



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

**Invitation for Tender (National)**

Ref. No. CARS/ST/P-275/OTM/GEBRL & TCRL/RB/19-20

Date : ১১-০৫-১৪২৬ বঙ্গাব্দ  
26-08-2019 খ্রিষ্টাব্দ

Sealed Tenders are hereby invited from reputed supplier for Supply, Installation, Testing and Commissioning of Chemicals, Consumables and Equipment for Genetic Engineering and Bio-technology Research Laboratory (GEBRL) and Tissue Culture Research Laboratory (TCRL) 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 Chemicals, Consumables and Equipment for Genetic Engineering and Bio-technology Research Laboratory (GEBRL) and Tissue Culture Research Laboratory (TCRL)
7.	Invitation Ref No.	CARS/ST/P-275/OTM/GEBRL & TCRL/RB/19-20
8.	Date :	20-08-2019 খ্রিষ্টাব্দ
<b>KEY INFORMATION</b>		
9.	Procurement Method	Open Tendering Method
<b>FUNDING INFORMATION</b>		
10.	Budget and Source of Funds	Revenue Budget (RB) 2019-2020
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.	Lot Wise
15.	Tender Package Name	Supply, Installation, Testing and Commissioning of Chemicals, Consumables and Equipment for Genetic Engineering and Bio-technology Research Laboratory (GEBRL) and Tissue Culture Research Laboratory (TCRL)
16.	Tender Publication Date	20-08-2019 খ্রিষ্টাব্দ
17.	Tender Last Selling Date	<b>15-09-2019 খ্রিষ্টাব্দ Up to office hours</b>
18.	Tender Closing Date and Time	<b>Date :</b>
		<b>16-09-2019 খ্রিষ্টাব্দ</b>
19.	Tender Opening Date and Time	<b>Time:</b>
		<b>12:00 Noon</b>
		<b>12:30 pm</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.	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 field (v) Bank solvency Certificate (vi) Manufacturer Authorization letter for applicable lot. <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 and needed submission of team member's list with Biodata.			
23.	Brief Description of Goods	Supply, Installation, Testing and Commissioning of Chemicals, Consumables and Equipment for Genetic Engineering and Bio-technology Research Laboratory (GEBRL) and Tissue Culture Research Laboratory (TCRL)			
24.	Brief Description of Related Services	Supply, Installation, Testing and Commissioning of Chemicals, Consumables and Equipment for Genetic Engineering and Bio-technology Research Laboratory (GEBRL) and Tissue Culture Research Laboratory (TCRL)			
25.	Tender Document Price TK.-4,000.00	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>"Chemicals, Consumables and Equipment"</b>	CARS, DU.	<b>Lot- 1 : Chemicals</b>	<b>1,400.00</b>	90 days from the date of issuance a Purchase order
			<b>Lot- 2 : Consumables</b>	<b>8,000.00</b>	
			<b>Lot- 3 : Equipment</b>	<b>21,000.00</b>	
<b>PROCURING ENTITY DETAILS</b>					
27.	Name of Official Inviting Tender	Prof. Dr. Golam Mohammed Bhuiyan			
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 and/or decrease the quantity of Chemicals, Consumables and 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, lot no. 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.				

স্বাক্ষরিত/-

.....

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
<b>Lot -1 : Chemicals</b>					
01	Ethanol	2.5 L	05	<b>CARS, DU</b>	<b>90 days from the date of issuance a purchase order. 04</b>
02	Suffex	4 L	04		
03	DreamTaq Green DNA Polymerase (5 U/ $\mu$ L)	500/Units	01		
04	10mMdNTps	0.8 ml	01		
05	PCR Product Purification kit	100preps/pack	01		
06	Primer, 25nmol	127bp/ pack	01 pack		
<b>Lot -2 : Consumables</b>					
01	Micropipette (100-1000 $\mu$ l)	No's	02		
02	Micropipette (20-200 $\mu$ l)	No's	02		
03	Pipette Aid	No's	02		
04	96 well plate (sterile, individually packed, flat bottom, transparent)	200/pack	01 pack		
05	Petridish, sterile, plastic, size (90 mm)	No's	1,000		

06	Falcon tubes, Size : 50 ml, autoclavable	No's	300		
07	Blue tips (1000 µl)	1000/pack	02 pack		
08	Yellow tips (20-200 ul)	1000/pack	05 pack		
09	1.5 ml centrifuge tube	500/pack	04 pack		
10	Hand gloves (Latex free, powder free) medium size	100/pack	10 pack		
11	TPP 10 ml pipettes cell culture grade (individual packed)	01/pack	1000 pack		
12	Syringe filter 0.45µm (individually packed), 0.45m	No's	200		
<b>Lot-3 : Equipment</b>					
01	<p><b>Thermal Cycler ( PCR Machine) with temperature gradient.</b></p> <p><b>Key features:</b></p> <ul style="list-style-type: none"> <li>• Compact design—fits on every benchtop</li> <li>• Option to upgrade—get VeriFlex™ temperature control technology for PCR optimization when you move up to the Thermal Cycler</li> <li>• Cloud-enabled—conveniently access your instrument anytime, anywhere with Thermo Fisher Connect</li> </ul> <p><b>Technical Specification:</b></p> <p>Block Format: 96-well, 0.2 mL 3-zone VeriFlex™ Block Max. block ramp rate: 3.5°C/sec Max.</p> <p>sample ramp rate: 2.7°C/sec</p> <p>Temperature accuracy: ±0.25°C (35–99.9°C)</p> <p>Temperature range: 0–100.0°C</p> <p>Temperature uniformity: &lt;0.5°C (30 sec after reaching 95°C)</p> <p>Heat lid temperature 20°-110° C</p> <p>Temperature calibration: Calibrated to standards traceable to the National Institute of Standards and Technology</p> <p>Dimensions (H x W x D): 20 x 19 x 39 cm (7.9 x 7.5 x 15.4 in.)</p> <p>Weight: 5.9 kg (13.0 lb)</p> <p>PCR volume range: 10–100 µL</p> <p>Instrument memory: 2,000 MB onboard memory (capacity for &gt;1,000 protocols); USB port for additional external storage</p> <p>Display interface: 5-inch color TFT LCD</p> <p>Power: 100–240 V, 50–60 Hz, max. 500 W</p> <p>VeriFlex Blocks : 3 temperature zones, 20°C range (10°C zone-to-zone)</p> <p>Data connectivity: Cloud or mobile via Ethernet or WiFi</p>	No's	01		
02	<p><b>Centrifuge Machine</b></p> <p><b>Features:</b></p> <p>Powerful, compact and cold-room compatible. The Microfuge 16 reduces</p>	No's	01		

	<p>process time and adds flexibility to protocols.</p> <ul style="list-style-type: none"> <li>• Process samples at speeds up to 14,800 rpm (16,163 x g)</li> <li>• Shorten run times with fast acceleration and deceleration</li> <li>• Choose between the 12- or 24-place 1.5/2.0 mL tube rotor to best match your capacity needs</li> <li>• Peace of mind with a maintenance-free motor and safety auto-lock closure system</li> </ul> <p><b>Specifications:</b>  Maximum Speed: 14.800 rpm (in 100 rpm increments) , Maximum RCF: 16,163 x g  Maximum Capacity: 24 x 1.5/2.0 mL  Run Time: 99 min, 59 sec, continuous run, short run  Noise Level at Max. Speed: &lt; 60 dBa  Ambient Temperature Range: 4° to 40°C  Maximum Heat Dissipation into Room: 324 Btu/h (90 W),  Dimensions (in): 8.9W x 10.5D x 6.9H  Dimensions (cm): 22.6W x 26.6D x 17.6H  Weight: 6.4 kg (14 lb)  Electrical Requirements: 100–120 VAC, 50/60 Hz 220–240 VAC, 50/60 Hz  Rotor: 24 x 1.5/2.0 mL (FX241.5P) fixed-angle polypropylene rotor with snap-on lid</p>				
03	<p><b>Digital dry Bath/Block Heater</b>  <b>Technical Specification:</b>  Number of blocks: 1  Heat output: 165 W  Temperature Control Range: RT+5°C 105°C  Stability at 100°C: ±0.4°C  Heating Time (25°C to 100°C) ≤15min  Temperature display: Yes  Display accuracy/Display: 0.1°C/LED  Timing range: 1 – 99h59 min  Weight: 2.5 kg  Accessories:  1) Dry Block for 1.5 mLx20 —1 Pc  2) Dry Block for 15 mLx12—1 Pc</p>	No's	01		
04	<p><b>VORTEX 4 Digital Orbital Shaker</b>  <b>Specification:</b>  Wide range of attachments Attachment detection Continuous or touch operation (with standard attachment) Two operating modes: Mode A (safe mode with attachment detection) the maximum speed of 3.000 rpm is only reached with the standard attachment in touch mode. When using other attachments the speed is limited to 1.300 rpm. Mode B (without attachment detection) a speed of 3000 rpm is possible</p>	No's	01		

	<p>with all attachments, depending on the application (see the speed range of the accessory list)</p> <ul style="list-style-type: none"> <li>- Stable in all speed ranges</li> <li>- Sturdy zinc die cast casing</li> </ul> <p><b>Technical Data</b></p> <p>Type of movement: orbital  Shaker diameter [mm]: 4.5  Permissible shaking weight (incl. attachment) [kg]: 0.5  Motor rating input [W]: 10  Motor rating output [W]: 8  Permissible ON time [%]: 100  Speed min (adjustable) [rpm]: 200  Speed range [rpm]: 0-3000  Speed display: scale  Operating mode: continuous operation  Touch function: yes  Working with microtiter plates: yes  Number of microtiter plates: 1  Permissible ambient temperature [°C]: 5-40  Permissible relative humidity [%]: 80</p> <p><b>Accessories : (1 no's)</b></p> <p>MS 3.4 Microtiter attachment: For use with a microtiter plate, included with the minishakers MS 3 basic.</p>				
--	---	--	--	--	--

**Country of Origin :** USA/UK/EU/Germany/Japan/Australia/Canada/Equivalent.

24 Months from the date of installation for the equipment and delivery of scientific consumables.  
N.B : Expiry date is needed at least 12 months from the date of delivery.