

## Tender Notice for Material Science Research Laboratory



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

### Invitation for Tender (National)

Ref No.CARS/P/ST/207/209/RB/OTM-5/MSRL/DARL/2016 Date: 17-05-16

Sealed Tenders are hereby invited from reputed supplier for the Supply, Installation, Testing and Commissioning of “ Accessories, Reagent and Solvents, Glassware, Equipment and Computer” for Material Science Research Laboratory at the CARS.

1.	Ministry/Division	Ministry of Education	
2.	Agency	University of Dhaka	
3.	Procuring Entity Name	Centre for Advanced Research in Sciences, University of Dhaka.	
4.	Procuring Entity Code	Not used	
5.	Procuring Entity District	Dhaka	
6.	Invitation for	Goods	
7.	Invitation Ref No.	Ref No.CARS/P/ST/207/209/RB/OTM-5/MSRL/DARL/2016 Date: 17-05-16.	
8.	Date	17-05-16.	
<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)		
<b>PARTICULAR INFORMATION</b>			
12.	Project/Programme Code (if applicable)	Not used	
13.	Project/Programme Name (if applicable)	Not Applicable	
14.	Tender Package No.	As mentioned in clause 26	
15.	Tender Package Name	Supply, Installation, Testing and Commissioning of “ Accessories, Reagent and Solvents, Glassware, Equipment and Computer” for Material Science Research Laboratory at the CARS.	
16.	Tender Publication Date	17/05/2016	
17.	Tender Last Selling Date	12/06/2016 up to office hours	
18.	Tender Closing Date and Time	<b>Date:</b>	<b>Time:</b>
		13/06/2016	12:00 Noon
19.	Tender Opening Date and Time	13/06/2016	12:30 pm
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, University of Dhaka.	
	-Receiving Tender Document	(i) Centre for Advanced Research in Sciences, University of Dhaka.	
	-Opening Tender Document	Centre for Advanced Research in Sciences, 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) VAT Registration Certificate (iii) Up to date Income Tax Clearance Certificate (iv) Experience Certificate in similar supply works of comparable value in a single tender in last five years as mentioned in TDS (v) Bank solvency Certificate as mentioned in TDS (vi) Competency certificate of after sale service as mentioned in the TDS (vii) Manufacturer Authorization for suitable Lot or Item only.	
23.	Brief Description of Goods	Supply, Installation, Testing and Commissioning of “ Accessories, Reagent and Solvents, Glassware, Equipment and Computer” for Material Science Research Laboratory at the CARS.	
24.	Brief Description of Related Services	<b>Supply, Installation, Testing and Commissioning.</b>	

25.	Tender Document Price -1,500.00	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>
	Supply, Installation, Testing and Commissioning of “ Accessories, Reagent and Solvents, Glassware, Equipment and Computer”	CARS, DU.	<b>Lot-1:Accessories-TK. 2,500.00.</b> <b>Lot-2:Reagent and Solvents:TK.6,300.00.</b> <b>Lot-3:Glassware: TK.1,400.00.</b> <b>Lot-4:Equipment: TK. 3,400.00.</b> <b>Lot-5: Computer: TK.1,450.00.</b>	90 days from the date of issuance of Purchase order.
<b>PROCURING ENTITY DETAILS</b>				
27.	Name of Official Inviting Tender	Prof. Dr. Altaf Hussain		
28.	Designation of Official Inviting Tender	Director		
29.	Address of Official Inviting Tender	Centre for Advanced Research in Sciences, University of Dhaka.		
30.	Contact details of Official Inviting Tender	9661900/Ext. 4616/ 4636/4639.		
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 any Lot/item/items from the Tender. The suppliers must abide by the decision of the University authority. Tender form, schedule of items 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 lot and the name of their 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.			

**Director**

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

# Schedule of Requirements for Material Science Research Laboratory.

Invitation for Tender No:

Date

Tender Package No:

## A. List of Goods & Related services and Delivery Schedule

### Lot-01: Accessories.

*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.*

Item No.	Description of Item	Unit of Measurement	Quantity	Point of Delivery	Delivery Period Required
1	2	3	4	5	6
01	Fluorine doped tin oxide coated glass slide L × W × D 50 mm × 50 mm × 3 mm, <b>surface resistivity:</b> ~8 Ω/sq Synonym: FTO glass packaging: set of 5 surface resistivity: ~8 Ω/sq L×W×D: 50 mm × 50 mm × 3 mm; transmittance: 80-81.5% (visible)		01 set	CARS, DU	90 days from the date of issuance a purchase order.
02	Porcelain crucible High form, capacity 25 / 50 mL material porcelain capacity 25 / 50 mL  description: Glazed inside and out, except for outside bottom surface and rim. • Max. use temp.: 1150°C; limit of use evacuated: 1300°C • Crucibles are not porous so there should not be any change in weight after firing		01		
03	Coors high-alumina crucible: High form, capacity 20 mL H: 35 mm top diam.: 38 mm description: Made of 99.8% pure, recrystallized aluminum oxide for high resistance to chemical attack. For use in reducing and oxidizing		01		

	atmospheres and refractory metals (such as molybdenum, platinum, rhodium, tungsten, tantalum, and iridium). O.D. dimension tolerance is +/-5%. Max. use temp. (no load): 1,750 °C.				
04	<p><b>Ultrasonic Bath</b> (for SEM) 40KHz/60KHz or other special frequency two steps of conversion, is more suitable for different purposes;</p> <p>40KHz ultrasonic frequencies can provide <b>strong power</b>;</p> <p>60KHz reflect the low noise and fine cleaning;</p> <p>The degassing effect of the regulatory function is particularly suitable for the different viscosity of the solvent degassing;</p> <p>Fringe grid and noise reduction cover.</p> <p><b>Dimensions (mm):</b> 320W x 270L x 290H  <b>Slot dimensions (mm):</b> 300W x 250L x 150D  <b>Volume (L):</b> 6  Power (W): 180  Power adjustment (%): 50/100 two tranches  Ultrasonic frequency (KHz): 40  Degassing adjustment: no  Timing (min,) :5-30 or continuous  Bleeder:  Dimensions (mm): 320W x 175L x 290H  Slot dimensions (mm): 300W x 150L x 150D  Volume (L): 6 L  Power (W): 180  Power adjustment (%): 30 to 100  Ultrasonic frequency (KHz): 40 (AS5150A)  Ultrasonic frequency (KHz): 40/60 dual-band (AS5150AD) Degassing adjustment:  Timing (min,) :1-18 or continuous  Bleeder:"&gt;</p> <p>Warranty: 36 months.</p>		01		
05	Quartz mortar and pestle capacity : 30 ml (No alternative will be accepted. mortar and pestle will made of Quartz)		1+1		
<b>Lot-2: Reagents and Solvents.</b>					

01	Methanol CHROMASOLV®, gradient grade, for HPLC, ≥99.9%	2.5 L	02		
02	Ethanol (HPLC grade)	2.5 L	02		
03	2-Propanol for HPLC, 99.9% Synonym: IPA, Isopropyl alcohol	2.5 L	02		
04	Oxalic acid 98%	250 G	01		
05	Titanium (IV) oxide, ar grade ( Titanium white)	500 g	01		
06	Bismuth(III) nitrate pentahydrate reagent grade, 98% CAS Number 10035-06-0	100 G	01		
07	Triton™ X-100 laboratory grade	500 ML	01		
08	Docusate sodium salt purum, ≥96.0% (TLC) Synonym: Sodium bis(2-ethylhexyl) sulfosuccinate,	100 G	02		
09	Tungsten(VI) chloride ≥99.9% trace metals basis Synonym: Tungsten hexachloride	100 G	01		
10	Ammonium solution	2.5 L	01		
11	Aluminum chloride reagent grade, 98%	100 G	01		
12	Hydrogen Peroxide	500 ML	02		
13	Poly(vinyl alcohol) 87-90% hydrolyzed, average mol wt 30,000-70,000	250 G	01		
14	Rubidium nitrate/carbonate/oxalate 99.7% trace metals basis Linear Formula RbNO3	50 G	01		
15	Dimethyl sulfoxide ReagentPlus®, ≥99.5% Synonym: DMSO	1 L	02		
16	N,N-Dimethylformamide puriss. p.a., ACS reagent, reag. Ph. Eur., ≥99.8% (GC) Synonym: DMF	2.5 L	01		
<b>Lot-3: Glass Ware.</b>					
01	Porcelain Basin; Dia: 60 MM	no's	2		
02	<b>Beakers,</b> Borosilicate glass, Graduated, Low Form, High resistance to chemical attack,	50 ML	5		

	Double graduation metric scale for convenience. Approx O.D x Height: (42X60) mm.				
03	<b>Beakers,</b> Borosilicate glass, Graduated, Low Form, High resistance to chemical attack, Double graduation metric scale for convenience. Approx O.D x Height: (50X70) mm.	100 ML	5		
04	<b>Beakers,</b> Borosilicate glass, Graduated, Low Form, High resistance to chemical attack, Double graduation metric scale for convenience. Approx O.D x Height: (70X95) mm.	250 ML	5		
05	<b>Volumetric Flasks ,</b> With Interchangeable Plastic Stopper, Accuracy As per Class A, Calibrated at 20 ° C, Tolerance (± ): 0.04ml Stoper Size: 10/19 With individual calibration certificate.	25 ML	10		
06	<b>Volumetric Flasks ,</b> With Interchangeable Plastic Stopper, Accuracy As per Class A, Calibrated at 20 ° C, Tolerance (± ): 0.06ml Stoper Size: 12/21 With individual calibration certificate.	50 ML	10		
07	<b>Volumetric Flasks ,</b> With Interchangeable Plastic Stopper, Accuracy As per Class A, Calibrated at 20 ° C, Tolerance (± ): 0.10ml Stoper Size: 14/23 With individual calibration certificate.	100 ML	5		
08	<b>Volumetric Flasks ,</b> With Interchangeable Plastic Stopper, Accuracy As per Class A, Calibrated at 20 ° C, <b>Tolerance (± ): 0.15ml</b> Stoper Size: 14/23 With individual calibration certificate.	250 ML	5		
09	<b>Burettes</b> Boroflo, Fitted with Boroflo GP ( General Purpose), Screw Thread Stopcock with PTFE Keys, Accuracy as per Class A, Graduation Interval: 0.1ml Tolerance (± ): 0.05ml With individual calibration certificate.	50 ML	2		
10	<b>Pipettes,</b> Borosilicate glass, Graduated, Measuring (Mohr Type), Class A, Graduation Interval: 0.1ml Tolerance (± ): 0.007ml	1 ML	5		

	With individual calibration certificate.				
11	<b>Pipettes :</b> Silicate glass, Graduated, Measuring (Mohr Type), Class A, Graduation Interval: 0.05ml Tolerance (± ): 0.03ml With individual calibration certificate.	5 ML	5		
12	<b>Pipettes :</b> Silicate glass, Graduated, Measuring (Mohr Type), Class A, Graduation Interval: 0.1ml Tolerance (± ): 0.05ml With individual calibration certificate.	10 ML	5		
13	<b>Pipettes :</b> Silicate glass, Graduated, Measuring (Mohr Type), Class A, Graduation Interval: 0.2ml Tolerance (± ): 0.1ml With individual calibration certificate.	25 ML	5		
<b>Lot-4: Equipment</b>					
01	<b>Bench Top Centrifuge</b> Model : Maximum Speed : 5.000 rpm Maximum RFC : 2.822 ×g Maximum Capacity:12 × 15 ml Control System : Programmable Microprocessor Control System Speed Set Range : 1.000-5.000 rpm Speed Set Step : 10 rpm Timer Set Range : 1-99 min and hold position Timer Set Step : 1 minute Power Supply : 230 V , 50/60 Hz Net/ Gross Weight, kg : 12/15 Overall Dimensions (WxDxH) mm : 274 x 355 x251 Packing Dimensions (WxDxH) mm : 350 x 420 x 460 <b>ROTOR : Angle</b> Capacity : 12 x 15 ml Max. Tube Dia. (mm) : 17 Radius (mm) : 101 Max. Speed: 5.000 rpm Max. RCF: 2.822xg <b>ADAPTOR :</b> Tube Type : 5ml,7ml vacuumed / Non vacuumed tubes Max. Tubes Dia. : 13 Warranty: 36 months.	No's	01		

<b>Lot- 5: Computer</b>				
01	Description: <b>Brand: Any reputed brand pc.</b> Intel(R) Core i5 – 4590, 4 <sup>th</sup> Gen Processor. (6MB Cache, 3.30 GHz) Intel 81 Chipset Motherboard. 4GB DDR3 1600 Mhz. 500GB 7200 RPM SATA. SATA 16X Super Multi DVD. USB Keyboard. USB Optical Mouse. 18.5” LED Backlit LCD Wide Screen. Onboard Gigabit LAN, Sound, AGP. Warranty: 36 months.	No's	01	

**Country of Origin: Japan, USA, UK, EU, Canada and Equivalent.**