



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

**Invitation for Tender (National)**

Ref No. CARS/ST/P-278/OTM/MSRL/RB/19-20

Date : ১৪-০৪-১৪২৬বঙ্গাব্দ  
29-07-2019 খ্রিষ্টাব্দ

Sealed Tenders are hereby invited from reputed supplier for Supply, Installation, Testing and Commissioning of Chemicals, Consumables & Glassware and Equipment for Materials Science Research Laboratory (MSRL) 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 & Glassware and Equipment for Materials Science Research Laboratory (MSRL)	
7.	Invitation Ref No.	CARS/ST/P-278/OTM/MSRL/RB/19-20	
8.	Date :	29-07-2019 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 & Glassware and Equipment for Materials Science Research Laboratory (MSRL)	
16.	Tender Publication Date	29-07-2019 খ্রিষ্টাব্দ	
17.	Tender Last Selling Date	<b>19-08-2019 খ্রিষ্টাব্দ Up to office hours</b>	
18.	Tender Closing Date and Time	Date :	Time:
		<b>20-08-2019 খ্রিষ্টাব্দ</b>	<b>12:00 Noon</b>
19.	Tender Opening Date and Time	<b>20-08-2019 খ্রিষ্টাব্দ</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 & Glassware and Equipment for Materials Science Research Laboratory (MSRL)			
24.	Brief Description of Related Services	Supply, Installation, Testing and Commissioning of Chemicals, Consumables & Glassware and Equipment for Materials Science Research Laboratory (MSRL)			
25.	Tender Document Price TK.-3,000.00	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 &amp; Glassware and Equipment"</b>	CARS, DU.	<b>Lot- 1 : Chemicals</b>	<b>3,300.00</b>	90 days from the date of issuance a Purchase order
			<b>Lot- 2 : Consumables &amp; Glassware</b>	<b>3,500.00</b>	
			<b>Lot- 3 : Equipment</b>	<b>17,000.00</b>	
<b>PROCURING ENTITY DETAILS</b>					
27.	Name of Official Inviting Tender	Dr. Tofail Ahmed Chowdhury			
28.	Designation of Official Inviting Tender	Director (Acting)			
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 & Glassware 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.				

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Director (Acting)

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	Methanol (HPLC grade)	2.5 L	01	<b>CARS, DU</b>	<b>90 days from the date of issuance a purchase order. 04</b>		
02	Absolute Ethanol (HPLC grade)	2.5 L	01				
03	Acetone	1000ml	10				
04	2-Propanol	2.5 L	01				
05	Sodium Hydroxide Pellete	500 g	01				
06	Ammonium Acetate	250 g	01				
07	Phosphoric acid	1 L	01				
08	DMSO	500ml	01				
09	DMF	500ml	01				
<b>Lot -2 : Consumables &amp; Glassware</b>							
01	Test tube, Size: 25ml	No's	25				
02	Test tube, Size: 50ml	No's	25				
03	Volumetric Flask, Size: 10ml	No's	05				
04	Volumetric Flask , Size: 25ml	No's	05				
05	Volumetric Flask , Size: 50ml	No's	05				

06	Volumetric Flask , Size: 100ml	No's	05
07	Beaker , Size: 50ml	No's	10
08	Beaker , Size: 100ml	No's	10
09	Beaker , Size: 25ml	No's	05
10	Beaker, Size: 250ml	No's	02
11	Glass Pipette, Size: 5ml	No's	03
12	Glass Pipette Size: 10 ml	No's	03
13	Glass Pipette Size: 25ml	No's	03
14	Glass Pipette, Size: 50ml	No's	03
15	Graduate glass pipette, Size: 2ml	No's	02
16	Graduate glass pipette, Size: 5ml	No's	02
17	Graduate glass pipette, Size:10ml	No's	02
18	Pipette Filler	No's	05
19	Tube for Polarimeter	No's	01
<b>Lot-3 : Equipment</b>			
01	<b>Vortex Mixer</b> Specification: <ul style="list-style-type: none"> <li>• Speed: 200 to 3200 rpm</li> <li>• Operating modes: Touch or continuous</li> <li>• Operating Temp. Range: +4 to +45°C</li> <li>• Dimensions: (w x d x h) 5 x 6.3 x 6.7 in. / 13 x 16 x 17 cm</li> <li>• Weight: 8.4 lbs (3.8 kg)</li> <li>• Electrical: 115V, 60Hz or 230V, 50Hz, 180W</li> </ul>	No's	01
02	<b>Laboratory muffle furnace</b> Specification: Inner dimensions (wxdxh): 200 x 170 x 130 mm / 178x 305 x 125mm Outer dimensions (WxDxH): 385 x 390 x 460 mm / 420 x 490 x 495 mm Volume: 5 - 6liter Weight: 30 - 33kg Power rating: 2,4 kW Supply voltage: 230 V, 1/N/PE, 50/60 Hz Max. operating temperature: 1100 °C Heat-up time (without load): 60 min. to Tmax	No's	01
03	<b>pH meter</b> Specification: pH/ISE/Conductivity/RDO/ Dissolved Oxygen Ultimate Benchtop Multiparameter Meter Set pH Range -2.000 to 20.000 Resolution 0.1, 0.01, 0.001 Relative Accuracy ±0.002 Calibration Points Up to 6 with Calibration Editing solution kit (500 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) conductivity standard, 1413 µS, 5x60 mL Two electrode arms redesigned holders Universal power adapter	No's	01
04	<b>Rotary Evaporator</b> <b>Specification:</b> Rotating Flask (L) 2 L. Collecting Flask (L) 1 L.	No's	01

	Vacuum(Mpa)	-0.098			
	Stirring Speed (RPM)	0-120			
	Temperature Range	Room~99°C			
	Stirring Power(W)	40			
	Bath Power(KW)	1.5			
	Tem.Accuracy	±1°C			
	Supply Voltage(V)	220V/50Hz			
	Size (L*W*HMM)	650*450*720			
	Strong & Durable Stainless Steel Structure and Rotational Rod				
	High Borosilicate flask with uniform thickness (6-8mm)				
	Double Coil pipe Condenser				
	PTFE sealing Valve without dead corner				
	Intelligent Digital Temperature Controller				
	AC induction motor				
	The motor is low noise, adjustable speed of frequency converter				
05	Temperature Humidity Meter		No's	03	

**Warranty** : 24 Months from the date of delivery for the equipment and scientific consumables.

**N.B** : Expiry date is needed at least 12 months from the date of delivery for chemicals.

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

## 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>Lot -1 : Chemicals</b>		
01	Methanol (HPLC grade)	
02	Absolute Ethanol (HPLC grade)	
03	Acetone	
04	2-Propanol	
05	Sodium Hydroxide Pellete	
06	Ammonium Acetate	
07	Phosphoric acid	
08	DMSO	

09	DMF
<b>Lot -2 : Consumables &amp; Glassware</b>	
01	Test tube, Size: 25ml
02	Test tube, Size: 50ml
03	Volumetric Flask, Size: 10ml
04	Volumetric Flask , Size: 25ml
05	Volumetric Flask , Size: 50ml
06	Volumetric Flask , Size: 100ml
07	Beaker , Size: 50ml
08	Beaker , Size: 100ml
09	Beaker , Size: 25ml
10	Beaker, Size: 250ml
11	Glass Pipette, Size: 5ml
12	Glass Pipette Size: 10 ml
13	Glass Pipette Size: 25ml
14	Glass Pipette, Size: 50ml
15	Graduate glass pipette, Size: 2ml
16	Graduate glass pipette, Size: 5ml
17	Graduate glass pipette, Size:10ml
18	Pipette Filler
19	Tube for Polarimeter
<b>Lot-3 : Equipment</b>	
01	<p><b>Vortex Mixer</b> Specification:</p> <ul style="list-style-type: none"> <li>• Speed: 200 to 3200 rpm</li> <li>• Operating modes: Touch or continuous</li> <li>• Operating Temp. Range: +4 to +45°C</li> <li>• Dimensions: (w x d x h) 5 x 6.3 x 6.7 in. / 13 x 16 x 17 cm</li> <li>• Weight: 8.4 lbs (3.8 kg)</li> <li>• Electrical: 115V, 60Hz or 230V, 50Hz, 180W</li> </ul>
02	<p><b>Laboratory muffle furnace</b> Specification:</p> <p>Inner dimensions (wxdxh): 200 x 170 x 130 mm / 178x 305 x 125mm</p> <p>Outer dimensions (WxDxH): 385 x 390 x 460 mm / 420 x 490 x 495 mm</p> <p>Volume: 5 - 6liter</p> <p>Weight: 30 - 33kg</p> <p>Power rating: 2,4 kW Supply voltage: 230 V, 1/N/PE, 50/60 Hz</p> <p>Max. operating temperature: 1100 °C</p> <p>Heat-up time (without load): 60 min. to Tmax</p>
03	<p><b>pH meter</b> Specification:</p> <p>pH/ISE/Conductivity/RDO/ Dissolved Oxygen Ultimate Benchtop Multiparameter Meter Set</p> <p>pH Range -2.000 to 20.000</p> <p>Resolution 0.1, 0.01, 0.001</p> <p>Relative Accuracy ±0.002</p> <p>Calibration Points Up to 6 with Calibration Editing</p> <p>solution kit (500 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)</p> <p>conductivity standard, 1413 µS, 5x60 mL</p> <p>Two electrode arms redesigned holders</p> <p>Universal power adapter</p>

04	<p><b>Rotary Evaporator</b></p> <p><b>Specification:</b></p> <p>Rotating Flask (L)                                    2 L.</p> <p>Collecting Flask (L)                                    1 L.</p> <p>Vacuum(Mpa)    -0.098</p> <p>Stirring Speed (RPM)                                    0-120</p> <p>Temperature Range                                        Room~99°C</p> <p>Stirring Power(W)                                        40</p> <p>Bath Power(KW)    1.5</p> <p>Tem.Accuracy     ±1°C</p> <p>Supply Voltage(V)                                        220V/50Hz</p> <p>Size (L*W*HMM)                                        650*450*720</p> <p>Strong &amp; Durable Stainless Steel Structure and Rotational Rod</p> <p>High Borosilicate flask with uniform thickness (6-8mm)</p> <p>Double Coil pipe Condenser</p> <p>PTFE sealing Valve without dead corner</p> <p>Intelligent Digital Temperature Controller</p> <p>AC induction motor</p> <p>The motor is low noise, adjustable speed of frequency converter</p>	
05	Temperature Humidity Meter	