



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

Office of the Director

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

Tender Ref. No. CARS/ST/P-298/OTM/2022

Date: ২৩-১০-১৪২৮ বঙ্গাব্দ  
06-02-2022 খ্রিষ্টাব্দ

**Invitation for Tender (National)**

Sealed Tenders (P-298) 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-298/OTM/2022		
8.	Date :	06-02-2022 খ্রিষ্টাব্দ		
<b>KEY INFORMATION</b>				
9.	Procurement Method	Open Tendering Method		
<b>FUNDING INFORMATION</b>				
10.	Budget and Source of Funds	Revenue Budget (RB)		
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	06-02-2022 খ্রিষ্টাব্দ		
17.	Tender Last Selling Date	<b>27-02-2022 খ্রিষ্টাব্দ Up to office hours</b>		
18.	Tender Closing Date and Time	<b>Date :</b>		<b>Time:</b>
		28-02-2022 খ্রিষ্টাব্দ		11:00 am
19.	Tender Opening Date and Time	28-02-2022 খ্রিষ্টাব্দ		11:30 am
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>



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INFORMATION FOR TENDERER				
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 as mentioned in TDS (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) <b>Warranty: 2 years</b> from the date of installation. 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> 55,800	<b>90 days from the date of issuance a Purchase order</b>
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 <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  
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	
I. No.	Item name	Technical specifications			Pack size	Qty
1.	<b>Multi-Gas Detector system</b>	<b>Portable Multi-Gas Detector System</b> with following specifications: Measurement range : H <sub>2</sub> S:0-100 ppm SO <sub>2</sub> :0-20 ppm CH <sub>4</sub> : 0-100% LEL CO: 0-1000 ppm Resolution : H <sub>2</sub> S : 1 ppm NO <sub>2</sub> : 0.1 ppm SO <sub>2</sub> : 0.1 ppm CH <sub>4</sub> : 1% LEL CO : 1 ppm Sensor type : Electrochemical sensor/catalytic sensor (with temp. compensation) Responding Time : T90 < 30s Alarm : Visual, Sound, Vibration Ambient Environment : 10 °C ~ 50 °C Power supply : Li-ion Rechargeable battery Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent			No's	1
2.	<b>Bomb Calorimeter</b>	Stainless Steel Structured <b>Digital Oxygen Bomb Calorimeter</b> with following specifications:			No's	1

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		Heat Capacity : 14000~15000 J/K Temp Resolution : 0.001 K Thermal Error : ≤60J/g Temp Measurement Range : 10°C~35°C Repeatability Error : ≤0.2% Pressure Endured By Oxygen Bomb : 20 MPa Temperature fluctuation : ≤ 1 °C Power supply : AC 220V±5%, 50Hz (150W) Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent		
3.	<b>Desktop pH meter</b>	<b>Desktop 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	No's	1
4.	<b>Micro incinerator</b>	<b>Micro Incinerator</b> for sterilize metal inoculating loops and needles with following specifications: Max. Temp. : 800 °C Temp. Accuracy : ± 10 °C Chamber length : ≤ 5 inch Chamber diameter : ≤ 0.55 inch Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent	No's	1
5.	<b>Teflon Lined Stainless Steel Autoclave</b>	Temperature controlled <b>Teflon Lined Stainless Steel Autoclave</b> with following specifications: Capacity : 100 ml – 200 ml Setting pressure : 22Mpa Max. temperature : 350°C Stirring Torque : 120 N. cm Outer material : SS-304/316 Inner lining : Teflon Accessories : Digital display controller device, Lifting device easy to feed and	No's	1

		discharge Power supply : 220 VAC, 50 Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent		
6.	<b>Vacuum Pump for rotary Evaporator</b>	<b>Vacuum pump specifications:</b> Vacuum : 100 mbar Flow rate : 34 L/min Rotation : 1450 rpm Noise level : ≤ 60 dB Power supply : 220 V AC, 50 Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent	No's	1

**Warranty :** 2 years from the date of installation. Installation and training must be provided by the supplier (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
<b>Sl. No.</b>	<b>Item name</b>	<b>Technical specifications</b>
1.	<b>Multi-Gas Detector system</b>	<b>Portable Multi-Gas Detector System</b> with following specifications: Measurement range : H <sub>2</sub> S:0-100 ppm SO <sub>2</sub> :0-20 ppm CH <sub>4</sub> : 0-100% LEL CO: 0-1000 ppm Resolution : H <sub>2</sub> S : 1 ppm NO <sub>2</sub> : 0.1 ppm SO <sub>2</sub> : 0.1 ppm CH <sub>4</sub> : 1% LEL CO : 1 ppm Sensor type : Electrochemical sensor/catalytic sensor (with temp. compensation) Responding Time : T90 < 30s

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		Alarm : Visual, Sound, Vibration Ambient Environment : 10 °C ~ 50 °C Power supply : Li-ion Rechargeable battery Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
2.	<b>Bomb Calorimeter</b>	Stainless Steel Structured <b>Digital Oxygen Bomb Calorimeter</b> with following specifications: Heat Capacity : 14000~15000 J/K Temp Resolution : 0.001 K Thermal Error : ≤60J/g Temp Measurement Range : 10°C~35°C Repeatability Error : ≤0.2% Pressure Endured By Oxygen Bomb : 20 MPa Temperature fluctuation : ≤ 1 °C Power supply : AC 220V±5%, 50Hz (150W) Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
3.	<b>Desktop pH meter</b>	<b>Desktop 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
4.	<b>Micro incinerator</b>	<b>Micro Incinerator</b> for sterilize metal inoculating loops and needles with following specifications: Max. Temp. : 800 °C Temp. Accuracy : ± 10 °C Chamber length : ≤ 5 inch Chamber diameter : ≤ 0.55 inch Power supply : 220VAC, 50Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
5.	<b>Teflon Lined Stainless Steel</b>	Temperature controlled <b>Teflon Lined Stainless Steel Autoclave</b> with following specifications:



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	<b>Autoclave</b>	Capacity : 100 ml – 200 ml Setting pressure : 22Mpa Max. temperature : 350°C Stirring Torque : 120 N. cm Outer material : SS-304/316 Inner lining : Teflon Accessories : Digital display controller device, Lifting device easy to feed and discharge  Power supply : 220 VAC, 50 Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent
6.	<b>Vacuum Pump for rotary Evaporator</b>	<b>Vacuum pump specifications:</b> Vacuum : 100 mbar Flow rate : 34 L/min Rotation : 1450 rpm Noise level : ≤ 60 dB Power supply : 220 V AC, 50 Hz Warranty : 2 yrs Origin : USA/UK/EU/Japan or equivalent

**Warranty :** 2 years from the date of installation. Installation and training must be provided by the supplier (free of cost).