : <math>\leq \pm 0.5^{\circ}C</math>            Other facilities : Built-in water tank, water filling, heating up, sterilizing, drying are automatic without artificial regulation; Unwrapped, wrapped, dressings, rubber, user-defined, medium, melt &amp; holding, sterilization &amp; holding procedure can be regulated and select according to used requirement.            Safety protection : Anti-dry heating alarm, Safety interlock door, Over-temperature protector, over-pressure automatic release safety value, Electric safety protective measure            Chamber material : SS 304            Power supply : 220VAC, 50Hz            Warranty : 2 yrs            Origin : USA/UK/EU/Japan or equivalent</p>
3	<b>Orbital Shaker</b>	<p>Orbital Shaker specification:</p> <p>Speed Range : 30-300 rpm            Accuracy : <math>\pm 1</math> rpm            Orbital Size : 1 inch            Setability : 1 rpm increment            Timing : Up to 500 hrs            Shaking Mode : Rotary Shaking            Platform size : Universal for flask of different volume            Std capacity : 250ml* 50 , 500ml*30            Flask size : 250 ml, 500 mL            No. of Shaking plate : 2            Power supply : 220VAC, 50Hz            Warranty : 2 yrs            Includes : Flask clamps, 250 mlX50 and 500 mlX30            Origin : USA/UK/EU/Japan, Taiwan/China/Equivalent</p>
4	<b>Single Channel Syringe Pump</b>	<p>Single Channel Syringe Pump for MS calibration, chemical reaction injection, electrospinning, infusion suitable for microfluidics/nanofluidics</p> <p>Volume : 0.01 mL – 60 mL            Applicable syringe : All brands of standard syringes: 5,10,20,30 and 50 (60) ml            Injection rate range : 5ml: 0.1ml/h —100ml/h 10ml:0.1 ml/h —200ml/h            20ml: 0.1ml/h— 400ml/h 30ml:0.1ml/h —600ml/h            Power supply : 220VAC, 50Hz            Origin : USA/UK/EU/Japan or equivalent</p>





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5	<b>pH Meter</b>	Desktop <b>pH meter</b> with following specifications: pH Range : -2.000 to +19.999 pH resolution : 0.001/0.01/0.1 pH accuracy : ± 0.003 pH calibration point : User selectable 1, 2 or 3 Automatic buffer recognition : 4.00, 7.00 and 10.00 (minimum 3 buffer) mV Range : ± 1999.9 mV mV resolution : 0.1/1 mV mV accuracy : ± 0.2 mv Temp. Range : -10 to 105°C Temp. resolution : 0.1°C Temp. accuracy : ± 0.5°C Output : Analogue and RS232 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
6	<b>Biomass Pulverizer</b>	Biomass Pulverizer (Blending machine,blendar/grinder) with following specification: Capacity : ≥ 1.5 L Motor type : ≥ 1000 W (100% Cu wound) Blade type : Stainless Steel No. of Jar : 4 Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/Taiwan/EU/Japan or equivalent

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