

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

Invitation for Tender

Date:31 -05-18

Ref No. CARS/P/245/DNA/RB/OTM/2017-2018

Sealed Tenders are hereby invited from reputed supplier for the Supply, Installation, Testing & Commission of DNA Sequencer for Genetic Engineering and Bio-technology Research 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, University of Dhaka.	
4.	Procuring Entity Code	Not used	
5.	Procuring Entity District	Dhaka	
6.	Invitation for	Equipment of DNA Sequencer.	
7.	Invitation Ref No.	Ref No. – CARS/P/245/DNA/RB/OTM/2017-2018.	
8.	Date	31/05/2018	
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 DNA Sequencer for Genetic Engineering and Bio-Technology Research Laboratory at the CARS , University of Dhaka.	
16.	Tender Publication Date	31/05/2018	
17.	Tender Last Selling Date	27/06/2018 up to office hours	
18.	Tender Closing Date and Time	Date:	Time:
		28/06/2018	12:00 Noon
19.	Tender Opening Date and Time	28/06/2018	12:30 pm
20.	Name & Address of the Office(s)	Address(s)	
	-Selling Tender Document	(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:
		Centre for Advanced Research in Sciences, DU (CARS).	24/06/2018
			Time 11:00 am
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) Availability of Spare- Parts Certainty declaration at least 10 years. (viii) List of Technical experts with bio data (Service Support Team) (ix) List of application support Team with bio data. (x) Warranty: free of cost spare- parts – 36 months and Limited warranty – 10 years. (xi) Manufacturer Authorization (xii) Catalogue (xiii) Training proposal.	
23.	Brief Description of Equipment	Supply, Installation, Testing & Commission of of DNA Sequencer for Genetic Engineering and Bio-Technology Research Laboratory at the CARS , University of Dhaka.	
24.	Brief Description of Related Services	Installation , Commissioning and training.	
25.	Tender Document Price -5,500.00	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
	DNA Sequencer	CARS, DU.	1,58,000.00	120 days from the date of Issuance Purchase order.
PROCURING ENTITY DETAILS				
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, 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 consumables 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 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, University of Dhaka.

Section 6. Schedule of Requirements

Invitation for Tender No:
Tender Package No:

Date

A. List of Goods and Delivery Schedule

Item No.	Description of Item	Unit of Supply	Quantity of Units required	Point of Delivery	Date Required (in days)
1	2	3	4	5	6
01	DNA Sequencer		01	Centre for Advanced Research in Sciences, University of Dhaka.	120 days from the date of issuance of purchase order
	<p>Specification:</p> <p>Enables a more efficient workflow: 32 sample capacity using four 8-well strip tubes, 4-capillary array, Saves time and reduces reagent waste</p> <p>Capable of Sanger sequencing and fragment analysis:</p> <p>Compatible with commercially available sequencing kits: Uses fluorescently labeled dideoxynucleotide triphosphates, Optimized for a broad range of applications including:</p> <ul style="list-style-type: none"> • De novo sequencing, • NGS confirmation, • Resequencing, • Mutation detection, • Mitochondrial sequencing, 				

- Designed to work with all common STR kits on the market,
- Compatible with 4-, 5- and 6-dye STR chemistries
- Microsatellites
- PCR sizing,
- SNP genotyping
- Human cell line authentication.

Integrated Touchscreen Operation:

The Equipment Control Software provides a simple user interface with a clear display of useful features including run set up, consumables and array usage information, as well as system maintenance reminders.

- Easy-to-use operational workflow wizard,
- Operations run directly on the instrument touch screen,
- Ability to monitor run progress and view analyzed results while a run is in progress
- Export files are compatible with commercially available data analysis software such as GeneMarker[®], Mutation Surveyor[®] and GeneMapper[®].

Small-Footprint Advanced Multiplexing:

- The Equipment offers the high performance of a 6-dye compatible CE instrument, but at an affordable price point,

Single-base Resolution:

Accurate and Fast Sequencing:

The Equipment supports Sanger sequencing applications used as orthogonal technology for verification of NGS base calls and DNA and gene sequencing required in a variety of genomic applications.

Consumables and Accessories:

Plug-and-play, prefilled consumables bring capillary electrophoresis capabilities to the hands of any researcher in the laboratory regardless of skill level or expertise. Not only is the Spectrum Compact simple to set up and operate, related consumables such as prefilled buffer and polymer are available in convenient packaging. Accessories such as plates, septa mats and formamide are also available for purchase. All consumables and accessories use 2D barcoding to track key information.

Consumables:

Capillary Array

- 4-Capillary, 36cm/28 cm
- Barcoded for consumable tracking

Cathode Septa Mat

- 8-well septa mat specific for the Spectrum Compact cathode buffer cartridge

Polymer4

- 64 samples

Polymer?

- Barcoded for consumable tracking

- 64 samples
 - Barcoded for consumable tracking

Plate Base & Retainer, 32-Well/96-Well

Buffer

- Prefilled, ready-to-use anode and cathode cartridges
- Barcoded for consumable tracking

Wash Solution

Ready-to-use, pre filled syringe for system washes
Barcoded for consumable tracking

Universal Consumables

Strip Cap, 8-Well

- 8-strip domed caps for PCR plates and tubes to prevent evaporation and contamination
 - Certified RNase- and DNase-free

Strip Tubes, 8-Well

- 8 strip 0.2ml PCR tubes
 - Certified RNase- and DNase-free

Strip Septa Mat, 8-Well

- Autoclavable and reusable up to 5 times for a more costeffective alternative to other sealing methods

Formamide, CE-Grade, 25m l

- Highly deionized, low conductivity, <5f.IS
 - Used for electrokinetic injection on CE instruments
- Supported Dye
- 4-dye sequencing
 - Fluorescein, JOE, FAM-TMR, FAM-ROX or
 - fluorescein, JOE, TMR, and CXR (ROX).
- 4-dye 5-FAM, JOE, TMR-ET, CXR
 - 5-dye 5-FAM, JOE, TMR-ET, CXR-ET, WEN
 - 6-dye 6-FAM, JOE, TMR-ET, CXR-ET, TOM, WEN AB 4-dye sequencing dTAMRA, dROX, dR6G, dR110

- AB 5-dye 6-FAM, VIC, NED, PET, LIZ
- Qiagen 5-dye 6-FAM, BTG, BTY, BTR, BTO
- AB 6-dye 6-FAM, VIC, NED, TAZ, SID, LIZ Q
- iagen 6-dye 6-FAM, BTG, BTY, BTR2, BTP, BTD

Technical Data:

Number of capillary: 4

Number of Dye: 6

Injection Throughput: 4-capillary array

Capillary Array Length: 36/28cm

Dimensions: 40cm W x 70cm D x 60cm H

Weight: 41 kg

**Main Power Voltage: 95-240VAC, 50-60Hz (global compatibility) 15
amps**

Operating Environment: 15°C - 30°C

Sample Capacity: 1-32 samples (four 8-well strip tubes)

Accessories:

1. **Computer: Desktop PC (Instrument also contained an integrated computer) - 01 set.**
 - **Brand: Dell**
 - **Model: Dell Optiplex 9020MT i7**
 - **Processor Type: Intel® Core™ i7-4790 Processor (Quad Core, 8MB, 3.60GHz w/HD4600 Graphics)**
 - **Processor Speed: Quad Core, 8MB, 3.60GHz**
 - **RAM: 8GB DDR3 1600Mhz RAM**
 - **Hard Disk: 1TB 7200RPM SAT A HDD**
 - **Monitor: Dell 21.5" E1916HV LED Backlit Wide Screen**
 - **Graphics Card: HD 4600 Graphics**
 - **Lan: Integrated Gigabit LAN-an-Motherboard**
 - **Audio: Internal Dell Business Audio Speaker**
 - **Optical Drive: Dell SAT A 16X SuperMulti DVD**
 - **Mouse: Dell MS111 USB Optical Mouse**
 - **Keyboard: Dell KB212-B QuietKey USB Keyboard Black**
 - **Interface: Genuine Microsoft windows 8.1 professional 64bit downgrade able to windows 7 professional 64bit license with Windows 8.1 pro or windows 7 pro Recovery CD media**
 - **Warranty:**
2. **True Online UPS: 3KVA, Back-Up: 1 h. - 01**

3. Printer: Color Laser printer for report printing: - 01

4. Starter kit - 01

5. Integrated capillary protector - 01

6. Consumables:

- a. Cartridge for SeqStudio Genetic Analyzer –
Cartridge with 4 capillaries, polymer reservoir, anode buffer. Qty – 06
- b. Cathode Buffer container - 4 containers. Qty – 02
- c. Sanger Sequencing Kit :
2 x 100 rxns ExoSAP-IT Express
• 2 x BigDye Terminator v3.1 sequencing buffer (5X)
• 1 x 800 µL BigDye Terminator v3.1 ready reaction mix
• 1 tube M13 (-21) primer
• 1 tube pGEM control DNA
• 1 x 2 mL XTerminator solution
• 1 x 9 mL SAM solution Qty- 01
- d. Matrix Standard Kit : BigDye Terminator v3.1 matrix
standard kit for SeqStudio Genetic Analyzer Qty – 01.
- e. Matrix Standard Kit : Multi-Capillary DS-33.
(Dye Set G5) Matrix Standard Kit for fragment
analysis for SeqStudio Genetic Analyzer Qty – 01.
- f. BigDye Terminator Sequencing Standard:
BigDye Terminator v3.1 Sequencing Standard
kit for SeqStudio Genetic Analyzer Qty – 02.
- g. BigDye Terminator Cycle Sequencing kit :
BigDye Terminator v3.1 Cycle Sequencing kit
for SeqStudio Genetic Analyzer Qty – 04.
- h. AmpliFISTR Identifier kit:
AmpliFISTR Identifier kit. PCR Regents Qty – 01.
- i. AmpliFISTR Identifier kit Allelic Ladder :
AmpliFISTR Identifier kit Allelic Ladder. 600 LIZ Qty- 01.

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