

Professor Dr. Mamun Rashid Chowdhury
Sub-Project Manager
Teaching-Learning Facilities in the Dept. of
Biochemistry & Molecular Biology CP-213



**Department of Biochemistry
& Molecular Biology**

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Dhaka-1000, Bangladesh

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TENDER DOCUMENT FOR THE PROCUREMENT OF GOODS

Supply Installation Testing and Commissioning of Biochemistry Laboratory Scientific Equipments for CP-213

(Package No. G-3)

Tender No. : DU Tender/ **HEQ/CP/213-02/11**

Issued Date: :

Package No : G-3

Issued To :



Higher Education Quality Enhancement Project (HEQEP)
Department of Biochemistry & Molecular Biology
University of Dhaka.
Dhaka-1000.

Invitation for Tender

Date:03/07/11.

Ref No. DU Tender/ **HEQ/CP/213-02/11**

Sealed Tenders are hereby invited from reputed supplier for the Supply ,installation, testing and commissioning of Scientific Equipment.

1.	Ministry/ Division	Ministry of Education		
2.	Agency	University of Dhaka		
3.	Procuring Entity Name	Sub-Project Manager, HEQEP CP-213,		
4.	Procuring Entity Code	Not used		
5.	Procuring Entity District	Dhaka		
6.	Invitation for	Goods		
7.	Invitation Ref No	DU Tender/ HEQ/CP/213-02/11		
8.	Date	03/07/11		
KEY INFORMATION				
9.	Procurement Method	Open Tendering Method		
FUNDING INFORMATION				
10.	Budget and Source of Funds	Development Budget		
11.	Development Partner (if) applicable	HEQEP		
PARTICULAR INFORMATION				
12.	Project / Programme Code (if) applicable	Not used		
13.	Project / Programme Name (if) applicable	HEQEP CP-213,		
14.	Tender Package No.	G-3		
15.	Tender Package Name	Supply ,installation, testing and commissioning of Scientific Equipment.		
16.	Tender Publication date	03/07/11		
17.	Tender Last Selling date	23/07/11 up to 3.00pm		
18.	Tender Closing date and time	Date:	Time	
		24/07/11	2:00pm	
19.	Tender Opening date and time	24/07/11	3:00pm	
20.	Name and Address of the Office's	Address		
	Selling Tender Document (Principal)	HEQEP Office ,Department of Biochemistry & Molecular Biology University of Dhaka		
IFORMATION FOR TENER				
21.	Eligibility of Tender	(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 sake service ad motioned in the TSD		
22.	Brief Description of Goods or Works	Supply ,installation, testing and commissioning of Scientific Equipment .		
23.	Brief Description of related service	Instillation Commissioning & Training		
24.	Tender Document Price	1000.00 (Cash)		
25.	Identification/Name of Equipment	Location	Tender security Amount in Tk.	Completion Time
	Supplying the Lab equipment	Biochemistry & Molecular Biology University of Dhaka	1,40,000/-	90 days from the date of issuance of work order
PROCURING ENTITY DETAILS				

26.	Name of official inviting Tender	Prof. Dr. Mamun Rashid Chowdhury
27.	Designation of the Official inviting tender	Sub-Project Manager, CP213
28.	Address of the official inviting tender	Department of Biochemistry & Molecular Biology, University of Dhaka
29.	Contact details of the official inviting tender	Phone: 9661920-75, extn.: 7635 E-mail: m_rashidbmbdu@yahoo.com
30.	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 HEQEP Project authorities. 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	

Prof. Dr. Mamun Rashid Chowdhury
Sub-Project Manager (HEQEP)& Chairman
 Department of Biochemistry & Molecular Biology, University of Dhaka

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Section 2. Tender Data Sheet

ITT Clause	Amendments of, and Supplements to, Clauses in the Instruction to Tenders												
A. General													
ITT 1.1	The Procuring Entity is : Department of Biochemistry and Molecular Biology, University of Dhaka The name and identification number of tender are as follows												
	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Name</td> <td>Single lot of Supply, Installation Testing and Commissioning of Biochemistry Scientific Equipment .</td> </tr> <tr> <td>Package No.</td> <td>G-3</td> </tr> <tr> <td>IFT No.</td> <td>DU Tender/HEQ-CP-213/02/11</td> </tr> </table>	Name	Single lot of Supply, Installation Testing and Commissioning of Biochemistry Scientific Equipment .	Package No.	G-3	IFT No.	DU Tender/HEQ-CP-213/02/11						
	Name	Single lot of Supply, Installation Testing and Commissioning of Biochemistry Scientific Equipment .											
	Package No.	G-3											
IFT No.	DU Tender/HEQ-CP-213/02/11												
ITT 1.2	The number, identification and name of lots comprising the Tender are: The Tender comprises of six items as follows:												
	<table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">1.</td> <td>High Quality Refrigerated Centrifuge</td> </tr> <tr> <td>2.</td> <td>Gel Electrophoresis Apparatus High Configuration pH Meter</td> </tr> <tr> <td>3.</td> <td>Oven/Sterilizer Temperature Controlled Water baths Incubator shaker</td> </tr> <tr> <td>4.</td> <td>Spectrophotometer</td> </tr> <tr> <td>5.</td> <td>Glass Distillation Plant Distillation Deionization System</td> </tr> <tr> <td>6.</td> <td>Analytic balances Gilson Micropipette</td> </tr> </table>	1.	High Quality Refrigerated Centrifuge	2.	Gel Electrophoresis Apparatus High Configuration pH Meter	3.	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker	4.	Spectrophotometer	5.	Glass Distillation Plant Distillation Deionization System	6.	Analytic balances Gilson Micropipette
	1.	High Quality Refrigerated Centrifuge											
	2.	Gel Electrophoresis Apparatus High Configuration pH Meter											
	3.	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker											
	4.	Spectrophotometer											
	5.	Glass Distillation Plant Distillation Deionization System											
6.	Analytic balances Gilson Micropipette												
ITT 3.1	The source of public fund is Development Budget (Government and Aid credit)												
ITT 3.3	The name of the Development Partner is IDA												
ITT 5.1	Tenderers from the following countries are not eligible: Israel and the IDA non-eligible countries												
ITT 6.1	Goods and Related Services from the following counties are not eligible: Israel and the IDA non-eligible countries												
B. Tender Document													
ITT 8.2	The Following is the office of the Procuring Entity for the purpose of providing the tender documents : Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 Facsimile number: Electronic mail address: m_rashidbmbdu@yahoo.com												

ITT 9.1	<p>For <u>clarification of Tender purposes</u> only, the Procuring Entity's address is: Attention: Professor Dr. Mamun Rashid Chowdhury, Sub-Project Manager Department of Botany, University of Dhaka Telephone: 9661920-75 Ext: 7635 Facsimile number: Electronic mail address: m_rashidbmbdu@yahoo.com</p>																			
ITT 10.1	Pre-Tender meeting shall not be held .																			
C. Qualification Criteria																				
ITT 13.1	The maximum of three (3) number of arbitrations against the Tenderer over a period of last five years																			
ITT 14.1(a)	The Tenderer shall have a minimum of five (5) years of overall experience in the supply of goods and related services.																			
ITT 14.1(b)	The Tenderer shall have successfully completed minimum three (3) numbers supply contract of similar goods and related services within last 5 (five) years. i.e years counting backward from the date of publication of IFT in the news paper.																			
ITT 14.1(c)	This sub-clause is not applicable																			
ITT 15.1(a)	<p>The satisfactory completion of supply of similar goods under maximum 2 (two) contracts in the last 5 (five) years. i.e. years counting backward from the date of publication of IFT in the news paper shall be as follows in BDT 50 Lakh in a single tender.</p> <table border="1" data-bbox="424 1328 1495 1742"> <tr> <td data-bbox="424 1328 579 1395">1.</td> <td data-bbox="579 1328 1495 1395">High Quality Refrigerated Centrifuge</td> <td data-bbox="1495 1328 1495 1395"></td> </tr> <tr> <td data-bbox="424 1395 579 1462">2.</td> <td data-bbox="579 1395 1495 1462">Gel Electrophoresis Apparatus High Configuration pH Meter</td> <td data-bbox="1495 1395 1495 1462"></td> </tr> <tr> <td data-bbox="424 1462 579 1541">3.</td> <td data-bbox="579 1462 1495 1541">Oven/Sterilizer Temperature Controlled Water baths Incubator shaker</td> <td data-bbox="1495 1462 1495 1541"></td> </tr> <tr> <td data-bbox="424 1541 579 1608">4.</td> <td data-bbox="579 1541 1495 1608">Spectrophotometer</td> <td data-bbox="1495 1541 1495 1608"></td> </tr> <tr> <td data-bbox="424 1608 579 1675">5.</td> <td data-bbox="579 1608 1495 1675">Glass Distillation Plant Distillation Deionization System</td> <td data-bbox="1495 1608 1495 1675"></td> </tr> <tr> <td data-bbox="424 1675 579 1742">6.</td> <td data-bbox="579 1675 1495 1742">Analytic balances Gilson Micropipette</td> <td data-bbox="1495 1675 1495 1742"></td> </tr> </table>		1.	High Quality Refrigerated Centrifuge		2.	Gel Electrophoresis Apparatus High Configuration pH Meter		3.	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker		4.	Spectrophotometer		5.	Glass Distillation Plant Distillation Deionization System		6.	Analytic balances Gilson Micropipette	
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6.	Analytic balances Gilson Micropipette																			
ITT 15.1(b)	The minimum amount of liquid asset or working capital or credit facility is Tk. Fifty (50) lakh																			

D. Preparation of Tender

ITT 21.1(q)	The Tenderer shall submit with its Tender the following additional documents: (a) documentary evidence of having successfully completed at least Two (2) Contracts of similar goods and related services (b) Original Printed Catalogue of quoted equipment (c) Documentary evidence in support of the capacity for providing after sales services for maintenance and repair of the relevant equipment in the form of local competent and qualified technical experts, and the CV of these technical experts.
ITT 22.1	Alternatives Tenders will not be permitted.
ITT 23.3	Tenders are being invited for one or more items on an <i>Item- by- item basis</i> .
ITT 23.6	Price quoted for each lot shall correspond to one hundred percent (100%) of the items specified for each lot and correspond to one hundred percent (100%) of the lot value
ITT 23.8	This sub-clause is not applicable .
ITT 23.11	Price quoted by the Tenderer “ shall not ” be adjustable for duration of the Contract.
ITT 25.2(b)	This sub-clause in respect of Spare parts for ten years operation is to be complied with. However cost of spare parts shall not be included in the evaluation of tenders.
ITT 26.1(b)	Manufacturer’s authorization is: “ required ” A Manufacturer’s Authorisation Letter is required for all the items listed in Section 6: Schedule of Requirements .
ITT 26.1(C)	After sales service is: “ required ”. The bidders are required to be submit a certificate from a competent authority that they are able to repair/maintain the equipment if they award the contact, with the help of their local technical personal.
ITT 27.2	The Tender validity period shall be one hundred and twenty (120)days .
ITT 29.2	In favour of Sub-Project Manager, (CP-213) Teaching-Learning Facilities in the Dept. of Biochemistry & Molecular Biology .
ITT 29.3	The amount of the Tender Security shall be BDT 1,40,000.00 (One Lac Forty Thousand) .

ITT 29.4	N/A
ITT 34.1	In addition to the original of the Tender, Two (2) copies shall be submitted.
E. Submission of Tender	
ITT 35.2(c)	The inner and outer envelopes shall bear the following additional identification marks : IFT No. DU Tender/HEQ/CP-213/02/11 Name of the Tender: Single lot of Supply, Installation Testing and Commissioning of Biochemistry Scientific Equipment Package No. G-3
ITT 35.7	Tenderer shall not have the option of submitting their tender electronically.
ITT 35.8	This sub-clause is not applicable .
ITT 36.1	For <u>Tender submission purposes</u> ,the Procuring Entity’s address is: Professor Dr. Mamun Rashid Chowdhury, Project Sub-Project Manager, Department of Biochemistry and Molecular Biology, University of Dhaka CP-213 Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com The deadline for submission of Tenders is 2:00 PM on July 24 , 2011
ITT 36.3	Submission of tender in more than one location (Multiple dropping) is not permitted .Tender shall submit tenders in only one place as specified in ITT clause 36.1 Tenders may submit their tender by hand or by courier service with the deadline.
F. Opening and Evaluation of Tenders	
ITT 42.2	The Tender opening shall take place at Department of Biochemistry and Molecular Biology University of Dhaka On Time and Date :at 3:00 PM on July 24 , 2011
ITT 42.3	This sub-clause is “ Not Applicable ” as electronic tendereing has not been allowed .
ITT 50.5	The applicable economic factors, for the purposes of evaluation of Tenders shall be: (a) <u>Adjustment for Deviations in the Delivery and Completion Schedule</u> : as stated in the section 6 schedule of requirement . (b) <u>Cost of major replacement components, mandatory spare parts, and service:</u> As stated in the section 6 schedule of requirement .
G. Award of Contract	
ITT 58.1	The maximum percentage by which quantities per item may be increased is 20 % . The maximum percentage by which quantities per item may be decreased is 20 % .

ITT 60.2	The amount of Performance Security shall be ten (10%) percent of the Contract Price.
ITT 67.5	The name and address of the office where complaints to the Procuring Entity are to be submitted is: Professor Dr. Mamun Rashid Chowdhury , Sub-Project Manager, HEQEP CP-213 Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com

Section 4. Particular Conditions of Contract

Instructions for completing the Particular Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC clauses.

GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(j)	The Procuring Entity is Department of Biochemistry and Molecular Biology, University of Dhaka, acting through Sub-Project Manager, Teaching-Learning Facilities in the Department of Biochemistry and Molecular Biology CP-213
GCC 1.1(o)	The site(s)/ point(s) of delivery is Sub-Project Manager, CP-213 Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com
GCC 5.1(i)	The following documents shall also be part of the Contract: (a) Tender Notice, (b) Performance Guarantee
GCC 11.1	For notices , the Procuring Entity's contact details shall be: Professor Dr. Mamun Rashid Chowdhury Sub-Project Manager, Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com For notices , the Supplier's contact details shall be:
GCC 18.1	The scope of Supply shall be defined in: Section 6, Schedule of Supply or At the time of awarding the Contract, the Procuring Entity shall specify any change in the Scope of Supply with respect to Section 6, Schedule of supply included in the Tender Document. Such changes may be due, for instance, if the quantities of goods and related Services are increased or decreased at time of award
GCC 22.2	The packing, marking and documentation within and outside the packages shall be: Standard The outer packing may be clearly marked on at least four slides as follows: Name and address of Procuring Entity Name of the Supplier Contract Description Final Destination/Delivery Point Gross weight Package number of total number of packages Brief description of the content Any special lifting instructions: Lift carefully. Any special handling instructions: Handle carefully All packing materials shall be environmentally neutral.
GCC 23.1	The documents to be furnished by the Supplier shall be: The documents to be furnished by the Supplier as follows: a. Three (3) Copies of Supplier's invoice showing goods' description, quantity, unit price, total amount; b. Three (#) copies of the Packing List identifying the contents of each package c. Delivery note, railway receipt, or truck receipt; d. manufacturer's/ supplier's warranty certificate ; e. inspection certificate issued by the nominated inspection agency (or Procuring Entity) and/ or the supplier's factory

GCC 32.1	The inspections and tests shall be :
GCC 33.3	The period of validity of the Warranty shall be (i) a full warranty to cover free parts and free labour /maintenance not below one year from the date of commissioning and handing over to the university of Dhaka plus(ii) a limited Warranty to cover free labour /maintenance service for a further minimum period of two years from the date of expiry of the aforesaid full warranty . In case of total break down beyond repaired within the full warranty period offered replacement of the equipment shall have to be made (iii) bidders are bound to repair/ maintenance the instrument for rest of its life . The cost of the repair/ maintenance will be borne by the purchaser .
GCC 33.6	The Supplier shall correct any defects covered by the Warranty within thirty (30) days of being notified by the Procuring Entity of the occurrence of such defects.
GCC 35.1	<p>The applicable rate for liquidated damages for delay shall be : 1 percent of the Contract price of the delayed Goods or unperformed Related services for each week of delay until actual delivery or performance</p> <p>The maximum amount of liquidated damages shall be: Ten percent (10%) of the Contract Price.</p>
GCC 47.2(b)	The name of the Adjudicator. shall be mutually agreed before the signing of the contract.

GCC 47.3(b) Arbitration shall take place in : Department of Biochemistry and Molecular Biology, University of Dhaka.

Section 5. Tender and Contract Forms

Form	Title
Tender Forms	
PG3 – 1	Tender Submission Letter
PG3 – 2	Tenderer Information Sheet
PG3 – 3A	Price Schedule for Goods
PG3 – 3B	Price Schedule for Related Services
PG3 – 4	Specifications Submission and Compliance Sheet
PG3 – 5	Manufacturer's Authorisation Letter
PG3 – 6	Bank Guarantee for Tender Security
Contract Forms	
PG3 – 7	Notification of Award
PG3 – 8	Contract Agreement
PG3 – 9	Bank Guarantee for Performance Security
PG3 – 10	Bank Guarantee for Advance Payment

Forms PG3-1 to PG3-6 comprises part of the Tender and should be completed as stated in ITT Clause 21.

Forms PG3-7 to PG3-10 comprises part of the Contract as stated in GCC Clause 5.

Tender Submission Letter (Form PG3 – 1)

[This letter shall be completed and signed by the Authorized Signatory preferably on the Letter-Head pad of the Tenderer].

To: Professor Dr. Mamun Rashid Chowdhury Sub-Project Manager,CP-213 Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com	Date:
Invitation for Tender No:	DU Tender/ HEQ/CP/213-02/11
Tender Package No:	G-3
Lot No:	Single Lot

We, the undersigned, offer to supply in conformity with the Tender Document the following Goods and related Services:

In accordance with ITT Clauses 22 and 23, the following prices and discounts apply to our Tender:

The Tender Price is: *Taka [state amount in figures]*
 (ITT Sub-Clause 23.1) *and Taka[state amount in words]*

The conditional/ unconditional discount for being awarded more than one lot in this package is: *Taka [state amount in figures]*
 (ITT Sub-Clause 23.9) *and Taka[state amount in words]*

The methodology for Application of the discount is: *[state the methodology]*
 (ITT Sub-Clause 23.10)

The advance payment is: *[state the amount based on percentage of the Tender Price]*
 (GCC Sub-Clause 27.1)

and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG3 - 10.

In signing this letter, and in submitting our Tender, we also confirm that:

- a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub-Clause 27.2) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- b) a Tender Security is attached in the form of a *[pay order / bank draft / bank guarantee]* in the amount stated in the Tender Data Sheet (ITT Clause 29) and valid for a period of 28 days beyond the Tender validity date;

- c) if our Tender is accepted, we commit to furnishing a Performance Security in the amount stated in the Tender Data Sheet (ITT Sub-Clause 60.2) in the form stated in Tender Data Sheet (ITT Sub-Clause 60.1) and valid for a period of 28 days beyond the date of completion of our performance obligations;
- d) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*;

including Addendum to Tender Documents No(s) *[state numbers]* ,issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum have been issued]*;
- e) we, including as applicable, subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub-Clause 5.1;
- f) we are submitting this Tender as a sole Tenderer
- g) we are not a Government owned entity as defined in ITT Sub-Clause 5.3
or
we are a Government owned entity, and we meet the requirements of ITT Sub-Clause 5.3];
(delete one of the above as appropriate)
- h) we, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents, in accordance with ITT Sub-Clause 5.5;
- i) we, including as applicable subcontractor have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices, in accordance with ITT Sub-Clause 5.6;
- j) furthermore, we are aware of ITT Sub Clause 4.3 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- k) we intend to subcontract an activity or part of the Supply, in accordance with ITT Sub-Clause 16.1 to the following Subcontractor(s);

Nature of the Supply or related service	Name and address of Subcontractor

- l) we, confirm that we do not have a record of poor performance, such as abandoning the Supply, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Sub-Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information Sheet(Form PG3-2);
- m) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall become a binding Contract between us, until a formal Contract is prepared and executed;

- n) we understand that you reserve the right to accept or reject any Tender, to cancel the Tender proceedings, or to reject all Tenders, without incurring any liability to Tenderers, in accordance with ITT Clause 55.1.

Signature:

[insert signature of authorised representative of the Tenderer]

Name:

[insert full name of signatory with National ID]

In the capacity of:

[insert designation of signatory]

Duly authorised to sign the Tender for and on behalf of the Tenderer

[If there is more than one (1) signatory add other boxes and sign accordingly].

Attachment 1: Written confirmation authorising the above signatory(ies) to commit the Tenderer, in accordance with ITT Sub-Clause 34.3;

Tenderer Information Sheet (Form PG3-2)

[The Tenderer shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted]

Invitation for Tender No: **DU Tender/ HEQ/CP/213-02/11**

Date

Tender Package No: **G-3**

A. Individual Tenderers

1. Eligibility Information of the Tenderer [ITT Clauses 5 & 21]	
1.1	Tenderer's Legal Name:
1.2	Tenderer's legal address in Country of Registration
1.4	Tenderer's Year of Registration
1.5	Tenderer's Authorised Representative Information Name National ID number Address Telephone / Fax Numbers e-mail address
1.6	Attached are copies of original documents of : [check box(es) of the attached original documents] <ul style="list-style-type: none"> <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 1.1, in accordance with ITT sub-Clause 5.1 and 5.2] <input type="checkbox"/> In case of government owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITT Sub-Clause 5.3 <input type="checkbox"/> An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the tenderer or employees of a tenderer entering into or signing a Contract with the Procuring Entity in accordance with ITT clause 5 <input type="checkbox"/> An affidavit confirming that the tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing in accordance with ITT Clause 5.

	<ul style="list-style-type: none"> <input type="checkbox"/> A certificate issued by the competent authority of Bangladesh stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Procuring Entity demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfillment of taxation obligations in accordance with ITT Clause 5 . <input type="checkbox"/> Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh in accordance with ITT Clause 5.
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2. Litigation History: *[Number of arbitration awards against the tenderer over the period in accordance the ITT Clause 13.1] if no [state "None"]*

3. Qualification Information of the Tenderer:

3.1	Number of years of overall experience of the Tenderer in the supply of goods and related services as stated under ITT Sub-Clause 14.1(a):	
3.2	Number of completed supply contracts in the supply of similar goods and related services within the period mentioned in TDS as stated under ITT Sub-Clause 14.1(b):	
3.3	The supply and/or production capacity of Goods, if applicable, as stated under ITT Sub-Clause 14.(c)	
3.4	Number of completed supply contracts in the supply of similar goods and related services of required value within the period mentioned in TDS as stated under ITT Sub-Clause 15.1(a): <ul style="list-style-type: none"> ▪ Number of Contracts: ▪ Value of the Contracts: ▪ Period of the Contract: 	
3.5	Available liquid assets or working capital or credit facility in accordance with ITT Clause 15.1(b)	

Price Schedule for Goods (Form PG3-3A)

Invitation for Tender No:	DU Tender/ HEQ/CP/213-02/11	Date:	
Tender Package No:	G-3	Package Description:	Biochemistry Laboratory Scientific Equipment
Tender Lot No:	Single Lot	Lot Description:	

A: PRICE OF GOODS (Including Spare Parts, if any) AND DELIVERY SCHEDULE

1	2	3	4	5	6	7	8	9
Item No	Description Of Item	Country of Origin ,Maker & Model	Unit of Measurement	Qty Of units Required	Unit price (As per Note 1)	Total price (col. 4 × 5)	Point of Delivery as per Schedule of Requirements (Note2)	Delivery Period Offered as per Schedule of Requirements
1.	High Quality Refrigerated Centrifuge		No	1			Deptt. of Biochemistry & Molecular Biology	
2.	Gel Electrophoresis Apparatus High Configuration pH Meter		No	1			Deptt. of Biochemistry & Molecular Biology	
3.	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker		No	1			Deptt. of Biochemistry & Molecular Biology	
4.	Spectrophotometer		No	1			Deptt. of Biochemistry & Molecular Biology	
5.	Glass Distillation Plant Distillation Deionization System		No	1			Deptt. of Biochemistry & Molecular Biology	
6.	Analytic balances Gilson Micropipette		No	1			Deptt. of Biochemistry & Molecular Biology	

Note 1: Price shall include all customs duties, VAT and other taxes already paid or payable if Contract is awarded and Shall be delivered price in final destination or at point of delivery.

Note 2: The Tenderer will complete these columns as appropriate following the details specified in Section 6: Schedule of Requirements

Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

Price Schedule for Related Services (Form PG3-3B)

Invitation for Tender No:	HEQ/CP/213-02/11	Date:	
Tender Package No:	G-3	Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:	Single lot	Lot Description:	<i>[enter description as specified in Section 6]</i>

B: PRICE OF RELATED SERVICES (Including Incidental services, if any) AND COMPLETION SCHEDULE

1	2	3	3	4	5	6	7	
Item No.	Description Of Item	Country of Origin	Unit of Measurement	Qty of units Required	Unit price	Total price (col. 4 × 5)	Point of Completion as per Schedule of Requirements	Completion Schedule Offered as per Schedule of Requirements
1	Installation and Commissioning of the equipment						Deptt. of Biochemistry & Molecular Biology	Ninety (90) Days from the date of signing of the contract
2	Training Services for Related Staff						Deptt. of Biochemistry & Molecular Biology	Ninety (90) Days from the date of signing of the contract
					Total for each item			

Note 1: Related services include (a) Installation and Commissioning of the equipment, and (b) Training Services for Related Staff

Note 2: Price shall include all customs duties, VAT and other taxes already paid or payable if Contract is awarded and

Shall be delivered price in final destination or at point of delivery.

Note 3: The Tenderer will complete these columns as appropriate following the details specified in Section 6: Schedule of Requirements

Note 4: This Price Schedule shall be prepared separately for each **item**.

Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>

Duly authorised to sign the Tender for and on behalf of the Tenderer

Specifications Submission and Compliance Sheet (Form PG3-4)

Invitation for Tender No: **HEQ/CP/213-02/11**

Date:

Tender Package No: **G-3**

Package Description: *[enter description as specified in Section 6]*

Tender Lot No: **Single lot**

Lot Description: *[enter description as specified in Section 6]*

Item No.	Name of Goods or Related Service	Country of Origin	Make and Model (<i>when applicable</i>)	Full Technical Specifications and Standards
1	2	3	4	5
	FOR GOODS			Note 1
1	High Quality Refrigerated Centrifuge			
2	Gel Electrophoresis Apparatus High Configuration pH Meter			
3	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker			
4	Spectrophotometer			
5	Glass Distillation Plant Distillation Deionization System			
6	Analytic balances Gilson Micropipette			
	FOR RELATED SERVICES			
1	Installation and commission			
2	Training of the staff			

[The Tenderer should complete all the columns as required]

Signature:

<i>[insert signature of authorised representative of the Tenderer]</i>
--

Name:

<i>[insert full name of signatory with National ID]</i>

In the capacity of:

<i>[insert designation of signatory]</i>
--

Duly authorised to sign the Tender for and on behalf of the Tenderer

Manufacturer's Authorisation Letter (Form PG3 - 5)

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Tenderer shall include it in its tender, if so indicated in the TDS as stated under ITT Sub-Clause 26.1(b)]

Invitation for Tender No: DU Tender/ HEQ/CP/213-02/11	Date:
Tender Package No: G-3	

Tender Lot No: **Single Lot**

To: Professor Dr. Mamun Rashid Chowdhury ,Sub-Project Manager, CP-213 Department of Biochemistry and Molecular Biology, University of Dhaka Telephone: 9661920-75 Ext: 7635 E-mail: m_rashidbmbdu@yahoo.com	
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WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Goods, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated *in the pcc* under GCC Clause 33 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

under

Date: *[insert date of signing]*

Bank Guarantee for Tender Security (Form PG3- 6)

[this is the format for the Tender Security to be issued by a scheduled bank of Bangladesh as stated under ITT Clauses 29 and 30]

Invitation for Tender No: **DU Tender/ HEQ/CP/213-02/11**

Date:

Tender Package No: **G-3**

Tender Lot No: **Single Lot**

To:

Professor Dr. Mamun Rashid Chowdhury, Sub-Project Manager, CP-213

Department of Biochemistry and Molecular Biology, University of Dhaka

Telephone: 9661920-75 Ext: 7635

E-mail: m_rashidbmbdu@yahoo.com

TENDER GUARANTEE No:

We have been informed that *[insert name of Tenderer]* (hereinafter called "the Tenderer") intends to submit to you its Tender dated *[insert date of Tender]* (hereinafter called "the Tender") for the supply of *[description of goods and related services]* under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, Tenders must be supported by a Bank Guarantee for Tender Security .

At the request of the Tenderer, we *[insert name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security ; or
- b. refused to accept the Notification of Award (NOA) within the period as stated under Instructions to Tenderers (ITT) ; or
- c. failed to furnish Performance Security within the period as stipulated in the NOA; or
- d. refused to sign the Contract Agreement by the time specified in the NOA; or
- e. did not accept the correction of the Tender price following the correction of the arithmetic errors in accordance with the ITT; or

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copies of the contract signed by the Tenderer and the Performance Security issued to you in accordance with the ITT; or

(b) if the Tenderer is not the successful Tenderer, twenty eight (28) days after the expiration of the Tenderer's Tender validity period, being [*date of expiration of the Tender validity plus twenty eight(28) days*]

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Seal

Contract Agreement (Form PG3 - 8)

THIS AGREEMENT made the [day] day of [month] [year] between [name and address of Procuring Entity] (hereinafter called "the Procuring Entity") of the one part and [name and address of Supplier] (hereinafter called "the Supplier") of the other part:

WHEREAS the Procuring Entity invited Tenders for certain goods and related services, viz, [brief description of goods and related services] and has accepted a Tender by the Supplier for the supply of those goods and related services in the sum of Taka [Contract Price in figures and in words] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.
2. The following documents forming the Contract shall be in the following order of precedence, namely :
 - (a) the signed Form of Contract Agreement;
 - (b) the Notification of Award
 - (c) The Tender and the appendices to the Tender
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Price Schedules and Schedule of Requirements and;
 - (i) other document including correspondences listed in the PCC forming part of the Contract
3. In consideration of the payments to be made by the Procuring Entity to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Entity to provide the goods and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Supplier in consideration of the provision of the goods and related services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bangladesh on the day, month and year first written above.

For the Procuring Entity:

For the Supplier:

Signature

Print Name

Prof. Mamun Rashid Chowdhury

Title

Sub-Project Manager, CP-213

In the presence of
Name

Address

**Department of Biochemistry and
Molecular Biology, University of Dhaka**

Bank Guarantee for Performance Security (Form PG3 – 9)

[this is the format for the Performance Security to be issued by a scheduled bank of Bangladesh in accordance with ITT Sub-Clause 61.1]

Contract No:

Date:

To:

Professor Dr. Mamun Rashid Chowdhury, Sub-
Project Manager, CP-213

**Department of Biochemistry and Molecular
Biology, University of Dhaka**

Telephone: 9661920-75 Ext: 7635

E-mail: m_rashidbmbdu@yahoo.com

PERFORMANCE GUARANTEE No: *[insert Performance Guarantee number]*

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Bank Guarantee for Advance Payment (Form PG3 – 10)

[this is the format for the Advance Payment Security to be issued by a scheduled bank of Bangladesh in accordance with GCC Clause 27.1]

Contract No:

Date:

To:

Professor Dr. Mamun Rashid Chowdhury ,Sub-Project Manager, CP-213
Department of Biochemistry and Molecular Biology,
University of Dhaka
Telephone: 9661920-75 Ext: 7635
E-mail: m_rashidbmbdu@yahoo.com

ADVANCE PAYMENT GUARANTEE No:

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your Particular Conditions of Contract Clause 26.1, Advance Payment(s) on Contracts must be supported by a bank guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Procuring Entity and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Section 6. Schedule of Requirements

Invitation for Tender No: **DU Tender/ HEQ/CP/213-02/11**
 Tender Package No: **G-3**

Date **15/04/2011**

A. List of Goods and Delivery Schedule

When completing Form PG3-2 the Tenderer shall quote prices and contract delivery dates for each item against each lot and show each Lot separately, as specified in the List of Goods and Delivery Schedule.

Single Lot

Item No.	Description of Item	Unit of Supply	Quantity required	Point of Delivery	Date Required (in weeks)
1	2	3	4	5	6
1.	High Quality Refrigerated Centrifuge	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract
2.	Gel Electrophoresis Apparatus High Configuration pH Meter	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract
3.	Oven/Sterilizer Temperature Controlled Water baths Incubator shaker	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract
4.	Spectrophotometer	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract
5.	Glass Distillation Plant Distillation Deionization System	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract
6.	Analytic balances Gilson Micropipette	No	1	Department of Biochemistry & Molecular Biology University of Dhaka	Ninety (90) Days from the date of signing of the contract

- Country of origin: USE/Japan/UK/EC/Germany/Italy/quivalent.
- The bidder are required to submit original catalogue/Broacher of the offered instruments

B. List of Related Services and Completion Schedule

When completing Form PG3-2 the Tenderer shall quote prices and Completion date for services for each item against the package

Item No.	Description of Related Services	Unit of Supply	Quantity of Units Required	Point at which Services are required	Required Completion Date for Services
1	2	3	4	5	6
Procuring Entity's Option for delivery terms is:					<i>[note 1]</i>
1	Installation and Commissioning of the equipment		1	Department of Biochemistry & Molecular Biology, University of Dhaka	Ninety (90) days from the date of signing of the contract
2	Training Services for Related Staff		1	Department of Biochemistry & Molecular Biology, University of Dhaka	Ninety (90) days from the date of signing of the contract

Note 1: This Price Schedule for Related Services shall be prepared separately for each **item**.

Section 7. Technical Specifications



**Teaching-Learning Facilities in the
Dept. of Biochemistry & Molecular Biology , DU CP-213
University of Dhaka**

DU Tender/ HEQ/CP/213-02/11

High Quality Refrigerated Centrifuge

Item	Description of product	
	Product	High Quality Refrigerated Centrifuge
	<p>High Quality Refrigerated Centrifuge (including two Rotor) Maximum RPM 18,000 Maximum RCF 30,065 Temperature Set Range: -10°C to +40°C 220 V, 60Hz, Without rotor Universal High-speed Tabletop Centrifuge Microprocessor controlled LCD display Suitable for : Centrifuge tubes and bottles, microtiter plates, tissue-culture tubes, microliter tubes, etc. Refrigerated Centrifuge as well as the: The robust, long lasting and maintenance-free brushless induction drive, the intelligent APRITM™-System (Automatic Positive Rotor Identification) and the very high safety standard including the motor driven lid lock mechanism offer the user the comfortable benefits Max. Capacity : 4 x 200 ml Max. g-Force : 30,065 x g Max. Speed : 18,000 rpm Refrigeration: -10°C to +40°C With increments of 1°C APRITM System for Rotors: Automatic positive rotor identification of rotors Programmability: 10 programs Information Display: Dot Matrix LCD display of both preset and actual values User Interface: Operating panel with 4 buttons and one rotary knob for all parameters Preset Time: From 1 to 60 min with increments of 1 min; on request up to 999 min possible "HOLD" for longer runs "PULSE" for short runs Preset Speed: From 500 rpm to max. speed with increments of 100 rpm Preset g-Force: With increments equivalent to 100 rpm Drive System: Direct self-centering drive system with brushless induction motor Speed Accuracy: ± 2 rpm at 1,000 rpm / ± 20 rpm at max. speed Acceleration Time depending on rotor: 30 sec. – 1.5 min. Deceleration Time depending on rotor: 40 sec. – 2.5 min. Acceleration and Deceleration Rates: In 9 steps of 15 sec. from 0 to 120 sec. in the range of 0-1,000 rpm Braking System: Dynamic electric brake system – acoustic signal at the end of the run Cooling at standstill: Possible Temperature Control Accuracy: ±2°C on tested rotor Temperature Control System: Bypass system Overtemperature Protection: YES Refrigeration System: CFC-free refrigerant Safety Features: Overspeed detection Imbalance detection and cut-off Four point lid fixing Automatic motor driven lid lock with emergency lid lock release Stainless steel chamber with additional inner guard ring Including Rotor for Fixed Angle Rotor 24 x1.5-2.00ml, <u>Hermetically sealing lid</u> Maximum RPM 18,000 Maximum RCF 29,703 Including Rotor for Fixed Angle Rotor 8 x50ml, <u>Hermetically sealing lid</u> Maximum RPM 14,000 Maximum RCF 21,036</p>	

Lot B, Gel Electrophoresis Apparatus

	Description of product
	Gel Electrophoresis Apparatus
(a)Product	<p>Electrophoresis Power Supply Voltage, current and output stable 9 programs can be stored Automatic control of programs via timer setting Program will continue automatically after power cut Connection of 3 or 4 units possible High safety standard With 3 year warranty Voltage (V) ($\pm 2\%$ max. V): 0- 400 Max. intensity of current: 300 mA Max. output: 50 W Timer : 0- 99.59 h Volt- hours: 0- 99.99 kWh Display: LED, 2 x 16 characters Resolution: 1 V / 1 mA / 1 W Programs: 9 x 9 parameter settings Outlets: parallel socket pairs: 3 (4 mm) Min. load resistor: 30 Ω Leak recognition: 500 μA</p>
(b)Product	<p>MAXI Vertical Dual Plate Electrophoresis Unit coolable Glass plates: 20 x 20 cm Max. sample capacity per gel: 48 Buffer volume (upper/lower tank): 650 ml/1000 ml With glass plate stops – for reliable pouring of gels and optimised results. incl. 1 vertical electrophoresis chamber with buffer tank, lid and cables, 1 running module for simultaneous electrophoresis with two gels. The chamber is available as standard or coolable version. with 2 glass plates, 2 separate spacer pairs (spacer thickness 1 mm), 2 notched glass plates, 1 dummy plate (for electrophoresis with one gel only), 2 combs (24 teeth, 1 mm thick), gel casting module.</p>

High Configuration pH Meter

	Description of product
	High Configuration pH Meter
	<p>Product</p> <p>Simultaneous display of pH or mV-value and temperature Automatic 1-/2-/3-point calibration Active calibration data can be retrieved separately Calibration interval control (1 to 999 days) With display of calibration rating and condition of electrode Automatic or manual temperature compensation. Switch-over to manual temperature input when sensor is missing. Real-time clock with date Stability control: Function for controlling stability of measured value. NTC30- or Pt 1000-temperature sensor are suitable for connection Battery and mains operated. Automatic switch-off can be activated when battery operated</p>
	<p>Measuring range/resolution</p> <p>-2.000 to +19.999 pH -999.9 to +999.9 mV -1999 to +1999 mV -5.0 to +120.0 °C</p>
	<p>Accuracy</p> <p>± 0.005 $\pm 0.3 / \pm 1$ mV temp. ± 0.1 K</p>
	<p>Dimensions (L x W x D)</p> <p>240 x 190 x 80 mm</p>
	<p>incl. power unit, 4 batteries Mignon 1.5 V, stand (with 1.5 kg heavy base and arm with 3 adjustable points), calibrating solutions, unit cover and pH-electrode BlueLine 14pH with integral temperature probe.</p>

Lot C, Oven/Sterilizer

Description of product	
Product	Oven/Sterilizer
Temperature range: Range of control	Model Basic 30 to 220 °C; begins at 5 °C, for air turbo- cabinets at 10 °C above room temperature. Interior made of stainless steel (1.4301) With tilt- proof stainless steel grids (up to size 300: incl. 1 grid, size 400 to 600: incl. 2 grids) Housing made of grained stainless, with galvanized sheet steel back Admixture of preheated fresh air can adjusted via air vents Mains supply 230 V, 50/60 Hz 53
Volume (l)	
Temperature deviation at 150 °C:	
Temporal (°C)	≤±0.5
Spacial (°C)	≤±2.7

Temperature Controlled Water baths

Description of product	
Product	Water baths with slanting lid
Features	Setting range from 10 to 95 °C, with additional boiling level Control range begins at least 5 °C above ambient temperature With programmable hold- time and switch- on delay Electronic microprocessor- PID- regulator Mechanical temperature limiter TB Integral digital clock (1 min to 99 h and 59 min) Stainless steel work area Bath can be emptied via outlet valve We recommend ordering the matching floor grid if no test tube racks are to be used
Volume approx. (l)	14
Length (mm)	350
Width (mm)	290
Height (mm)	140

Incubator shaker

Description of product	
Product	Incubator shaker
Movement:	circular
LED display for speed and time setting plus temperature Integrated PID temperature control With RS 232 interface	
Technical specifications:	
Temperature range	5 °C above room temperature to +80.0 °C
Temperature constancy / Resolution	±0.1 °C / 0.1 °C
Speed range	10 to 500 min ⁻¹
Shaking amplitude (stroke)	20 mm
Time switch	1 min to 999 h or permanent ru
Max. load	20 kg
Height of interior	280 mm
Outer dimensions (WxDx H)	580 x 750 x 520 mm
Heating power	1000 W
Power supply	230 V, 50/60 Hz
Universal top Attachment holder with 6 infinitely adjustable tension rollers for universal fit to all vessels. Floor space W 380 x D 410 mm. Can hold: e.g. 2 Erlenmeyer flasks 2000 ml or 9 Erlenmeyer flasks 500 ml	

Lot D, Spectrophotometer

Description of product	
Spectral Slit Width	20 nm
Wavelength Range	340 to 950 nm
Wavelength Accuracy	± 2.5 nm near 525 nm
Display	LED %T, Abs, Conc, Concentration Factor Wavelength
Photometric Range	0 to 100%T 0 to 1.95 Abs 0 to 1999 Conc 0.1 to 1000 Concentration Factor
Photometric Accuracy	± 2%T
Photometric Noise	± 0.5%T
Photometric Drift	1.0%T/Hour
Accessory Output	1.0 VDC nominal at 100%T RS-232C Serial I/O Port
Stray Radiant Energy	< 0.5%T over entire wavelength range*
Power Requirements	100/115 V, 50/60 Hz; 220/240 V, 50/60 Hz
Dimensions	41.3 W x 21 H x 33 D cm (16 1/4" x 8 1/4" x 13")
Weight	8.2 kg (18 lbs)

Lot E, Glass Distillation Plant

Description of product	
Product	Glass Distillation Plant
Type	Distillation Plant
Power consumption	For producing distilled water from tap water. Ideal for pharmacies or firms with relatively low water consumption.
Distillate amount	Technical specifications:
Cooling water amount	Monodest
Conductivity distillate	2.500 W
Distillate temperature	3.5 l/h
Heating element	45 l/h
Glass parts	1.5 µS/cm
Weight	80 °C
In acc.	Stainless steel
Voltage	DURAN®
Dimensions	3.5 kg
	with DAB norm no
	230 V
	W x D x H (mm) 160 x 220 x 700

Distillation Deionization System

Description of product	
Product	Glass Distillation Plant with deionizer
Type	Distillation Plant
Power consumption	For producing distilled water from tap water. Ideal for pharmacies or firms with relatively low water consumption.
Distillate amount	Technical specifications:
Cooling water amount	Monodest
Conductivity distillate	2.500 W
Distillate temperature	3.5 l/h
Heating element	45 l/h
Glass parts	1.5 µS/cm
Weight	80 °C
In acc.	Stainless steel
Voltage	DURAN®
Dimensions	3.5 kg
	with DAB norm no
	230 V
	W x D x H (mm) 160 x 220 x 700
	Including Deionization system as below
<p>Ion Exchanger (Deionizer) made of Plastic Regenerative For preparing high quality pure deionized water via a mixed bed resin ion exchanger. With a digital conductivity meter, Reading range 0.055-199.9µS/cm with automatic temperature compensation. Limit value alarm can be adjusted to max. 30µS/cm, visual and audible alarm when limit value has been exceeded. High quality water quality: 0.1 to 20µS/cm</p>	

Lot F, Analytic balances

Description of product	Analytic balances
Analytic balances with internal adjustment Application: Piece counting and percentage weighing With maximum capacity display - gradient light strip indicates weighing range still available Equipment options with internal adjustment Adjustment level , RS 232 data interface Dimensions of balances including wind guard: W 225 x D 315 x H 330 mm Dimensions of weighing area: W 190 x D 155 x H 225 mm Technical specifications: Readability (g) 0.0001 Reproducibility/ Linearity (\pm g0.0001 / 0.0002 Platform (mm) Ø 80	

Gilson Micropipette

Description of product	
Product	Micropipette
Gilson Variable Micro pipette	0,2-2
Gilson Variable Micro pipette	1-10
Gilson Variable Micro pipette	2-20
Gilson Variable Micro pipette	10-100
Gilson Variable Micro pipette	20-200
Gilson Variable Micro pipette	100-1000

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