



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

Invitation for Tender

Date:01 -03-16

Ref No. CARS/ST/P-199/RB/OTM-1/march/2016.

Sealed Tenders are hereby invited from reputed supplier for the Supply, Installation, Testing and Commissioning of Consumables, Chemicals and Equipment for PPR, A &E and TCL Laboratories 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/ST/P-199/RB/OTM-1/march/2016.	
8.	Date	01/03/2016	
KEY INFORMATION			
9.	Procurement Method	Open Tendering Method	
FUNDING INFORMATION			
10.	Budget and Source of Funds	Revenue Budget (RB)	
11.	Development Partner (if applicable)		
PARTICULAR INFORMATION			
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 Consumables, Chemicals and Equipment for PPR, A &E and TCL Laboratories.	
16.	Tender Publication Date	01/03/2016	
17.	Tender Last Selling Date	14/03/2016 up to office hours	
18.	Tender Closing Date and Time	Date: 15/03/2016	Time: 12:00 Noon
19.	Tender Opening Date and Time	15/03/2016	12:30 pm
20.	Name & Address of the Office(s)	Address(s)	
	-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	Name/Address -	Date: - Time -
INFORMATION FOR TENDERER			
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 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 the suitable Lot or Goods.	
23.	Brief Description of Goods	Supply, Installation, Testing and Commissioning of Consumables, Chemicals and Equipment for PPR, A &E and TCL Laboratories at the CARS .	
24.	Brief Description of Related Services	Installation & Commissioning	
25.	Tender Document Price -2,250.00	The Price of Tender Schedule as mentioned is to be deposited in A/C No. 36000392 - Janata Bank, T.S.C branch, Dhaka University . 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.	Identification/Name of Equipment	Location	Tender Security Amount in Taka	Completion Time
	Lot-1- Consumables for A & E	Centre for Advanced Research in Sciences (CARS), University of Dhaka.	1,100.00	90 days from the date of issuance of Purchase order.
	Lot-2-Consumables for PPR		1,500.00	
	Lot-3- Consumables for TCL		2,500.00	
	Lot-4-Chemicals for A & E		1,900.00	
	Lot-5- Chemicals for PPR		4,200.00	
	Lot-6- Reagents for PPR		2,700.00	
	Lot-7- Chemicals for TCL		2,100.00	
	Lot-8- Equipment for PPR		4,250.00	
PROCURING ENTITY DETAILS				
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.		
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 item/items from the Tender. The bidders 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 bidders should write the name of the lot and the name of their firm on the envelope clearly. 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..

Section 6. Schedule of Requirements

Invitation for Tender No:
Tender Package No:

Date

A. List of Goods & Related services and Delivery Schedule

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 (from date of contract signature in weeks)
1	2	3	4	5	6
Lot No : <u>Lot -01: Consumables</u> for Analytical & Environmental Chemistry Laboratory.					
01	1000µl Blue Tips: Certifications/Compliance : RNase, DNasefree Autoclavable : Yes	1000Pcs /pk	04	CARS DU	90 days from the date of issuance PO.
02	200µl Clear Tips: Certifications/Compliance : RNase, DNasefree Autoclavable : Yes	1000Pcs /pk	03		
03	Porceline Crucible, volume:30 ml.	no's	06		
04	Weiging Paper	roll	01		
05	Disposable Syringe (5 ml)	no's	500		
06	0.45 µm nylon membrane filter, size: 47 mm.	100/box	01		
07	Graduated Cylinder, 10 ml.	no's	01		
08	Graduated Cylinder, 25 ml.	no's	01		
09	Graduated Cylinder, 250 ml.	no's	01		
10	Reagent bottle, 1 L	no's	01		
11	Beaker , 150 ml	no,s	02		
12	Beaker , 250 ml	no,s	04		

13	Whiteman filter paper,	100/box	05		
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Lot-02-Consumables for Pilot Plant Research Laboratory

01	Rubber Ring For Auto Clave (LTE-Serial Number-K11614)		01		
02	1000µl Tips Specification: Non-graduated pipet tip is designed to fit a wide variety of single-channel and multichannel pipettors Volume: 1000µL Color: Blue; Type: Beveled Non-sterile Certified RNase, DNase, and endotoxin free	1000 Tips/pack	04		
03	200µl Tips Specification: Non-graduated pipet tip is designed to fit a wide variety of single-channel and multichannel pipettors Volume: 200µL Color: Clear Type: Beveled Non-sterile Certified RNase, DNase, and endotoxin free	1000 Tips/pack	02		
04	DERMAGRIP Nitrile Examination Gloves Medium Specification: Formulated with 100% nitrile (Acrylonitrilebutadiene), #Made from Natural Rubber #Tested with an HPLC test using water extraction method	50/pack	05		
05	Mask Disposable	50/box	05 box		
06	Duran Bottle 500ml, blue PP screw cap and pouring ring Specification: Feature : Graduated Capacity : 500 mL Diam. × H : 86 mm × 181 mm Fitting : Neck thread GL 45	No's	10		
07	Duran Bottle 100ml, blue PP screw cap and pouring ring Specification: Feature : Graduated Capacity : 100 mL Diam. × H : 56 mm × 105 mm Fitting : Neck thread GL 45	No's	10		
08	Conical Flask 1000ml Specification: Capacity : 1000ml Material: Borosilicate glass code 7740 Flask Style: Erlenmeyer Neck Style: Narrow Mouth Top Style: Heavy Duty Rim	No's	05		

	<p>Rubber Stopper No.: 9 Height: 216mm Outer Dimension: 129mm Graduation Range: 250 - 1000mL Graduation Interval: 50mL Autoclavable : Yes Upper Extreme Temp: 490°C (914°F) Upper Working Temp: 230°C (446°F) Lower Working Temp: -230°C (-382°F) Max. Thermal Shock: 160°C (320°F)</p>				
09	<p>Conical Flask 500ml Specification: Capacity: 500ml Material: Borosilicate glass code 7740 Flask Style: Erlenmeyer Neck Style: Narrow Mouth Top Style: Heavy Duty Rim Rubber Stopper No.: 7 Height: 176mm Outer Dimension: 101mm Graduation Range: 100 - 500mL Graduation Interval: 50mL Autoclavable : Yes Upper Extreme Temp: 490°C (914°F) Upper Working Temp: 230°C (446°F) Lower Working Temp: -230°C (-382°F) Max. Thermal Shock: 160°C (320°F)</p>	No's	05		
10	<p>Screw Cap Test Tube 20ml Specification : Product Type: Culture Tubes Cap : Deep-form Phenolic cap Dimensions (OD (mm)): 16 Dimensions (L (mm)): 150 Capacity (mL): 20 Closure Size: 15-415 G.P.I. thread finish End type: Flat Autoclavable: Yes Material : Glass</p>	144/pack	50		
11	<p>50ml Falcon Tube Specification: ▪ Non – pyrogenic ▪ Non – cytotoxic ▪ DNase / RNase – free ▪ Human DNA – free</p>	25pcs/pk	50		
12	<p>15ml Falcon Tube Specification: ▪ Non – pyrogenic ▪ Non – cytotoxic ▪ DNase / RNase – free ▪ Human DNA – free</p>	50 Pcs/pk	50		
13	1 Drum Vail 5ml	No's	50		
14	Glass Pipette 1ml, 2ml,5ml	No's	02		
15	Para film	no's	01		

Lot-3- Consumables for Cell and Tissue Culture Laboratory.

01	Cell Scraper (Individually Peaked)	100pcs/pk	01		
02	Culture Flask with filter (25 cm ²)	200pcs/pk	01		
03	Falcon tube 50 ml (autoclaveable)	25pcs/pk	04		
04	Syring Filter 0.45 µm individually pack	50pcs/pk	02		
05	Serological pipette 10 ml individually pack	100/pk	10		
06	Antibiotic disc- Rifampicin or Nalidixic Acid	1 box	02		
07	Whatman No. 1 Filter paper	1 box	1		
08	Glass Spreader	01/pcs	04		
09	Niddle / Loop stick for Bacterial study	3 niddle + 3 loop/pk	06		
10	Beaker (250 ml)	No's	03		
11	Beaker (500 ml)	No's	03		
12	Conical flask (500 ml)	No's	03		
13	1000 µl tip box	No's	08		
14	200 µl tip box	No's	08		
15	Rack for 50 ml/1.5 ml/eppendorf tubes	3+2	05		
16	Mortal pestal	No's	02		

Lot -04 : Chemicals for Analytical & Environmental Chemistry Laboratory.

01	Nitric Acid, 65%.	2.5 L	02		
02	Acetone, HPLC grade.	3 L	01		
03	Glycerol	1 L	01		
04	Isopropyl Alcohol	3 L	01		
05	Methanol (HPLC grade).	2.5 L	02		
06	Acetonitrile , HPLC grade.	2.5 L	03		
07	Ortho-phosphoric acid	500ml	01		
08	Metaphosphoric acid	500gm	01		
09	Potassium dihydrogen phosphate	100gm	01		
10	L-Ascorbic Acid (HPLC Grade).	100gm	01		

Lot-05: Chemicals for Pilot Plant Research Laboratory.

01	Tryptic Soya Agar Specifications: Medium for the growth of a wide variety of microorganisms.	500 g	04		
02	Tryptic Soya Broth Specification: Broth for the growth of a wide variety of microorganisms.	500 g	02		
03	Potato Dextrose Agar Specifications: Medium for yeasts and moulds enumeration in	500 g	02		

	food and dairy products				
04	Potato Dextrose Broth Specifications: Broth for yeasts and moulds enumeration in food and dairy products.	500 g	02		
05	Agar, Bacteriological Specifications: Purified Agar for culture media preparation.	100 g	01		
06	3,5-Dinitrosalicylic Acid Specification: Appearance: Nearly white - pale yellowish brown, crystalline powder - powder or mass Contents: 98.0+% (Titration) Melting Point: 171 - 175 degrees C	25 g	01		
07	FolinCiocalteus Phenol reagent Specifications: Physical Appearance: Clear, yellow liquid Composition 15% Lithium Sulfate [10102-25-7] 2.5% Molybdic Acid Sodium Salt, Dihydrate [10102-40-6] 10% 1.0 N Hydrochloric acid [7647-01-0] 5% 85% Phosphoric Acid [7664-38-2] 10% Sodium Tungstate [10213-10-2] < 1% Liquid Bromine	500 ml	01		
08	Sulfanilic Acid Specifications: Grade: JIS Special Grade Appearance: White - slightly brown, crystalline powder Melting Point: > 300 degrees C	100 g	01		
09	Sodium Bi Carbonate Specifications: Grade: Wako Special Grade Appearance: White crystalline powder Content: 99.0+% (after drying)(Titration) Melting point: 270 degrees C	500 g	01		
10	DMSO Specifications: Grade: JIS Special Grade Appearance: Colorless clear liquid Density: 1.099 - 1.103g/ml (20 degrees C	500 ml	01		
11	Di-potassium Hydrogen Phosphate Specifications: Grade: Wako 1st Grade Appearance: White, crystals - powder Contents: 98.0+% (after drying at 110degrees C)(Titration)	500 g	02		
12	Ammonium Sulfate	500 g	02		

	Specifications: Grade: Wako 1st Grade Appearance: White, crystals Content: 99.0+% (after ignition)(Titration)				
13	Trichloro Acetic Acid Specifications: Grade: for Biochemistry Appearance: White, crystals or mass Density: 99.0+% (After Drying)(Titration)	100 g	01		
14	Calcium Acetate Monohydrate Specifications: Grade: Wako 1st Grade Appearance: White, crystalline powder – powder Density: 98.0+% (Titration) pH: pH (50g/l, 25 degrees C) : 6.5 - 9.0	500 g	01		
15	L-Tyrosine Specifications: Grade: Wako Special Grade Appearance: White, crystals – powder Content: 99.0+% (Titration) Specific Rotation: -11.3 - -12.1 degrees	100 g	01		
16	BSA	05 mg	01		
17	Keratin Specifications: Source: <i>Scleroproteins hooves and horns</i> Physical Description: Brown/tan powder Solubility: Water solubility 0.5%, pepsin 1.7%	25 g	01		
18	Tris Base Specifications: Grade: Ultrapure Abs.@280nm (1M, Water) 0.05 Abs.@290nm (40%, Water) 0.2 Abs.@400nm (40%, Water) 0.05 Arsenic (%) < 0.0005 Copper (%) < 0.0001 Identification (P/F) Insolubles (%) 0.005 Iron (%) < 0.0001 Lead (%) < 0.0001 Magnesium (%) < 0.0005 Melting Point (°C) 168 - 172 Moisture (KF) (%) 1.0 pH (5%, Water) @25C 10.0 - 11.5 Purity (%) 99.9 Solubility (10%, Water) (P/F)	500 g	01		
19	2-Cyano Acetamide Specifications: Content: 97.0+% (HPLC)	5 g	01		
20	Sodium Tetraborate Specifications: Melting Point: 741 degrees C Specific Gravity: 2.367 pH: about 9	500 g	01		

21	D-Glucose Specifications: Appearance: White - nearly white, crystals – crystalline powder Melting Point: 146 degrees C Specific Rotation: +52.5 - +53.2 degrees	500 g	01		
22	Sodium Hydroxide Specifications: Grade: Wako 1st Grade Appearance: White pellet Content: 93.0+% (Titration) Melting Point: 318 degrees C	500 g	01		
23	Potassium Sodium (+)-Tartrate Tetrahydrate Specifications: Grade: Wako 1st Grade Appearance: White Crystal Content: 99.0+% (Titration) pH (50g/l, 25 degrees C) : 6.5 - 8.5	500 g	05		
24	Carboxy methyl Cellulose Specifications: Grade: Practical Grade Appearance: White - slightly brown, powder Content: 6.5 - 8.5% (as Na)(After Drying) pH: pH (10g/l, 25 degrees C) 6.0 - 8.0	500 g	02		
25	Sodium Meta Bisulfate Specifications: Appearance: White - nearly white, crystalline powder - powder Content: 95.0+% (Titration) Melting Point: > 300 degrees C	500 g	01		

Lot-06–Reagent for Pilot plant Research Laboratory.

01	Azocasein	5 g	01		
02	Protein quantification kit rapid	1 kit	01		
03	Keratin Azure	5 g	01		
04	Acetone	2.5 L	01		
05	Methanol , HPLC grade.	2.5 L	01		
06	Electrolyte filling solution for Ag/AgCl reference electrode.	250 ml	01		
07	Succinic Acid , puriss p.a., ≥99.0%.	100 g	01		
08	Sodium nitrite, ACS reagent, ≥97.0%.	100 g	01		

Lot -07: Chemicals for Cell and Tissue Culture Laboratory.

01	Penicillin & Streptomycin	100 ml	01		
02	D-MEM (High Glucose) with L-Glutamin and Phenol Red	500 ml	10		
03	Tryphen blue	100 ml	01		

04	TPCK treated trypsin	50 mg	01		
05	Aceton	1L	01		
06	Ethyl acetate, HPLC	1L	01		
07	Ether	1L	01		
08	NaCl	500gm	01		
09	Ethanol for hand wash	2.5L	02		
10	Suffex	4L	05		
	Microbiological Media				
11	Muller Hinton Agar	500g	01		
12	Tryptic Soy Agar	500g	01		
13	Tryptic Soy Broth	500g	01		

Lot-8: Equipment for Pilot plant Research Laboratory.

01	<p>Laboratory Incubator</p> <p>Features:</p> <ul style="list-style-type: none"> • working capacity of chamber can be smaller • depth doesn't include 50 mm of power cable • fluctuation measured in centre of chamber • in space • on uniformly loaded surface • reinforced shelf • reinforced version <p>Specification:</p> <table border="1"> <tr> <td colspan="2">DIMENSIONS:</td> </tr> <tr> <td>chamber capacity¹ [l]</td> <td>56</td> </tr> <tr> <td colspan="2">overall dims² [mm]:</td> </tr> <tr> <td>width</td> <td>595</td> </tr> <tr> <td>height</td> <td>700</td> </tr> <tr> <td>depth (without power cable)</td> <td>600</td> </tr> <tr> <td colspan="2">Internal dims [mm]:</td> </tr> <tr> <td>width</td> <td>395</td> </tr> <tr> <td>height</td> <td>395</td> </tr> <tr> <td>depth</td> <td>360</td> </tr> <tr> <td>weight [kg]</td> <td>50</td> </tr> <tr> <td colspan="2">TEMPERATURE</td> </tr> <tr> <td>temperature range [°C]</td> <td>+5°C above ambient temperature... +100°C</td> </tr> <tr> <td>temperature resolution [°C]</td> <td>every 0,1</td> </tr> <tr> <td>temperature fluctuation³ [°C]</td> <td>CLN / CLW</td> </tr> <tr> <td>at 37°C</td> <td>+/- 0,1 / 0,1</td> </tr> <tr> <td>at 44°C</td> <td>+/- 0,1 / 0,1</td> </tr> <tr> <td>at 50°C</td> <td>+/- 0,1 / 0,1</td> </tr> <tr> <td>at 70°C</td> <td>+/- 0,1 / 0,1</td> </tr> <tr> <td>Temperature variation⁴ [°C]</td> <td></td> </tr> <tr> <td>at 37°C</td> <td>+/- 0,6 / 0,3</td> </tr> </table>	DIMENSIONS:		chamber capacity¹ [l]	56	overall dims² [mm]:		width	595	height	700	depth (without power cable)	600	Internal dims [mm]:		width	395	height	395	depth	360	weight [kg]	50	TEMPERATURE		temperature range [°C]	+5°C above ambient temperature... +100°C	temperature resolution [°C]	every 0,1	temperature fluctuation³ [°C]	CLN / CLW	at 37°C	+/- 0,1 / 0,1	at 44°C	+/- 0,1 / 0,1	at 50°C	+/- 0,1 / 0,1	at 70°C	+/- 0,1 / 0,1	Temperature variation⁴ [°C]		at 37°C	+/- 0,6 / 0,3	No's	01		
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	at 44°C	+/- 0,6 / 0,4			
	at 50°C	+/- 0,7 / 0,6			
	at 70°C	+/- 1,1 / 0,9			
	Time to reach set temperature (from ambient 22°C, +/-2°C) [min]				
	at 37°C	30 / 13			
	at 44°C	35 / 20			
	at 50°C	30 / 20			
	at 70°C	40 / 39			
	recovery time after doors were open for 30 sec [min]				
	C	13 / 2			
	at 44°C	5 / 5			
	at 50°C	6,5 / 5,5			
	at 70°C	19 / 4,5			
	Over temperature protection	class 2.0 to DIN 12880/ class 3.1 (option)/ class 3.1 in TOP+ version			
	EQUIPMENT				
	air convection	natural (CLN)/ forced (CLW)			
	Interior	stainless steel, acid-proof stainless steel to DIN 1.4301			
	housing				
		- powder coated sheet			
	INOX/G	stainless steel linen finisch (len)			
	door type	double/door with viewing window (option)			
	controller	microprocessor with external LCD graphic display			
	shelves fitted	2			
	max shelf workload⁵ [kg]				
		- 10			
	PW ⁶ version	50			
	max unit workload [kg]				
		- 40			
	W ⁷ version	80			
	ELECTRICAL PARAMETERS				
	voltage	230V 50Hz			
	nominal power [W]	400			