



NED UNIVERSITY OF ENGINEERING & TECHNOLOGY
PROCUREMENT CELL

Tele # 99261261- 68, Fax # 99261255, E-mail: ddff@neduet.edu.pk

“Say NO to Corruption”

No. PC/M-III/2592/

Dated: 17-08-2016.

TENDER NOTICE

Sealed Bids based on “Single Stage One Envelope” are invited from the Manufacturers / Authorized Dealers / Distributors / Suppliers registered with Income Tax and GST Departments for following Procurements:

S#	Tender		Tender Schedule – Date and Time				Tender Fee
	Number	Work	Issue / Sale		Submission	Opening	
			From	To			
1	PC (M-III)/NED /HPCC/Software/ 203/16 (F.O.R Basis)	Procurement of ArcGIS Desktop (Advanced) for HPCC	19-08-2016	05-09-2016	06-09-2016 10:00 A.M	06-09-2016 10:30 A.M	500/-
2	Import of Laboratory Equipment (C&F Basis)		19-08-2016	05-09-2016	06-09-2016 11:00 A.M	06-09-2016 11:30 A.M	1000/-
	PC (M-III)/NED /Textile/Equip/206 /16	Department of Textile Engineering.					
3	PC (M-III)/NED /Mechanical/Equip /211/16	Department of Mechanical Engineering.	19-08-2016	06-09-2016	07-09-2016 10:00 A.M	07-09-2016 10:30 A.M	1000/-
4	PC (M-III)/NED /IMD/Equip/210/ 16	Department of Industrial & Manufacturing Engineering.	19-08-2016	06-09-2016	07-09-2016 11:00 A.M	07-09-2016 11:30 A.M	1000/-
5	PC (M-III)/NED /Materials/Equip/ 208/16	Department of Materials Engineering.	19-08-2016	07-09-2016	08-09-2016 10:00 A.M	08-09-2016 10:30 A.M	1000/-
6	PC (M-III)/NED /Chemical/Equip/ 207/16	Department of Chemical Engineering.	19-08-2016	07-09-2016	08-09-2016 11:00 A.M	08-09-2016 11:30 A.M	1000/-
7	PD (M-III) /NED/ MYD/Equip/209/ 16	Department of Metallurgical Engineering	19-08-2016	08-09-2016	09-09-2016 11:00 A.M	09-09-2016 11:30 A.M	1000/-
Bid Security @ 2% of the total bid cost of each tender separately PO in favor of Director Finance							
Tender Documents can be purchased from ADP-II office & shall be opened as per above schedule in same office.							

A complete detail and specifications of the aforesaid tenders can be downloaded from the University website and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as “No Negotiations” are expected.


Director Procurement
17/08/2016



PURCHASE SECTION
NED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI.
 BY REGISTERED A.D./COURIER SERVICE.

CONTRACT SCHEDULE

1. Contract No:
2. Name & Address of Contractor:
3. Contractor's Tender No. & Date:
4. Indenter's Name & Address:
5. Indenter's Indent No & Date:
6. Particulars of stores:

Dated: _____ 20

As below.

Item No.	Description of Store	Acctg Unit	Price per A/U	Total Qty Reqd.	Total Value
01					

INSTRUCTIONS:

- Store must be delivered to Central Store in due period which will be issued by the Central Store to the Indenter
- A copy of Delivery Challan must be delivered to Purchase Officer on same day after delivery of Store.
- Bill should be submitted Assistant Director Finance (Purchase) along with GST Invoice
- Inspection Certificate may be issued by Central Store within Prescribed period as mentioned in clause 15 of the Indent Form

GRAND TOTAL (Value in Words)

7. Date of Delivery:
8. Place of Delivery: NED University Campus/Consignee,
9. Name & Address of Consignee:

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI.

Name of Development Scheme: Strengthening of NED University of Engineering & Technology, (M.T.I)

PROCUREMENT PLAN 2016 - 2017

S. No.	Name / Title of Procurement including items to be executed	Estimated Cost including GST	Head-of Account / Sub-Head of Account	Approved Allocated Funds	Source of Funds	Nature of Procurement	Method of Procurement	Anticipated Date of			Remarks
								Advertisement	Start	Completion	
1.	Procurement of Laboratory Equipment for Deptt. of Metallurgical Engg.	---	Laboratory Equipment / Metallurgical Engineering	62,460	PSDP-HEC				August	Sept.	Preparation Stage
2.	Procurement of Laboratory Equipment for Deptt. of Materials Engg.	---	Laboratory Equipment / Materials Engineering	19,200	PSDP-HEC				August	Sept.	Preparation Stage
3.	Procurement of Laboratory Equipment for Deptt. of Polymer & Petrochemical Engg.	---	Laboratory Equipment / Polymer & Petrochemical Engineering	7,763	PSDP-HEC				August	Sept.	Preparation Stage
4.	Procurement of Laboratory Equipment for Deptt. of Chemical Engg.	---	Laboratory Equipment / Chemical Engineering	3,039	PSDP-HEC	Press Tender	Single Stage One Envelope	July / August / 2016	August	Sept.	Preparation Stage
5.	Procurement of Laboratory Equipment for Deptt. of Petroleum Engg.	---	Laboratory Equipment / Petroleum Engineering	7,660	PSDP-HEC				August	Sept.	Preparation Stage
6.	Procurement of Laboratory Equipment for Deptt. of Mechanical Engg.	---	Laboratory Equipment / Mechanical Engineering	10,392	PSDP-HEC				August	Sept.	Preparation Stage

2016/17
PD (M-13)



F/QSP 02/01/00

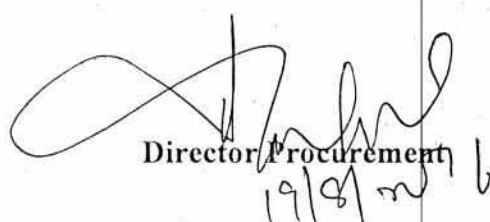
Internal Memo URGENT INFO ONLY IMMEDIATE ROUTINE

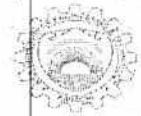
To:	All Concerned	From:	Director Procurement
Sub:	Procurement Committee	Ref:	No. PD(M-III) /NED/ HPCC/Software/203/16 /257
		Date:	19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/HPCC/Software/203/16 as follows:

1. Dr. Muhammad Ali Ismail Convener
HPCC
NEDUET, Karachi
2. Mr. Muhammad Mabroor Khan Member
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi
3. Mr. Fawad Ul Hasan Member/Secretary
Assistant Director Procurement-II
NEDUET, Karachi

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/8/2016



F/QSP 02/01/00

Internal Memo


URGENT INFO ONLY
 IMMEDIATE ROUTINE

To: All Concerned	From: Director Procurement
Sub: Procurement Committee	Ref: No. PD(M-III) /NED/ Textile/Equip/206/16/247
	Date: 19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/ Textile/Equip/206/16 as follows:

1. Dr. Sheraz Hussain Siddique
Department of Textile Engineering
NEDUET, Karachi
Convener
2. Mr. Muhammad Mabroor Khan,
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi
Member
3. Mr. Fawad Ul Hasan
Assistant Director Procurement-II
NEDUET, Karachi
Member/Secretary

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/8/16



R/QSP 02/01/00

Internal Memo


URGENT INFO ONLY
 IMMEDIATE ROUTINE

To: All Concerned	From: Director Procurement
Sub: Procurement Committee	Ref: No. PD(M-III) /NED/ Mechanical/Equip/211/16 /250
	Date: 19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/Mechanical/Equip/211/16 as follows:

1. Dr. Mubashir Ali Siddiqui
Department of Mechanical Engineering
NEDUET, Karachi Convener
2. Mr. Muhammad Mabroor Khan
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi Member
3. Mr. Fawad Ul Hasan
Assistant Director Procurement-II
NEDUET, Karachi Member/Secretary

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/8/2016

**Internal Memo**


URGENT INFO ONLY
 IMMEDIATE ROUTINE

To: All Concerned	From: Director Procurement
Sub: Procurement Committee	Ref: No. PD(M-III) /NED/ IMD/ Equip/210/16 /246
	Date: 19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/ IMD/Equip/210/16 as follows:

- | | | |
|----|---|------------------|
| 1. | Dr. Syed Amir Iqbal
IMD
NEDUET, Karachi | Convener |
| 2. | Mr. Muhammad Mabroor Khan
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi | Member |
| 3. | Mr. Fawad Ul Hasan
Assistant Director Procurement-II
NEDUET, Karachi | Member/Secretary |

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/08/2016



Internal Memo

URGENT INFO ONLY

IMMEDIATE ROUTINE

To:	All Concerned	From:	Director Procurement
Sub:	Procurement Committee	Ref:	No. PD(M-III) /NED/ 245 Materials Equip/208/16
		Date:	19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-III/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/ Materials/Equip/208/16 as follows:

1. Dr. Umair Alam Convener
Department of Materials Engineering
NEDUET, Karachi
2. Mr. Muhammad Mabroor Khan Member
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi
3. Mr. Fawad Ul Hasan Member/Secretary
Assistant Director Procurement-II
NEDUET, Karachi

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.

[Signature]
Director Procurement
19/08/2016



Internal Memo

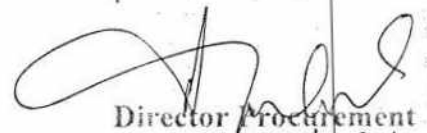
URGENT INFO ONLY
 IMMEDIATE ROUTINE

To: All Concerned	From: Director Procurement
Sub: Procurement Committee	Ref: No. PD(M-III) /NED/ Chemical/Equip/207/16 /249
	Date: 19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/Chemical/Equip/207/16 as follows:

- | | | |
|----|---|------------------|
| 1. | Prof. Dr. Inayatullah Memon
Department of Chemical Engineering
NEDUET, Karachi | Convener |
| 2. | Mr. Muhammad Mabroor Khan
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi | Member |
| 3. | Mr. Fawad Ul Hasan
Assistant Director Procurement-II
NEDUET, Karachi | Member/Secretary |

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/8/2016



Internal Memo

URGENT INFO ONLY

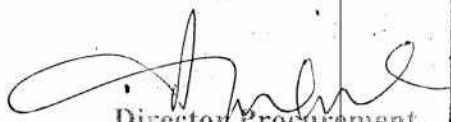
IMMEDIATE ROUTINE

To:	All Concerned	From:	Director Procurement
Sub:	Procurement Committee	Ref:	No. PD(M-III) /NED/ MYD/Equip/209/16 /248
		Date:	19-08-2016

With reference to this University Office Order No. DR(Estab)/(1193)Vol-II/6331 dated: 16.06.2016, the Procurement Committee under Rule 7 of the Sindh Public Procurement Rules (as amended) comprising of the following Members has been constituted for procurement of laboratory equipment (vide Case File No. PD (M-III) /NED/MYD/Equip/209/16 as follows:

- | | | |
|----|---|------------------|
| 1. | Dr. Umair Alam
Department of Metallurgical Engineering
NEDUET, Karachi | Convener |
| 2. | Mr. Muhammad Mabroor Khan
Administrative Officer
Center for Excellence in Marine Biology
University of Karachi | Member |
| 3. | Mr. Fawad Ul Hasan
Assistant Director Procurement-II
NEDUET, Karachi | Member/Secretary |

The TOR / functions / responsibilities of the aforesaid Procurement Committee will be in accordance with Rule-8 of SPP Rules.


Director Procurement
19/8/2016

Date: 27-05-

OFFICE ORDER

In supersession of this office order No. DR (Hstab)/(1005)/11418 dated 02-11-2015, the Deputy Administrator has constituted the Complaint Redressal Standing Committee consisting of the following officers to address complaints regarding all procurement at this University in pursuance of Clause 31(1) of the SPPRA rules:

- | | |
|---|----------|
| 1. Prof. Dr. Saad Ahmad Qazi
Dean (ECI) | Convener |
| 2. Independent Professional from the relevant field | Member |
| 3. Nominee of Accountant General Sindh | Member |

M Hussain
Ag. REGISTRAR

The Convener to all members

Copy for information to:

- 1. Dean (ECI)
- 2. Director Planning & Projects
- 3. Director Finance
- 4. Director, Procurement Cell
- 5. Ag. Resident Engineer

ADP-11

30/5/2016
DP

81
/



NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

INVITATION TO TENDER

PRICE Rs. 500/- (NOT REFUNDABLE/ TRANSFERABLE)

From:
Assistant Director (Procurement-II)
NED University of Engineering and
Technology, Karachi.

To:

M/s. _____

Name of Work: Procurement of Software for Department of
High Performance Computing Centre

Invitation to Tender No. PD(M-III)/NED/HPCC/Software/203/16

Due on

06-09-2016

Dear Sir/ Sirs,

1. You are hereby invited to submit your tender for the items as detailed in the schedule to this invitation. Your offer must be subject to the conditions laid down in the instructions (overleaf). Every tenderer quoting against this invitation to tender shall be deemed to have read and understood these conditions and details, specifications, etc. of items required.
2. The tenderer shall also sign the certificate given to the effect that the items shall be supplied exactly in accordance with requirements specified in the schedule. If there is any deviation, it should be clearly stated by tenderer; otherwise it would be presumed that the offer is strictly in accordance with the requirements of the Tendered Specifications/ Notice.
3. Items required for delivery as stated in the schedule. If, however, it is not possible to deliver by the specified date, tenderer shall give guaranteed date by which he can deliver the items.
4. Failure to submit the tender in the manner prescribed will render it liable to be ignored/discarded.
5. The Tenderer is at liberty to quote for full tendered items and shall supply at rates quoted in his quotation. Part items shall not be considered for award of work.

Yours faithfully,

Assistant Director (Procurement-II)
Phone: 99261261-68 Ext: 2220, 2471
Fax: 99261255

P.T.O.

SPECIAL INSTRUCTIONS

1. The items are required within three weeks. Tenderers may, however, give their **shortest guaranteed delivery period** by which the supply will be completed. In absence of such period, delivery period shall be treated as three weeks after tender acceptance.
2. The tenderers shall quote their firm & final prices, in local currency, on **NED University Campus basis** for the items strictly according to indicating also where items will be offered for inspection particulars given in the invitation to tender.
3. Tenderers are required to specify the **country of origin of items offered, make of year, name of manufacturer, model no. and furnish detailed technical descriptive catalogue/literature along with their offer.**
4. Tenderers are required to deposit the **earnest money @ 2.00 %** of total bid amount in the form of pay order in favour of Director Finance, NED University.
5. **Performance Bond:** Performance Bond in shape of Pay Order / Demand Draft / Bank Guarantee equal to 5% cost of the order shall be furnished within 07 days of acceptance of Purchase order and shall remain in force for 06 months after completion of work. The validity of the Bond will be extended if required.
6. The offer shall remain open for 60 days from the date of opening of tender and the **rates should be inclusive of all taxes. SST must be quoted separately.** If the offer is with-drawn or amended during the validity period of the offer and or if acceptance of tender issued during the validity period of the offer is not accepted by the tenderer, the **earnest money** is liable to be forfeited and further action taken against the defaulter as per SPPRA rules.
7. The purchaser reserves the right to accept any tender or reject any or all tenders under relevant clause of SPPRA Rules 2010.
8. Bidders must provide the Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government Organization) and must have paid and valid Professional Tax Certificate.
9. **Payment Terms:**
 - i) The firm should submit stamp duty as per Government Rules of order value before execution of work.
 - ii) Payment to be made within 30 days after the issuance of inspection certificate and consignee's receipt certificate.
 - iii) 5% Retention Money to be deducted from each Bill and to be released after completion of warranty / maintenance period.
 - iv) If the supply is not according to the specifications or unsatisfactory, the Contract will be rejected and cancelled at the risk and cost of Firm.
 - v) If the firm fails to execute the contract/supply order as per condition, action will be taken against them which may be their black listing and E.M. / S.D. will be forfeited.
 - vi) In case of late delivery @ 0.1% per day will be charged on bid amount deducted from the bill, but not more than 10% of contract value.
10. **Eligibility Criteria: (Single Stage One Envelope Procedure / Method)**
 - (a) **Tender and Bidding documents of this method shall contain the following Eligibility Criteria:**
 - (i) Relevant Experience
 - (ii) Turn-over of at least Three (03) Years
 - (iii) Registration with Income Tax, Sales Tax, SRB and Pakistan Engineering Council (where applicable).
 - (b) **Each bid shall comprise One Single Envelope containing the financial proposal and required information mentioned at clause (a) above.**

11. Evaluation Criteria: In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality.
12. The tenderers shall enclose with their tender a certificate as under; failing which their tender is liable to be considered non-responsive.

CERTIFICATE

We guarantee to supply the stores in accordance with requirements specified in this invitation to tender.

Signature of Tenderer

Name and full Address

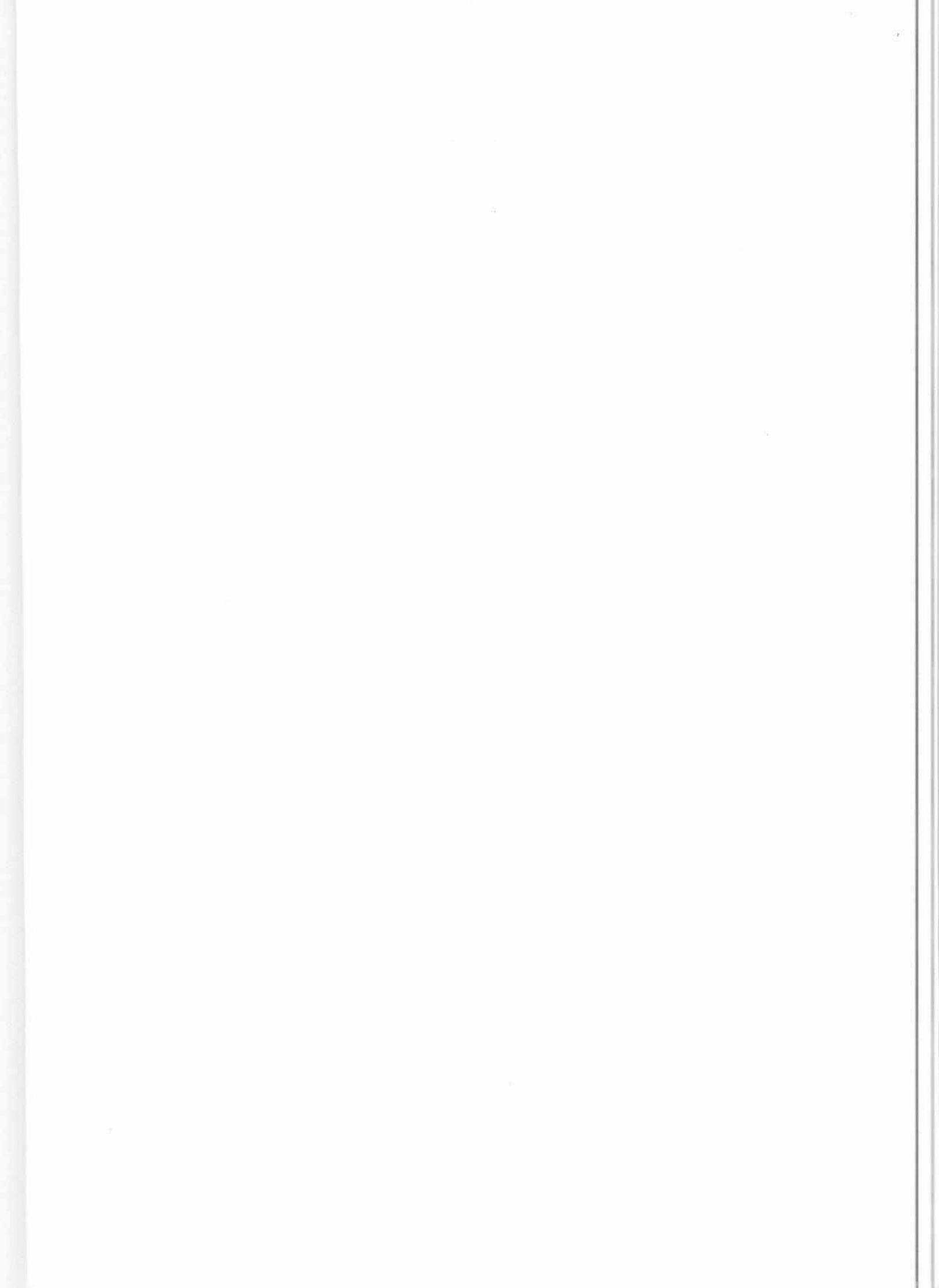
Office Stamp

Phone No.

Fax No.

E-mail Address:

P.T.O.





NED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI.

PURCHASE INFORMATION FORM

PRICE Rs. 500/- (NOT REFUNDABLE/ TRANSFERABLE)

Firm's Registration No. **Not Applicable**

Schedule to Invitation of Tender No. **PD(M-III)/NED/HPCC/Software/ 203/16**

Date of Receipt of Invitation to Tender by Supplier

Time for Receipt of Tender in University on **06-09-2016** up to **10:00 A.M**

Time for Opening of Tender on **06-09-2016** at **10:30 A.M**

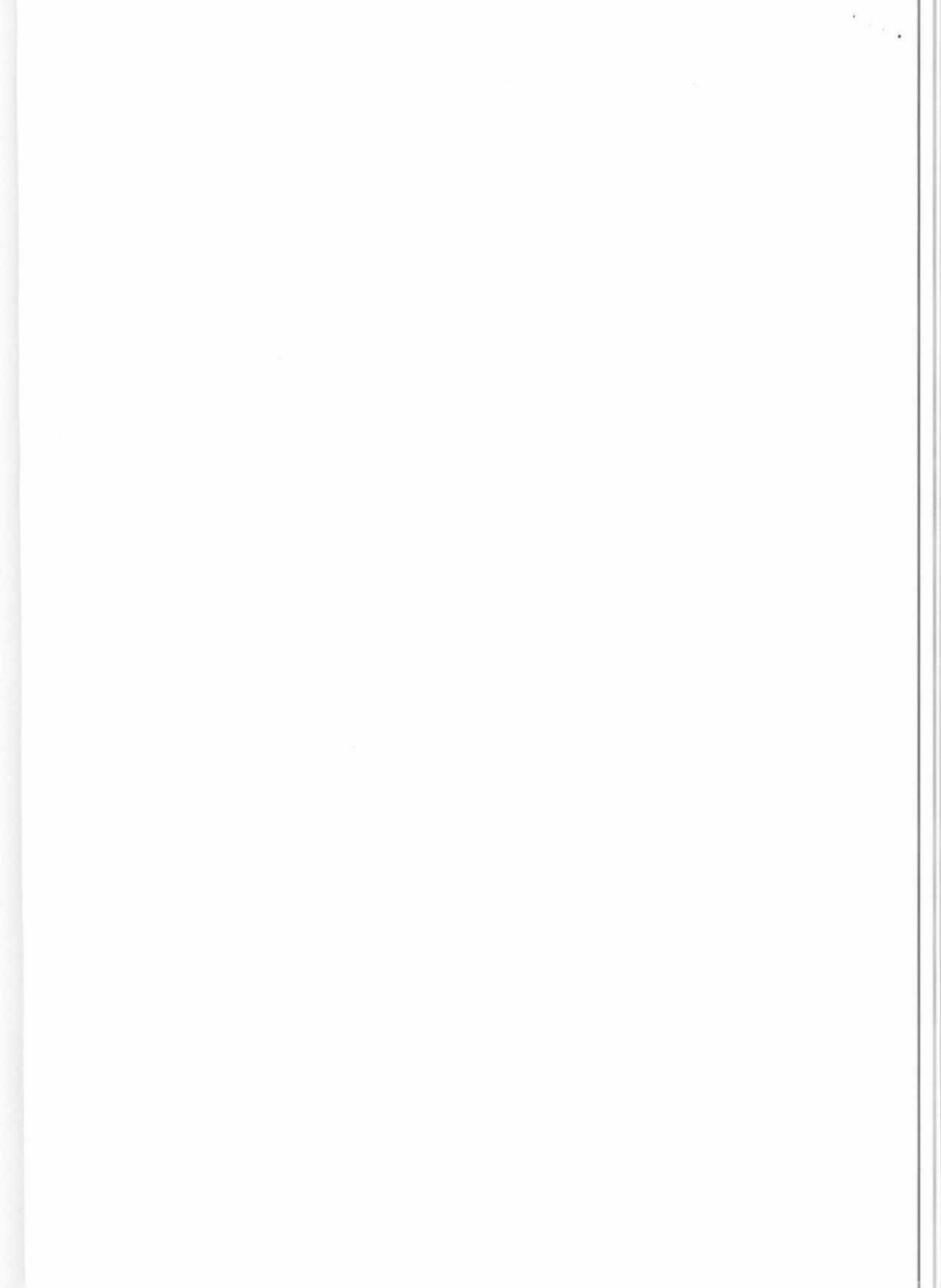
Offer shall remain open for 60 days from the date of opening.

The tenderer shall quote on free delivery to Consignee at NED University of Engineering and Technology, including all Taxes.

Item No.	Description of items/specifications	Unit	Total Qty.	Price in Pak. Rupees			
				Unit Price	Amount	GST Amount	Total amount with GST
1	Software Name						
	ArcGIS Desktop (Advanced) Old Name: Arc/Info Ver. 10.3 Single or Concurrent Use	Nos.	1				
Total Amount							

Note: All quotes must include standard warranty period as mentioned in the specifications or otherwise (i.e. if not mentioned in the specifications).

Signature & Stamp of Tenderer



F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



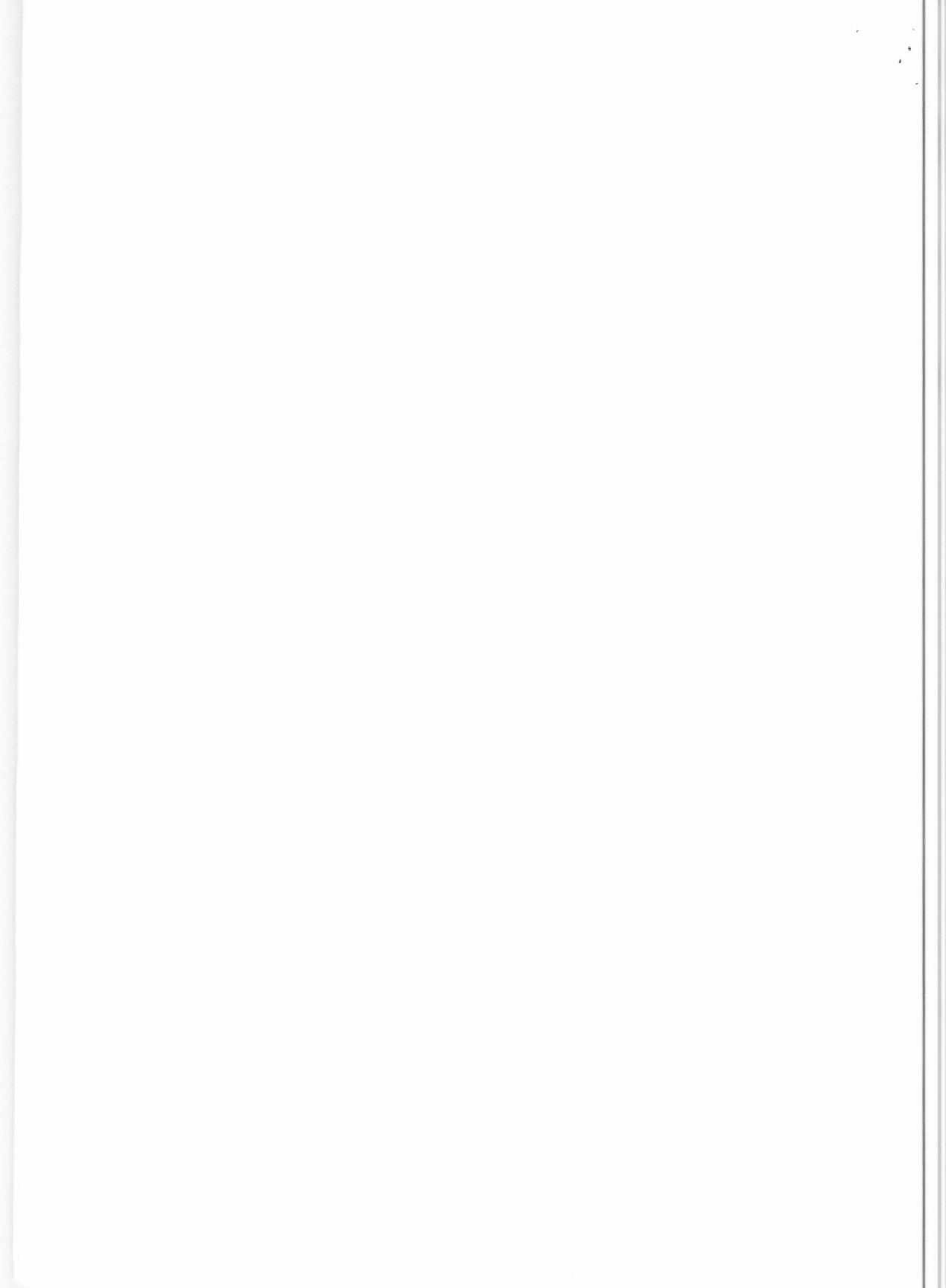
TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Textile Engineering

DOCUMENT NO.: PD (M-III)/NED/Textile/Equip/206/16

PROCUREMENT CELL





Tender No. PD(M-III)/NED/Textile/Equip/206/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

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<u>S. NO.</u>	<u>DESCRIPTION</u>	<u>PAGE NO.</u>
1	Cost Summary	(i)
2	Tender Notice	01
3	Instructions to Tenderers and Terms & Conditions	02
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5	Annexures	
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	C Contract Performance Bond	15
	D Form of the Bid Bond/Earnest Money	16
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**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
- 1.6 The agents must enclose original Proforma Invoice/Fax copy/ Quotation from their Principals otherwise their tender will be rejected.
- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
- 1.8 Bidders must have trained engineers to provide after sales service.
- 1.9 The agent must submit following documents alongwith their offer:
 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alongwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-“C” and shall remain in force for 12 months. The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 **ON-ARRIVAL INSPECTION**

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. WARRANTY

11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.

11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. BREACH OF CONTRACT

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. CONTRACTOR'S DEFAULT-LIABILITY

13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:

13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.

13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.

13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.

15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

NED UNIVERSITY of Engineering & TechnologyUniversity Road, Karachi-75270 Fax: 9926 1255
Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddf@neduet.edu.pk**TENDER NOTICE** No: PC/M-III/2591

Sealed Bids based on "Single Stage One Envelope" are invited from the Manufacturers/Authorized Dealers/Distributors/Suppliers registered with Income Tax and GST Departments for the following Procurements:

① PC(M-III)/NED/HPCC/Software/203/16			
Detail of Work (FOR basis) Procurement of AreGIS Desktop (Advanced) for HPCC			Tender Fee 500/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 10:00 am	06.09.2016 10:30 am

IMPORT OF LABORATORY EQUIPMENT (C&F Basis)

② PC(M-III)/NED/Textile/Equip/206/16			
Department of Textile Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 11:00 am	06.09.2016 11:30 am

③ PC(M-III)/NED/Mechanical/Equip/211/16			
Department of Mechanical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 10:00 am	07.09.2016 10:30 am

④ PC(M-III)/NED/IMD/Equip/210/16			
Department of Industrial & Mfg. Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 11:00 am	07.09.2016 11:30 am

⑤ PC(M-III)/NED/Materials/Equip/208/16			
Department of Materials Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 10:00 am	08.09.2016 10:30 am

⑥ PC(M-III)/NED/Chemical/Equip/207/16			
Department of Chemical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 11:00 am	08.09.2016 11:30 am

⑦ PC(M-III)/NED/MYD/Equip/209/16			
Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

Bid Security @ 2% of the Total Bid Cost of Each Tender Separately in form of Pay Order in favour of Director Finance

Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.

Director Procurement

16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.

16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. **ACCEPTANCE TERMS**

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. **Eligibility Criteria Single Stage One Envelope Procedure / Method**

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. **Evaluation of Bids**

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF TEXTILE ENGINEERING**

Contract No.: PD(M-III)/NED/Textile/Equip/206/16

Letter of Intent No.

- | | | |
|----|--|---|
| 01 | Name(s) and address(es) of the parties to contract | 1 (Name of Local Agent) |
| | | 2 NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee). |
| 02 | Contract Value | The total C&F Karachi price of the equipment to be imported will be -----

----- |
| 03 | Particulars of Stores | -----

----- |
| 04 | Consignee | NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255. |
| 05 | Consignor | Messrs. (Name of Principal)-----

----- |
| 06 | Date of Shipment | Within ----- days of the Receipt of Letter of Credit. |
| 07 | Place of Delivery | Karachi, Pakistan |
| 08 | Delivery Period | Within ----- days of the Receipt of Letter of Credit. |

09	Marks & Packing	The consignment should be marked clearly for the " NED University of Engineering & Technology, Karachi-75270, Pakistan. "
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. ----- -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shipment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from ware house to ware house, i.e. from Messrs. ----- -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

- | | | |
|----|----------------------------------|---|
| 23 | Guarantee/Warranty | Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost. |
| 24 | After Sale Service | Free after sale service for a period of one year including part and labour from the date of installation and operation. |
| 25 | Publications | All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language. |
| 26 | Special Instruction | Shipment through friendly countries carriers only. |
| 27 | Installation/
commissioning | Installtion and commissioning by Messrs. -----

- will be free of cost and will be done within eight weeks of the arrival of the equipment at the University. |
| 28 | Security/
Performance
Bond | The Local Agent -----
----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract. |
| 29 | Familiarization Training | Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment. |

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.
3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

- 30 Inspection The consignment will be subject to inspection by the University.
- 31 Liquidated Damages If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as **Liquidated Damages**, a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by **ten percent (10%)** of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's *commission / Performance Bond*.
- 32 Acceptance of Terms & Conditions of the Contract The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document.

1. Supplier/Contractor

Signature _____

Name _____

For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____

Director (Procurement)

For & on behalf of Vice Chancellor

NED University of Engineering & Technology

Tel #: 99261261-68 Ext. 2291

Fax #: 99261255

Dated: _____

FORM OF TENDER

Contractor/Manufacturer/Supplier

Telegraphic Address:

Telephone Number :

Fax Number :

To,

**The Director (Procurement),
NED University of Engineering &
Technology**

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____.

I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

()

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
AND _____
address or legal title of Contractor (here insert the legal title of _____
are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.

2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
ISSUED DATE. _____
EXPIRY DATE. _____
AMOUNT. _____

To,
The Director (Procurement),
NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder") has submitted its bid dated _____ for NED University of Engineering and Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2% of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____ (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay forthwith to the sum of Rs. _____ (2% of the total estimated price) without any reference to the Bidder on NED University of Engineering & Technology, Karachi first demand in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after having been notified of the acceptance of its Bid by NED University of Engineering & Technology, Karachi failed to execute the CONTRACT or has failed after executing the CONTRACT to submit to NED University of Engineering & Technology, Karachi the performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for submission of the Bids that is and any demand for payment by NED University of Engineering & Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[name of Contractor] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [name of Contractor] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:

Name of Contractor:

Signature:

Signature:

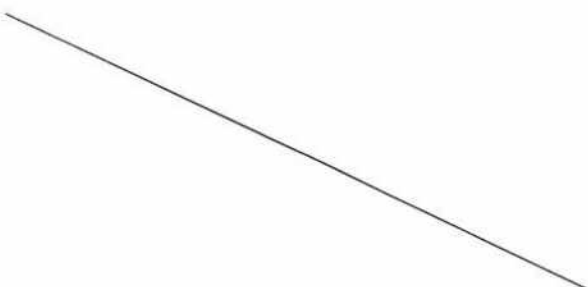
[Seal]

[Seal]

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF TEXTILE ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
11.	<p>Lightfastness and Weatherfastness Testing Instrument (Xenon Arc Lamp) Air cooled, max 2800 W, Total exposure area 1320 cm² Temperature range BST 40-130^oC Simultaneous control of black standard (BST) and test chamber (CHT) range temperature, panel thermometer, humidity range 10-95%. Specimen holders, Absorption filter lanterns, Calibration sensor.</p> <ul style="list-style-type: none"> • Air-cooled xenon lamp with adjustable power range:0.8-2.5 kVA Microprocessor control • Measurement and control of irradiance (in W/m2) and Black Standard Temperature at sample level with XENOSENSIV • Program-assisted self-calibration by master sensor • Temperature control selectable by test chamber (up to 70^oC) or Black Standard Temperature • Measurement and control of relative humidity (range 10-95%) • Ultrasonic humidification system • Water spray system for weathering tests • Integrated water reservoir for storage of ultra-pure water; automatic refill when connected to supply line • Easy access to sample holder, lamp, filter system by the user • Adapter for absorption filter system or non-ageing XENOCHROME filter system • 11 specimen holders • Selectable turning and non-turning mode • Max. sample capacity: approx. 1320 cm2 (205 in2) 	Set.	01		
12.	<p>Over Lock Machine 2-needle over lock safety stitching max sewing speed 7000 rpm. Differential feed ratio gathering (max 1:4) stretching (1:0.6) Automatic lubrication, needle cooler, needle thread heat remover.</p> 	Set.	01		
			Total =		

F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



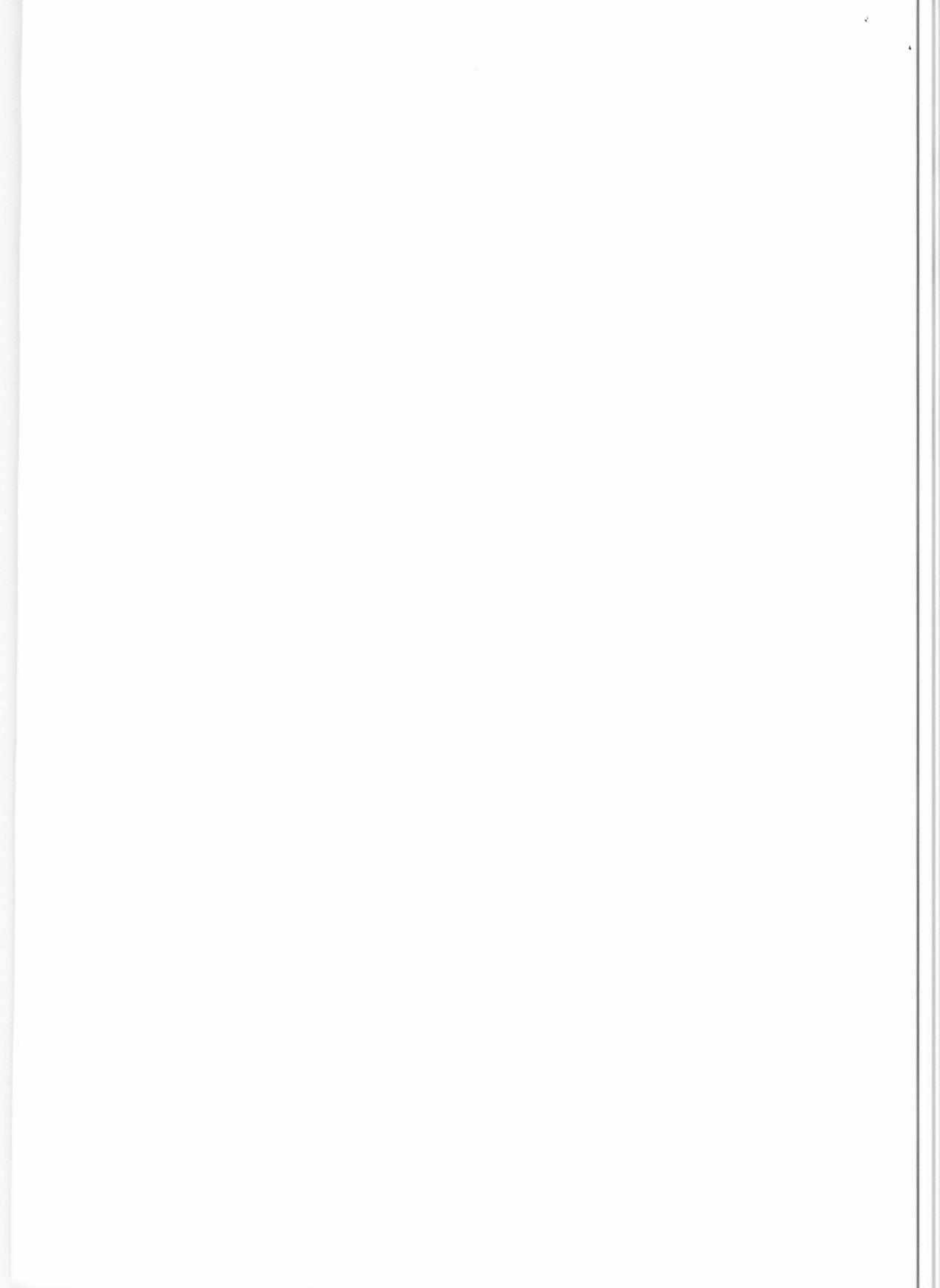
TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Mechanical Engineering

DOCUMENT NO.: PD (M-III)/NED/Mechanical/Equip/211/16

PROCUREMENT CELL





Tender No. PD(M-III)/NED/Mechanical/Equip/211/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

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4	Contract Agreement	07
5	Annexures	
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	E Form of the Integrity Pact	17
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**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
- 1.6 The agents must enclose original Proforma Invoice/Fax copy/ Quotation from their Principals otherwise their tender will be rejected.
- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
- 1.8 Bidders must have trained engineers to provide after sales service.
- 1.9 The agent must submit following documents alongwith their offer:
 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alongwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.

**NED UNIVERSITY of Engineering & Technology**University Road, Karachi-75270 Fax: 9926 1255
Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddf@neduet.edu.pk**TENDER NOTICE** No: **PC/M-III/2591**

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Department of Mechanical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
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Issue / Sale Dates		Submission Deadline	Opening Date
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Department of Chemical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 11:00 am	08.09.2016 11:30 am

⑦ PC(M-III)/NED/MYD/Equip/209/16			
Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

Bid Security @ 2% of the Total Bid Cost of Each Tender Separately in form of Pay Order in favour of Director Finance

Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.*Director Procurement*

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-“C” and shall remain in force for 12 months. The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 **ON-ARRIVAL INSPECTION**

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. WARRANTY

- 11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.
- 11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. BREACH OF CONTRACT

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. CONTRACTOR'S DEFAULT-LIABILITY

- 13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:
- 13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.
- 13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.
- 13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

- 15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.
- 15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

- 16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

- 16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.
- 16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. **ACCEPTANCE TERMS**

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. **Eligibility Criteria – Single Stage One Envelope Procedure / Method**

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. **Evaluation of Bids**

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF MECHANICAL ENGINEERING**

Contract No.: PD(M-III)/NED/Mechanical/Equip/211/16

Letter of Intent No.

- | | | |
|----|--|---|
| 01 | Name(s) and address(es) of the parties to contract | 1 (Name of Local Agent) |
| | | 2 NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee). |
| 02 | Contract Value | The total C&F Karachi price of the equipment to be imported will be -----

----- |
| 03 | Particulars of Stores | -----

----- |
| 04 | Consignee | NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255. |
| 05 | Consignor | Messrs. (Name of Principal)-----

----- |
| 06 | Date of Shipment | Within ----- days of the Receipt of Letter of Credit. |
| 07 | Place of Delivery | Karachi, Pakistan |
| 08 | Delivery Period | Within ----- days of the Receipt of Letter of Credit. |

09	Marks & Packing	The consignment should be marked clearly for the " NED University of Engineering & Technology, Karachi-75270, Pakistan. "
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shipment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from ware house to ware house, i.e. from Messrs. -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

- 23 Guarantee/Warranty Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost.
- 24 After Sale Service Free after sale service for a period of one year including part and labour from the date of installation and operation.
- 25 Publications All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language.
- 26 Special Instruction Shipment through friendly countries carriers only.
- 27 Installation/
commissioning Installtion and commissioning by Messrs. ----

- will be free of cost and will be done within eight weeks of the arrival of the equipment at the University.
- 28 Security/
Performance
Bond The Local Agent -----
----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract.
- 29 Familiarization Training Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment.

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.

2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.

3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

- | | | |
|----|--|---|
| 30 | Inspection | The consignment will be subject to inspection by the University. |
| 31 | Liquidated Damages | If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as Liquidated Damages , a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's commission / Performance Bond. |
| 32 | Acceptance of Terms & Conditions of the Contract | The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document. |

1. Supplier/Contractor

Signature _____
 Name _____
 For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____
Director (Procurement)
 For & on behalf of Vice Chancellor
 NED University of Engineering & Technology
 Tel #: 99261261-68 Ext. 2291
 Fax #: 99261255

Dated: _____

FORM OF TENDER

Contractor/Manufacturer/Supplier

Telegraphic Address:

Telephone Number :

Fax Number :

To,

**The Director (Procurement),
NED University of Engineering &
Technology**

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____. I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

()

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
AND _____
address or legal title of Contractor (here insert the legal title of _____
are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.
2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

ANNEXURE "D"

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
 ISSUED DATE. _____
 EXPIRY DATE. _____
 AMOUNT. _____

To,

The Director (Procurement),
 NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder") has submitted its bid dated _____ for NED University of Engineering and Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2% of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____ (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay forthwith to the sum of Rs. _____ (2% of the total estimated price) without any reference to the Bidder on NED University of Engineering & Technology, Karachi first demand in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after having been notified of the acceptance of its Bid by NED University of Engineering & Technology, Karachi failed to execute the CONTRACT or has failed after executing the CONTRACT to submit to NED University of Engineering & Technology, Karachi the performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for submission of the Bids that is and any demand for payment by NED University of Engineering & Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____
Contract Value: _____
Contract Title: _____

..... [*name of Contractor*] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [*name of Contractor*] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[*name of Contractor*] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*name of Contractor*] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [*name of Contractor*] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [*name of Contractor*] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:
Signature:
[Seal]

Name of Contractor:
Signature:
[Seal]

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF MECHANICAL ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
1.	<p>Hydraulic Trainer</p> <p>Specifications: Laboratory trolley based system with full size circuit building panel. Components should be industry standard and identified by the relevant ISO symbols. Hydraulics power pack and full curriculum to be supplied with the trainer. Compatible with 220/240V 50Hz single phase power supply. Component set should include pressure relief valve, pressure gauge with test point adaptor, flowmeter, double acting cylinder, directional control valves, shut-off valve, check valve, 3-way pressure reducing valve, pilot operated 2 stage pressure relief valve, set of hoses, bi-directional motor, cross tee with test point, accumulator module. The unit should have the following experimental capabilities:</p> <p>(i) Directional control. (ii) Speed control. (iii) Pressure control. (iv) Single-acting cylinder control. (v) Double-acting cylinder control with 4/2 way valve. (vi) Double-acting cylinder control with 4/3 way valve. (vii) Metering "IN". (viii) Metering "OUT". (ix) Weight loading of cylinder. (x) Motor control with speed control in one direction. (xi) Motor control with speed control in both directions.</p>	01	No.		
2.	<p>Air-Conditioning Plant</p> <p>Specifications: A complete air conditioning system providing a comprehensive range of experiments on air-conditioning & ventilation engineering. It should include a conditioning chamber in the control loop to investigate the effect of various climates. The system components (such as radial fan, electrical heater, steam air humidifier and refrigeration set) should conform to those used in commercial systems. The system should be capable of demonstrating all operating states that characterise a complete air conditioning system:</p> <p>(i) Heating of the chamber. (ii) Cooling of the chamber. (iii) Humidification of the air. (iv) Application of the mixing line. (v) Investigations on human comfort.</p>	No.	01		

P.T.O.

3.	<p>Basic Water-Cooling Tower</p> <p>Specifications: Bench top unit to demonstrate operation of a forced draught cooling tower, comprising packed columns, tower base with air circulation, water reservoir with heater and make-up tank, and a control console with recirculation pump and instrumentation (Thermocouple with digital readout for measuring water temperature and wet and dry bulb temperatures, Variable area flow meter with control valve, Inclined tube manometer). Compatible with 220/240V 50Hz single phase power supply. Experimental capabilities:</p> <p>(i) Observation of water flow pattern and distribution with different packing arrangements and with various water and air flow rates. (ii) Performance and flow measurements. (iii) Use of psychrometric charts, application of the steady flow equation, energy balances. (iv) Investigation of the effect of the packing surface area/volume ratio. (v) Investigation of performance for different loads and different temperatures.</p>	No.	01		
4.	<p>Multifunction Process Control Teaching</p> <p>Specifications: A multi-function process control teaching system, capable of demonstrating level, flow, pressure and temperature control loops. The unit should be desk top mounted and include a built in USB computer interface; Reactor vessel with conductivity measurement, pH measurement, pneumatic control valve and electronic console. The unit should have the following process control demonstration capabilities:</p> <p>Process principles Calibration of sensors (via PC software), Inflow and outflow, Outflow control, Direct heating, Indirect heating, Batch and continuous operation, Effect of sensor lag.</p> <p>Measured variables Level - on/off switch (fixed and adjustable hysteresis), Level - proportional pressure sensor; Flow - Proportional turbine sensor; Temperature - on/off switch (fixed hysteresis), Temperature - proportional thermocouple sensors; Static and Differential pressures - proportional sensors; Conductivity - proportional sensor; pH - proportional sensor.</p> <p>Controller types Manual control; Effect of reverse/direct action; PID proportional output with adjustable P, I & D terms; Remote set point control; Ratio, cascade and feedforward with feedback loops.</p>				

Cont....

5.	Belt Friction Test Apparatus to determine the critical revolutions for a number of loads on a rotating shaft: (a) Punctiform mass between two supports, and (b) Two punctiform mass between two supports.	No.	01		
6.	Comprehensive Flow Meter Demonstration A self-contained apparatus to demonstrate the characteristics of flow meters used in measurement of water flow through pipes or open channels. Service module with reservoir, volumetric measuring tank and pump. Reference turbine flowmeter permanently fitted. Metering devices (Venturi, orifice, Pitot, shunt gage, swinging flap, volumetric rotary piston, electromagnetic); Air entrainment facility. Demonstration capabilities: Comparing the application and limitations of various types of flow meters; Assessing the implications of performance, accuracy, convenience, cost and head loss on flow meter selection; Understanding the principles on which different types of flow meters are based; Relating pressure drop across a flow meter to flow rate; Using manometers to measure pressure drop; Investigating the effect of entrained air on flow meter performance; Understanding the application of Bernoulli's Theorem.	No.	01		
		Total =			

F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



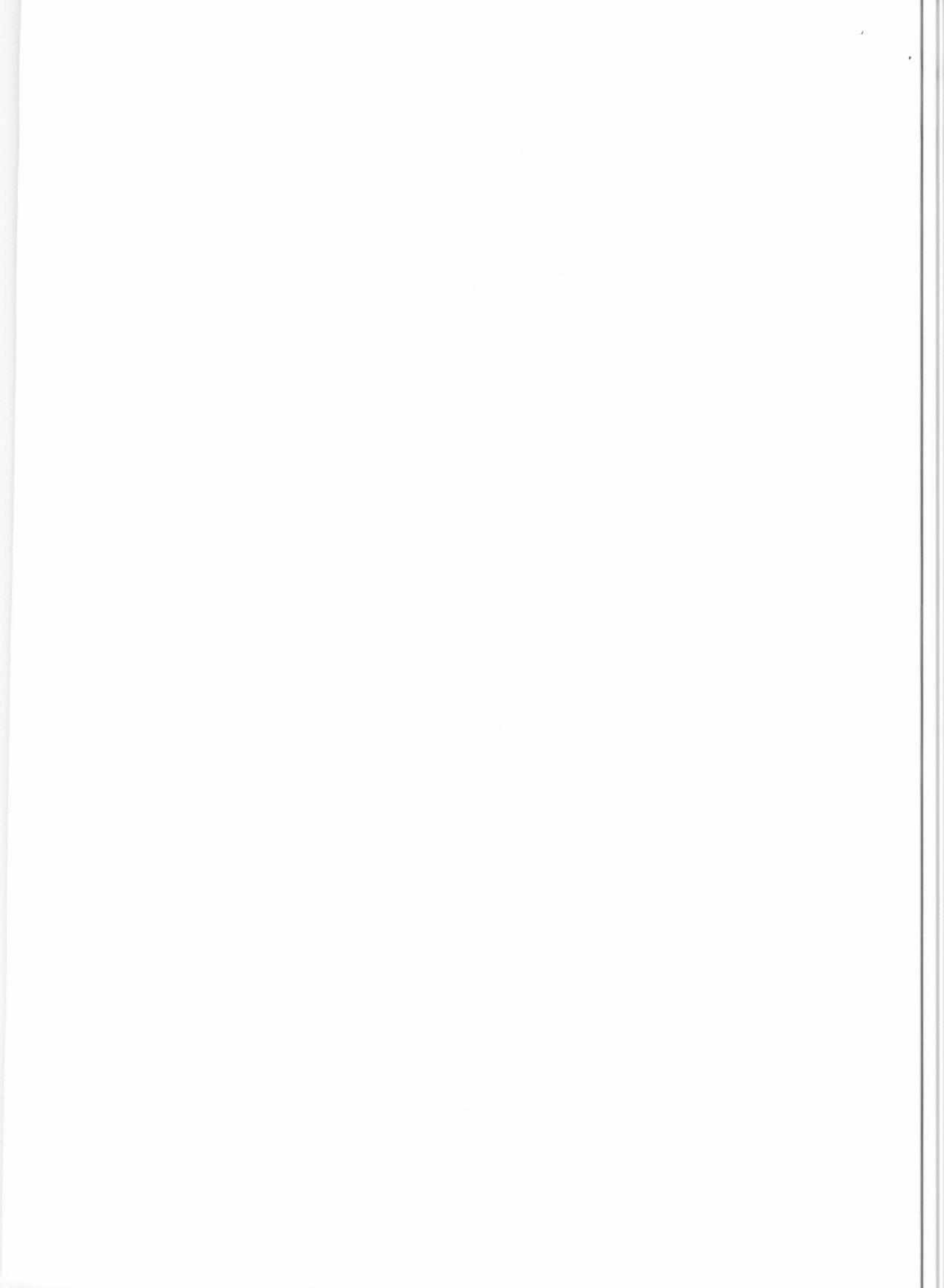
TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Industrial & Manufacturing Engineering

DOCUMENT NO.: PD (M-III)/NED/IMD/Equip/210/16

PROCUREMENT CELL





(i)

Tender No. PD(M-III)/NED/IMD/Equip/210/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

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**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
- 1.6 The agents must enclose original Proforma Invoice/Fax copy/ Quotation from their Principals otherwise their tender will be rejected.
- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
- 1.8 Bidders must have trained engineers to provide after sales service.
- 1.9 The agent must submit following documents alongwith their offer:
 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alongwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.



NED UNIVERSITY of Engineering & Technology

University Road, Karachi-75270 Fax: 9926 1255

Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddff@neduet.edu.pk

TENDER NOTICE No: PC/M-III/2591

Sealed Bids based on "Single Stage One Envelope" are invited from the Manufacturers/Authorized Dealers/Distributors/Suppliers registered with Income Tax and GST Departments for the following Procurements:

(1) PC(M-III)/NED/HPCC/Software/203/16			
Detail of Work (FOR basis) Procurement of AreGIS Desktop (Advanced) for HPCC			Tender Fee 500/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	05.09.2016	06.09.2016 10:00 am	06.09.2016 10:30 am

IMPORT OF LABORATORY EQUIPMENT (C&F Basis)

(2) PC(M-III)/NED/Textile/Equip/206/16			
Department of Textile Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	05.09.2016	06.09.2016 11:00 am	06.09.2016 11:30 am

(3) PC(M-III)/NED/Mechanical/Equip/211/16			
Department of Mechanical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	06.09.2016	07.09.2016 10:00 am	07.09.2016 10:30 am

(4) PC(M-III)/NED/IMD/Equip/210/16			
Department of Industrial & Mfg. Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	06.09.2016	07.09.2016 11:00 am	07.09.2016 11:30 am

(5) PC(M-III)/NED/Materials/Equip/208/16			
Department of Materials Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	07.09.2016	08.09.2016 10:00 am	08.09.2016 10:30 am

(6) PC(M-III)/NED/Chemical/Equip/207/16			
Department of Chemical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	07.09.2016	08.09.2016 11:00 am	08.09.2016 11:30 am

(7) PC(M-III)/NED/MYD/Equip/209/16			
Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from	to		
19.08.2016	08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

Bid Security @ 2% of the Total Bid Cost of Each Tender Separately in form of Pay Order in favour of Director Finance

Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.

Director Procurement

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-“C” and shall remain in force for 12 months. The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 **ON-ARRIVAL INSPECTION**

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. WARRANTY

11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.

11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. BREACH OF CONTRACT

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. CONTRACTOR'S DEFAULT-LIABILITY

13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:

13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.

13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.

13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.

15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

- 16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.
- 16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. **ACCEPTANCE TERMS**

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. **Eligibility Criteria – Single Stage One Envelope Procedure / Method**

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. **Evaluation of Bids**

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF INDUSTRIAL & MANUFACTURING ENGINEERING**

Contract No.: PD(M-III)/NED/IMD/Equip/210/16

Letter of Intent No.

- | | | |
|----|--|---|
| 01 | Name(s) and address(es) of the parties to contract | 1 (Name of Local Agent)

2 NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee). |
| 02 | Contract Value | The total C&F Karachi price of the equipment to be imported will be -----

----- |
| 03 | Particulars of Stores | -----

----- |
| 04 | Consignee | NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255. |
| 05 | Consignor | Messrs. (Name of Principal)-----

----- |
| 06 | Date of Shipment | Within ----- days of the Receipt of Letter of Credit. |
| 07 | Place of Delivery | Karachi, Pakistan |
| 08 | Delivery Period | Within ----- days of the Receipt of Letter of Credit. |

09	Marks & Packing	The consignment should be marked clearly for the " NED University of Engineering & Technology, Karachi-75270, Pakistan. "
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shipment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from ware house to ware house, i.e. from Messrs. -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

- | | | |
|----|----------------------------------|--|
| 23 | Guarantee/Warranty | Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost. |
| 24 | After Sale Service | Free after sale service for a period of one year including part and labour from the date of installation and operation. |
| 25 | Publications | All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language. |
| 26 | Special Instruction | Shipment through friendly countries carriers only. |
| 27 | Installation/
commissioning | <p>Installtion and commissioning by Messrs. ----</p> <p>-----</p> <p>- will be free of cost and will be done within eight weeks of the arrival of the equipment at the University.</p> |
| 28 | Security/
Performance
Bond | <p>The Local Agent -----</p> <p>----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract.</p> |
| 29 | Familiarization Training | Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment. |

- | | | |
|----|--|---|
| 30 | Inspection | The consignment will be subject to inspection by the University. |
| 31 | Liquidated Damages | If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as Liquidated Damages , a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's commission / Performance Bond. |
| 32 | Acceptance of Terms & Conditions of the Contract | The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document. |

1. Supplier/Contractor

Signature _____

Name _____

For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____

Director (Procurement)

For & on behalf of Vice Chancellor

NED University of Engineering & Technology

Tel #: 99261261-68 Ext. 2291

Fax #: 99261255

Dated: _____

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.
3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

FORM OF TENDER

Contractor/Manufacturer/Supplier _____
 Telegraphic Address: _____
 Telephone Number : _____
 Fax Number : _____

To,
The Director (Procurement),
NED University of Engineering &
Technology

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____. I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

(_____)

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
AND _____
address or legal title of Contractor (here insert the legal title of _____
are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.
2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
 ISSUED DATE. _____
 EXPIRY DATE. _____
 AMOUNT. _____

To,
 The Director (Procurement),
 NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder") has submitted its bid dated _____ for NED University of Engineering and Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2% of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____ (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay forthwith to the sum of Rs. _____ (2% of the total estimated price) without any reference to the Bidder on NED University of Engineering & Technology, Karachi first demand in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after having been notified of the acceptance of its Bid by NED University of Engineering & Technology, Karachi failed to execute the CONTRACT or has failed after executing the CONTRACT to submit to NED University of Engineering & Technology, Karachi the performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for submission of the Bids that is and any demand for payment by NED University of Engineering & Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY
THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH
RS. 10.00 MILLION OR MORE**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [*name of Contractor*] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [*name of Contractor*] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[*name of Contractor*] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*name of Contractor*] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [*name of Contractor*] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [*name of Contractor*] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:

Name of Contractor:

Signature:

Signature:

[Seal]

[Seal]

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF INDUSTRIAL & MANUFACTURING ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
1.	Vacuum Casting System <ul style="list-style-type: none"> • Minimum Mold Size (500 x 500 x 500 mm) • Part Weight (at least 1000 g up to 5000 g) • 2 x Ovens (Compatible with casting chamber) for resin and mold tempering • PC for each furnace • Cups and Funnels (100 Each) • Tool Set • Maintenance Kit • Silicon for Molds (Minimum 25 Kg) • Casting Resins (Minimum total 50 Kg, variety should include flexible to rigid and colored to transparent) • Material/Mold Handling Equipment • Training (Operation/Maintenance/Troubleshooting) of the Equipment at Manufacturer's Site • Installation of Equipment • Minimum One year Warranty. 	Set.	01		
2.	Dimension 3D Printer <ul style="list-style-type: none"> • Minimum Build Envelope 200 x 200 x 300 mm • Compatible with local power sources (220-240V, 50-60 Hz) • 10 x Model Material (ABS) cartridge • 6 x Water Soluble Support cartridge • 4 x Plastic modeling Bases (Boxes) • Support Removal System and Tools • 12 x Pairs of model and support tips • Startup Kit and Educational Bonus Package • System Software • Installation and training of equipment • Minimum One year Warranty 	Set.	01		
			Total =		

F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Materials Engineering

DOCUMENT NO.: PD (M-III)/NED/Materials/Equip/208/16

PROCUREMENT CELL

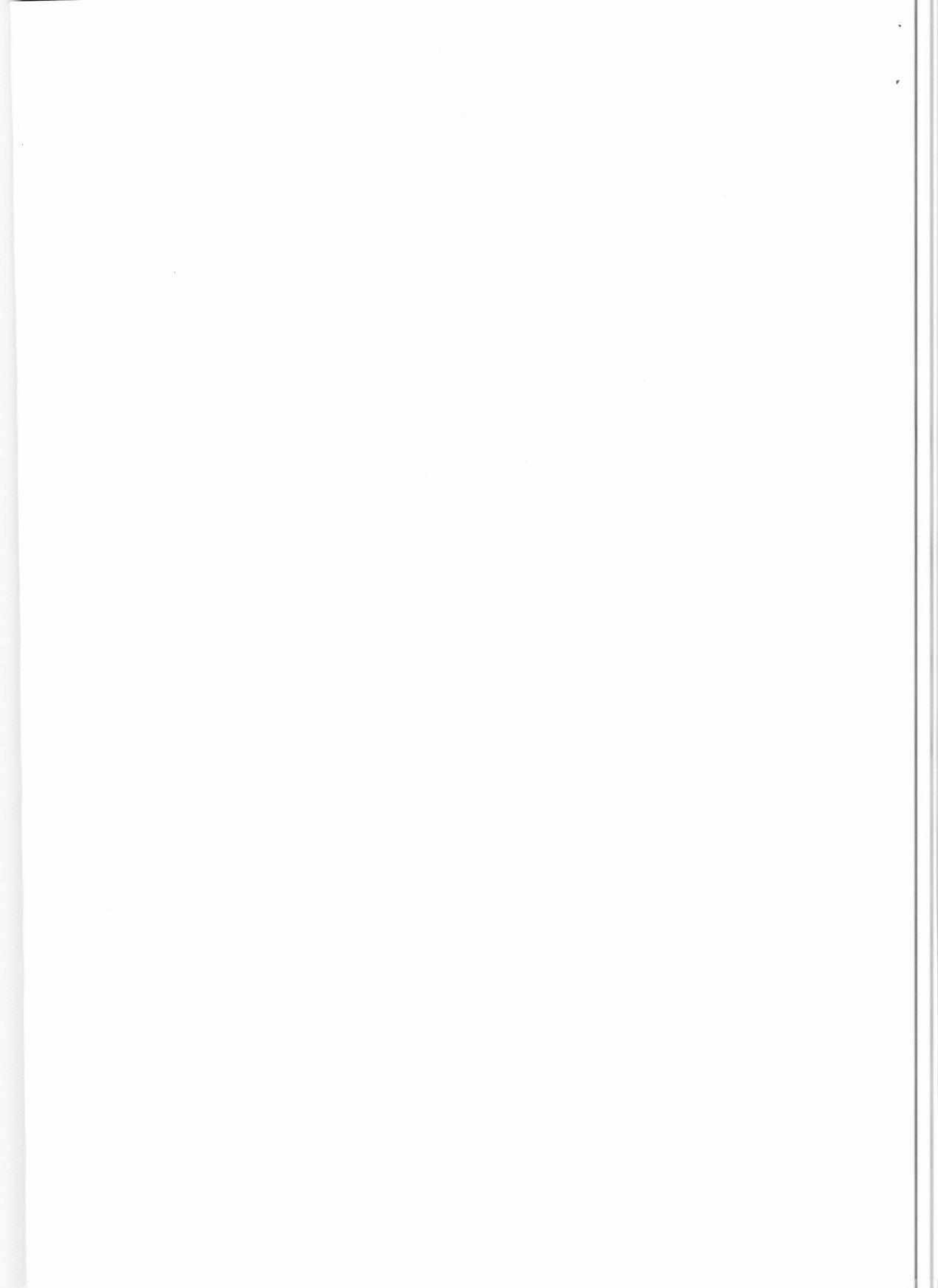


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Tender No. PD(M-III)/NED/Materials/Equip/208/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

NED UNIVERSITY of Engineering & Technology

University Road, Karachi-75270 Fax: 9926 1255

Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddf@neduet.edu.pk

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Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

**Bid Security @ 2% of the Total Bid Cost of Each Tender
Separately in form of Pay Order in favour of Director Finance**

Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.

Director Procurement

**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
- 1.6 The agents must enclose original Proforma Invoice/Fax copy/ Quotation from their Principals otherwise their tender will be rejected.
- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
- 1.8 Bidders must have trained engineers to provide after sales service.
- 1.9 The agent must submit following documents alongwith their offer:
 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alongwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-"C" and shall remain in force for 12 months. The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 ON-ARRIVAL INSPECTION

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. WARRANTY

11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.

11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. BREACH OF CONTRACT

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. CONTRACTOR'S DEFAULT-LIABILITY

13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:

13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.

13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.

13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.

15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

- 16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.
- 16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. ACCEPTANCE TERMS

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. Eligibility Criteria Single Stage One Envelope Procedure / Method

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. Evaluation of Bids

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF MATERIALS ENGINEERING**

Contract No.: PD(M-III)/NED/Materials/Equip/208/16

Letter of Intent No.

- 01 Name(s) and address(es) of the parties to contract **1** (Name of Local Agent)
- 2** **NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee).**
- 02 Contract Value The total C&F Karachi price of the equipment to be imported will be -----

- 03 Particulars of Stores -----

- 04 Consignee NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255.
- 05 Consignor Messrs. (Name of Principal)-----

- 06 Date of Shipment Within ----- days of the Receipt of Letter of Credit.
- 07 Place of Delivery Karachi, Pakistan
- 08 Delivery Period Within ----- days of the Receipt of Letter of Credit.

09	Marks & Packing	The consignment should be marked clearly for the "NED University of Engineering & Technology, Karachi-75270, Pakistan."
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shipment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from ware house to ware house, i.e. from Messrs. ----- -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

- | | | |
|----|----------------------------------|---|
| 23 | Guarantee/Warranty | Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost. |
| 24 | After Sale Service | Free after sale service for a period of one year including part and labour from the date of installation and operation. |
| 25 | Publications | All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language. |
| 26 | Special Instruction | Shipment through friendly countries carriers only. |
| 27 | Installation/
commissioning | Installtion and commissioning by Messrs. ----

- will be free of cost and will be done within eight weeks of the arrival of the equipment at the University. |
| 28 | Security/
Performance
Bond | The Local Agent -----
----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract. |
| 29 | Familiarization Training | Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment. |

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.

2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.

3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

- | | | |
|----|--|---|
| 30 | Inspection | The consignment will be subject to inspection by the University. |
| 31 | Liquidated Damages | If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as Liquidated Damages , a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's <i>commission / Performance Bond</i> . |
| 32 | Acceptance of Terms & Conditions of the Contract | The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document. |

1. Supplier/Contractor

Signature _____

Name _____

For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____

Director (Procurement)

For & on behalf of Vice Chancellor

NED University of Engineering & Technology

Tel #: 99261261-68 Ext. 2291

Fax #: 99261255

Dated: _____

FORM OF TENDER

Contractor/Manufacturer/Supplier

Telegraphic Address:

Telephone Number :

Fax Number :

To,

**The Director (Procurement),
NED University of Engineering &
Technology**

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____.

I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

(_____)

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
AND _____
address or legal title of Contractor (here insert the legal title of _____
are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.
2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
 ISSUED DATE. _____
 EXPIRY DATE. _____
 AMOUNT. _____

To,
 The Director (Procurement),
 NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder") has submitted its bid dated _____ for NED University of Engineering and Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2% of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____ (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay forthwith to the sum of Rs. _____ (2% of the total estimated price) without any reference to the Bidder on NED University of Engineering & Technology, Karachi first demand in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after having been notified of the acceptance of its Bid by NED University of Engineering & Technology, Karachi failed to execute the CONTRACT or has failed after executing the CONTRACT to submit to NED University of Engineering & Technology, Karachi the performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for submission of the Bids that is and any demand for payment by NED University of Engineering & Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY
THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH
RS. 10.00 MILLION OR MORE**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [*name of Contractor*] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [*name of Contractor*] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[*name of Contractor*] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*name of Contractor*] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [*name of Contractor*] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [*name of Contractor*] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:

Name of Contractor:

Signature:

Signature:

[Seal]

[Seal]

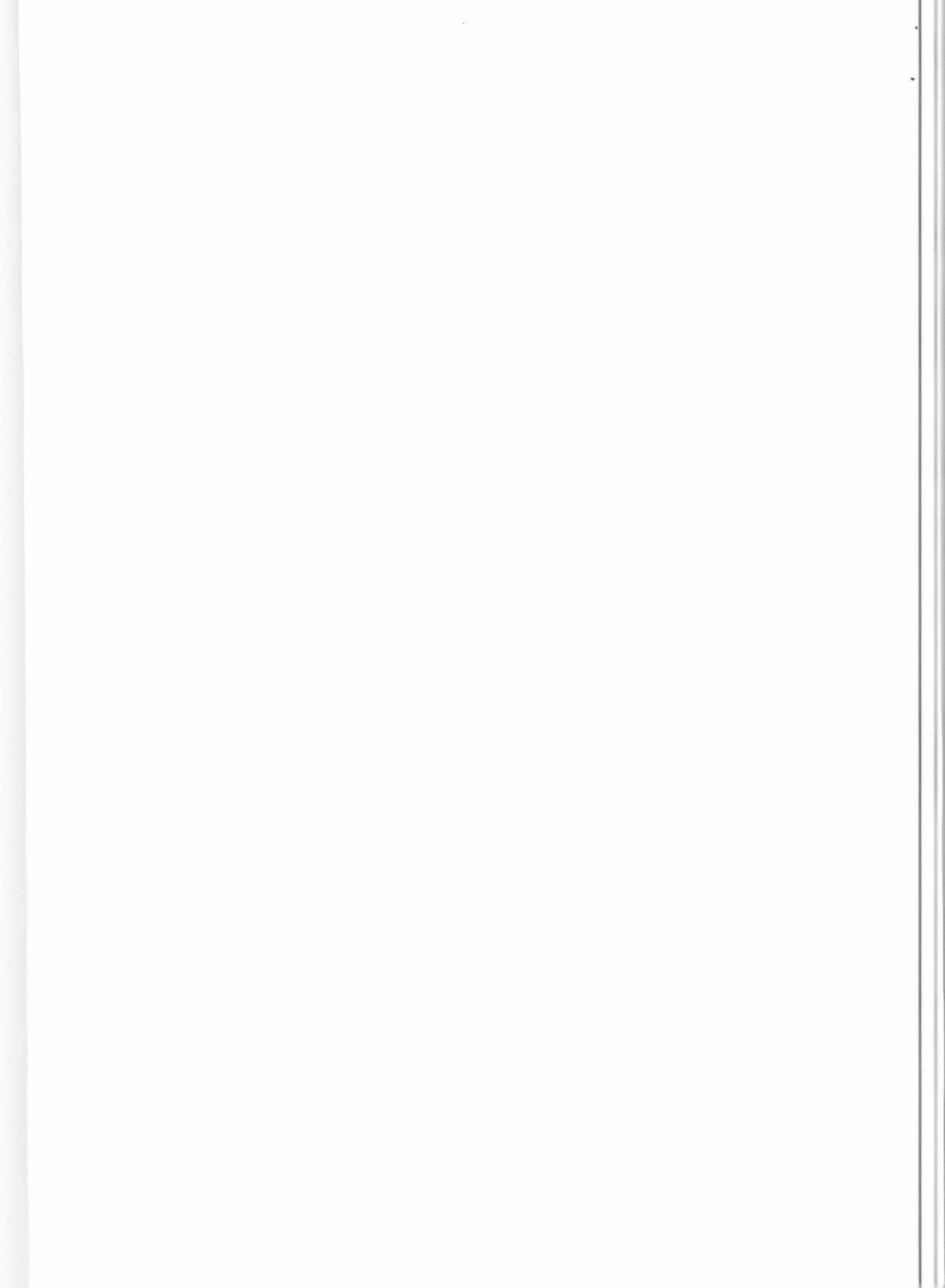
NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF MATERIALS ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
10.	<p>Alloy/Materials Preparation Lab:</p> <p>10.1 Induction melting Furnace</p> <ul style="list-style-type: none"> • Capacity = 5 to 10 Kg. • Frequency : Medium or High • Vacuum level : 10^{-3} Pa to 10^{-4} Pa or as per furnace Specification and complete Vacuum Units accessories • High heating temperature = approx. 1700°C-1800°C • Fast smelting speed, feeding (feed adding box system), sampling and monitoring system. • Suitable for smelting of ferrous and nonferrous materials. • Melting Crucible and mold: good quality graphite and copper (05 quantity each). • Chiller, Argon filled gas cylinder, temperature measuring instrument and allied accessories required for installation, commissioning and machine operations. 	Set.	01		
12.	<p>12.1 Variable Sample Magnetometer</p> <p>Measure the scope of the magnetic moment: 10^{-2}emu-300emu (Sensitivity:5×10^{-5}emu).</p> <p>Relative accuracy (30emu): better than $\pm 1\%$ Repeatability (30emu): better than $\pm 1\%$ Stability (30emu) Preheating 24 hours, 24 hours of continuous work superior $\pm 1\%$ Temperature range: from -196°C to 900°C. The magnetic Pole pitch for a fixed spacing is 40 mm, the pole face diameter is 60 mm. Magnetic field: supplied by the electromagnet, from 0 to 3.5 T Materials to be measured: Diamagnetic, Paramagnetic, Ferromagnetic, Ferrimagnetic, Antiferromagnetic materials and Anisotropic materials Particulate and continuous magnetic recording materials and GMR, CMR, exchange biased and spin valve materials Magnetic-optical materials Bulk materials, powders, thin films, single crystals, and liquids.</p>	Set.	01		
	<p>12.2 Magnetiser-Demagnetiser</p> <p>Input voltage 220V\pm20V,20A Output voltage 500-1200V Biggest pulse current 15000A Magnetizes the cycle 4-6Second</p>	Set.	01		

	Electric capacity 4000uF Biggest stored energy 2881J Electric circuit control SCR (Silicon control trigger circuit)				
	12.3 Four Probe Resistivity Measurement Setup Probes Arrangements Sample Oven (0-200°C) Multirange Digital Voltmeter Range X1 (0-200mV) & X10 (0-2V) Resolution 100mV at XI range Accuracy $\pm 0.1\%$ of reading ± 1 digit Stability Within ± 1 digit Input Impedance 1MW Display $3\frac{1}{2}$ digit, 7 segment LED (12.5mm height) with auto polarity and decimal indication Overload Indicator Sign of 1 on the left & blanking of others digits Constant Current Generator Open Circuit Voltage 18V Current Range 0-20mA Resolution 10mA Accuracy $\pm 0.25\%$ or ± 1 digit Stability Within ± 1 digit Load regulation 0.03% for 0 to full load Line regulation 0.05% for 10% change Oven Power Supply Provision for low and high rates of heating	Set.	02		
	12.4 Thermal Conductivity measurement Biggest test pieces size: Length * width * thick: 300 * 300 * 50mm Test sample size: 300mm * 300mm * ϕ (5-30) mm or 100mm * 100mm * ϕ (5-30) mm Accuracy of temperature control: 0.05 °C Resolution: 0.01 °C Maximum hot plate set temperature: 80 °C Minimum cooling-plate set temperature: room temperature Accuracy of measurement: 3% Coefficient of thermal conductivity measuring range: 0.010 ~ 5.000 w (k.m) Power supply: AC 220V	Set.	01		
	12.5 Equipment for controlled atmosphere of Lab	Set.	01		
7	Accessories for Electron Microscope 7.1 Wehnelt Assembly for Quantna 200 Fei 7.2 Tungsten Filaments 7.3 Sample Stubs 7.4 Double Sided Tape	Nos. Pkts. Pkts. Nos.	02 05 02 03		
		Total =			



F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Chemical Engineering

DOCUMENT NO.: PD (M-III)/NED/Chemical/Equip/207/16

PROCUREMENT CELL

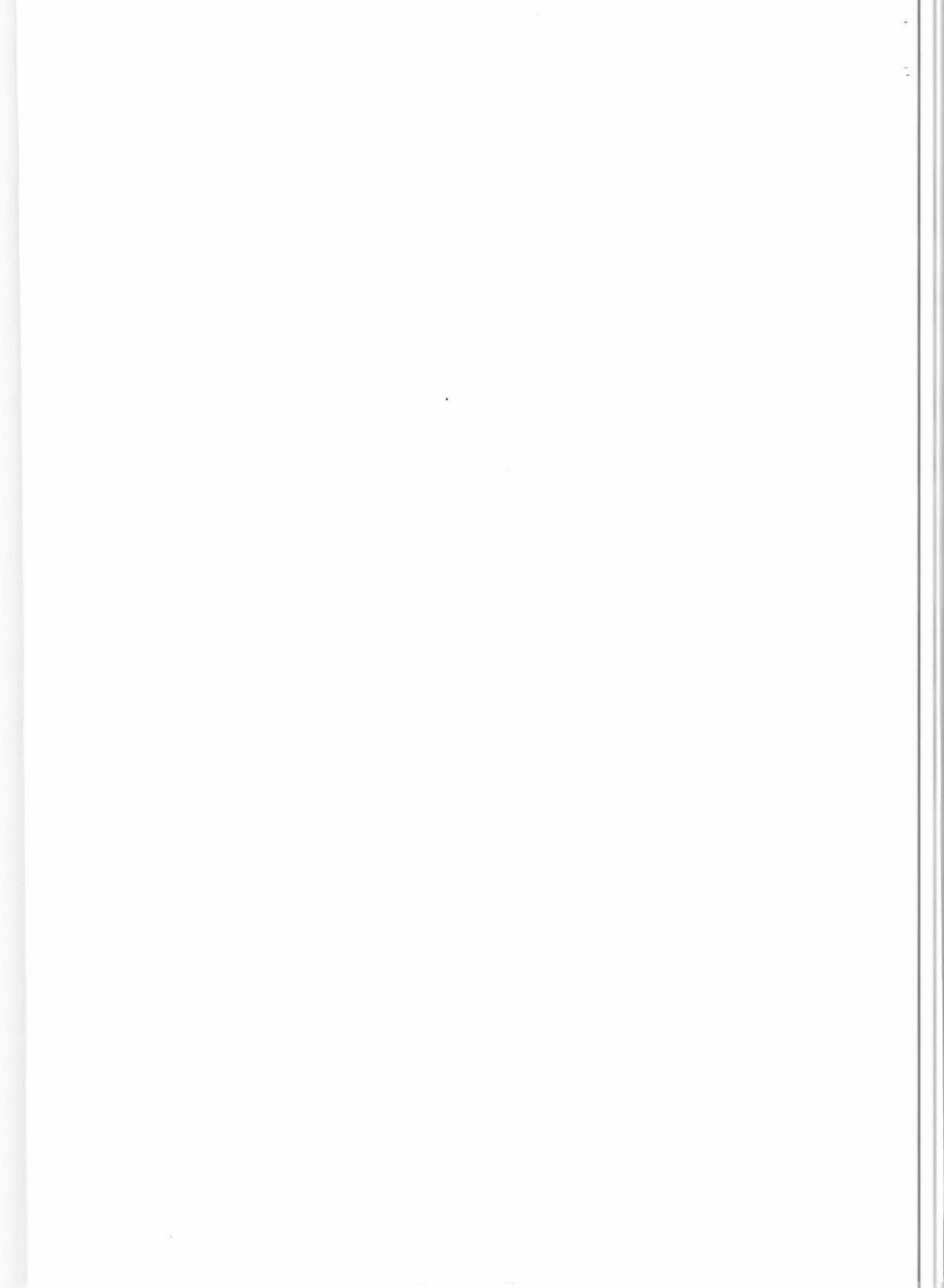


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Tender No. PD(M-III)/NED/Chemical/Equip/207/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
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- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
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 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alogwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.

NED UNIVERSITY of Engineering & Technology
 University Road, Karachi-75270 Fax: 9926 1255
 Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddff@neduet.edu.pk

TENDER NOTICE No: **PC/M-III/2591**

Sealed Bids based on "Single Stage One Envelope" are invited from the Manufacturers/Authorized Dealers/Distributors/Suppliers registered with Income Tax and GST Departments for the following Procurements:

① PC(M-III)/NED/HPCC/Software/203/16			
Detail of Work (FOR basis) Procurement of AreGIS Desktop (Advanced) for HPCC			Tender Fee 500/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 10:00 am	06.09.2016 10:30 am

IMPORT OF LABORATORY EQUIPMENT (C&F Basis)

② PC(M-III)/NED/Textile/Equip/206/16			
Department of Textile Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 11:00 am	06.09.2016 11:30 am

③ PC(M-III)/NED/Mechanical/Equip/211/16			
Department of Mechanical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 10:00 am	07.09.2016 10:30 am

④ PC(M-III)/NED/IMD/Equip/210/16			
Department of Industrial & Mfg. Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 11:00 am	07.09.2016 11:30 am

⑤ PC(M-III)/NED/Materials/Equip/208/16			
Department of Materials Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 10:00 am	08.09.2016 10:30 am

⑥ PC(M-III)/NED/Chemical/Equip/207/16			
Department of Chemical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 11:00 am	08.09.2016 11:30 am

⑦ PC(M-III)/NED/MYD/Equip/209/16			
Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

Bid Security @ 2% of the Total Bid Cost of Each Tender Separately in form of Pay Order in favour of Director Finance

Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasindh.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.

Director Procurement

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-“C” and shall remain in force for 12 months, The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 **ON-ARRIVAL INSPECTION**

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. WARRANTY

11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.

11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. BREACH OF CONTRACT

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. CONTRACTOR'S DEFAULT-LIABILITY

13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:

13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.

13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.

13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.

15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

- 16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.
- 16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. **ACCEPTANCE TERMS**

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. **Eligibility Criteria Single Stage One Envelope Procedure / Method**

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. **Evaluation of Bids**

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF CHEMICAL ENGINEERING**

Contract No.: PD(M-III)/NED/Chemical/Equip/207/16

Letter of Intent No.

- | | | |
|----|--|---|
| 01 | Name(s) and address(es) of the parties to contract | 1 (Name of Local Agent)

2 NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee). |
| 02 | Contract Value | The total C&F Karachi price of the equipment to be imported will be -----

----- |
| 03 | Particulars of Stores | -----

----- |
| 04 | Consignee | NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255. |
| 05 | Consignor | Messrs. (Name of Principal)-----

----- |
| 06 | Date of Shipment | Within ----- days of the Receipt of Letter of Credit. |
| 07 | Place of Delivery | Karachi, Pakistan |
| 08 | Delivery Period | Within ----- days of the Receipt of Letter of Credit. |

09	Marks & Packing	The consignment should be marked clearly for the " NED University of Engineering & Technology, Karachi-75270, Pakistan. "
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shipment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from warehouse to warehouse, i.e. from Messrs. -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

23	Guarantee/Warranty	Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost.
24	After Sale Service	Free after sale service for a period of one year including part and labour from the date of installation and operation.
25	Publications	All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language.
26	Special Instruction	Shipment through friendly countries carriers only.
27	Installation/ commissioning	Installtion and commissioning by Messrs. ---- ----- - will be free of cost and will be done within eight weeks of the arrival of the equipment at the University.
28	Security/ Performance Bond	The Local Agent ----- ----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract.
29	Familiarization Training	Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment.

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.
3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

- | | | |
|----|--|---|
| 30 | Inspection | The consignment will be subject to inspection by the University. |
| 31 | Liquidated Damages | If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as Liquidated Damages , a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's <i>commission / Performance Bond</i> |
| 32 | Acceptance of Terms & Conditions of the Contract | The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document. |

1. Supplier/Contractor

Signature _____
 Name _____
 For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____
Director (Procurement)
 For & on behalf of Vice Chancellor
 NED University of Engineering & Technology
 Tel #: 99261261-68 Ext. 2291
 Fax #: 99261255
 Dated: _____

FORM OF TENDER

Contractor/Manufacturer/Supplier

Telegraphic Address: _____

Telephone Number : _____

Fax Number : _____

To,

**The Director (Procurement),
NED University of Engineering &
Technology**

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____. I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

(_____)

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
 AND _____
 address or legal title of Contractor (here insert the legal title of _____
 are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.
2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

ANNEXURE "D"

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
 ISSUED DATE. _____
 EXPIRY DATE. _____
 AMOUNT. _____

To,
 The Director (Procurement),
 NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder") has submitted its bid dated _____ for NED University of Engineering and Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2% of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____ (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay forthwith to the sum of Rs. _____ (2% of the total estimated price) without any reference to the Bidder on NED University of Engineering & Technology, Karachi first demand in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after having been notified of the acceptance of its Bid by NED University of Engineering & Technology, Karachi failed to execute the CONTRACT or has failed after executing the CONTRACT to submit to NED University of Engineering & Technology, Karachi the performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for submission of the Bids that is and any demand for payment by NED University of Engineering & Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____
Contract Value: _____
Contract Title: _____

..... [*name of Contractor*] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [*name of Contractor*] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[*name of Contractor*] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*name of Contractor*] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [*name of Contractor*] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [*name of Contractor*] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:
Signature:
[Seal]

Name of Contractor:
Signature:
[Seal]

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF CHEMICAL ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
1.	<p>Thermal Conductivity of Liquid & Gases:</p> <p>Thermal conductivity of liquid & gases This trainer is comprises a heated plug and water cooled jacket with a small radial clearance in which gas or liquid samples is tested. The thin laminar film prevents natural convection in the fluid is under test. Experiential Capabilities:-</p> <ol style="list-style-type: none"> 1. Calibration of the unit to establish the effect of incidental heat transfer. 2. Determination of the thermal conductivity of any suitable gas or liquid compatible with the materials of construction. <ul style="list-style-type: none"> • Mean diameter: 39 mm • Effective length: 110 mm • Radial clearance: 0.3 mm 	01	No.		
2.	<p>Atomic Absorption Flame Emission Spectrophotometer (Double Beam) PC controlled: For 220 V 50Hz</p> <p>Specifications: Wavelength range : 185.0 to 900.0 nm Monochromator : Aberration-corrected Czerny-Turner mounting Bandwidth : 0.2, 0.7, 1.3, 2.0L nm (4-step automatic switching) Detector : Photomultiplier tube Optics : Flame : optical double beam Furnace : high-throughput single beam Background correction: BGC-SR (high-speed self-reversal method) BGC-D2 (D2 lamp method) Number of HC lamps ; 6-lamp turret, 2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement) Lamp mode : EMISSION, NON-BGC, BGC-D2, BGC-SR Data processing : EMISSION, NON-BGC, BGC-D2, BGC-SR Parameter setting : Wizard method Measurement mode : Flame continuous method, flame single drop method, Furnace method Concentration computation mode : Calibration curve method (select primary, secondary, tertiary) Standard addition method, simple standard addition method (primary expression)</p>	No.	01		

P.T.O.

<p>Baseline correction: Automatic Tabular data processing</p> <p>Flame (continuous method, single drop method) Burner unit Type : Air-cooled pre-mix type Flame types : Air-C₂H₂, N₂O-C₂H₂ Burner head : Titanium 10 cm slot (5 cm titanium slot for N₂O-C₂H₂ flame available as an option) Nebulizer: Pt-Ir capillary, PTFE orifice, Ceramic impact bead (capable of handling hydrofluoric acid) Chamber : Engineering plastics Angle adjustment: 0 to 90°, Angle adjustment is not possible Gas control Flow rate control: Automatic fuel gas flow rate setting (0.1 L/min step). Automatic search of optimum gas flow rate Dosing hose and hose clip, Sample table, Tools and Fuses each are included.</p> <p><u>ESSENTIAL ACCESSORIES</u> Auto Atomizer Changer Required to add GFA-7000 to AA-7000F to conduct furnace analysis. Permits automatic burner position setting for flame analysis with AA-7000F. Air Compressor, 0.2LE-6 0S 100V, 50/60Hz Includes Japanese/English instruction manuals Pressure Regulator for C₂H₂</p> <p><u>GRAPHITE FURNACE WITH NECESSARY ACCESSORIES:</u> Specifications Graphite furnace atomizer Control: RS-232C communication control from AA unit Heating temperature range : Ambient to 3,000 °C Heating control system Drying: digital current control (with automatic temperature calibration function). Ashing, Atomization: digital temperature control via optical sensor Setting heating conditions: Maximum 20 stages. Optimum temperature program search support function Heating mode: RAMP/STEP Inner gas type: dual automatic switching type. High-sensitivity mode setting. Enrichment in furnace: maximum 20 times. Inner gas Pressure Regulator for O₂ & Ar High-density graphite tube Especially effective for etc.</p>				
---	--	--	--	--

Cont....

Cooling Water Circulator

Cooling water circulator

This unit is necessary when there are no waterworks available, or the temperature of tap exceeds 30°C.

Operational Temperature range: -10 to + 40°C.

To use in areas with other voltages than 100V, prepare a separate step-down transformer.

Transformer, B-5 for 220-240V region

Cooler connector kit

AUTO SAMPLER

200V with Instruction Manual

Required for automatic flame measurements.

Extension unit for furnace analysis

Set of accessories for elements at high temp.

High Temperature Burner Head (Titanium) necessary when N₂O-C₂H₂ gas is used.

Pressure Regulator for N₂O

HOLLOW CATHODE LAMPS

Silver, Ag

Aluminum, Al

Arsenic, As

Calcium, Ca

Cadmium, Cd

Cobalt, Co

Chromium, Cr

Copper, Cu

Iron, Fe

Mercury, Hg

Potassium, K

Magnesium, Mg

Manganese, Mn

Molybdenum, Mo

Sodium, Na

Nickel, Ni

Lead, Pb

Zinc, Zn

Hydride Vapor Generator

Hydride Vapor Generator 230V, CE Marking

Specifications

Measurement method: continuous flow

Sample consumption: 0 to 7 mL/min, variable

Reagent consumption: 0 to 2.5 mL/min, variable

Atomizer: heated absorption cell (heated by Air-C₂H₂ flame in standard system)

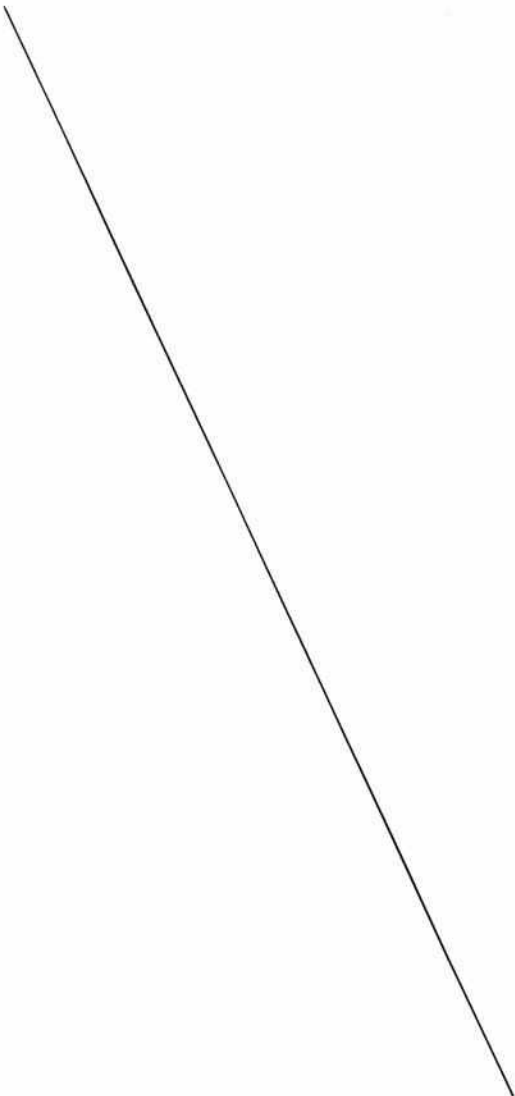
Power requirements: 100, 115, 220, 240 VAC, 30 VA, 50/60 Hz

Dimensions: 340 W x 220 D x 200 H mm

Specifications

Nozzle Assy, HVG

Necessary when HVG-1 is connected with Auto Sampler

<p><u>Mercury Vapor Analyzer Comprising of:</u> Mercury Vaporizer Unit 100V CE marking Cell Holder Assy Gas Flow cell Transformer Gas Cylinders with Gas for C2H2 Gas Cylinders with Gas for N2O Gas Cylinders with Gas for Ar Personal Computer Printer Ventilation Ducting with Blower including Fitting and pipes, Gas Control System Standard Calibration Solution for Hollow Cathode Lamps For all above elements</p> 				
	Total =			

F/QSP 09/06/01

ISSUED ON: _____

ISSUED TO: _____

**NED UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, KARACHI**



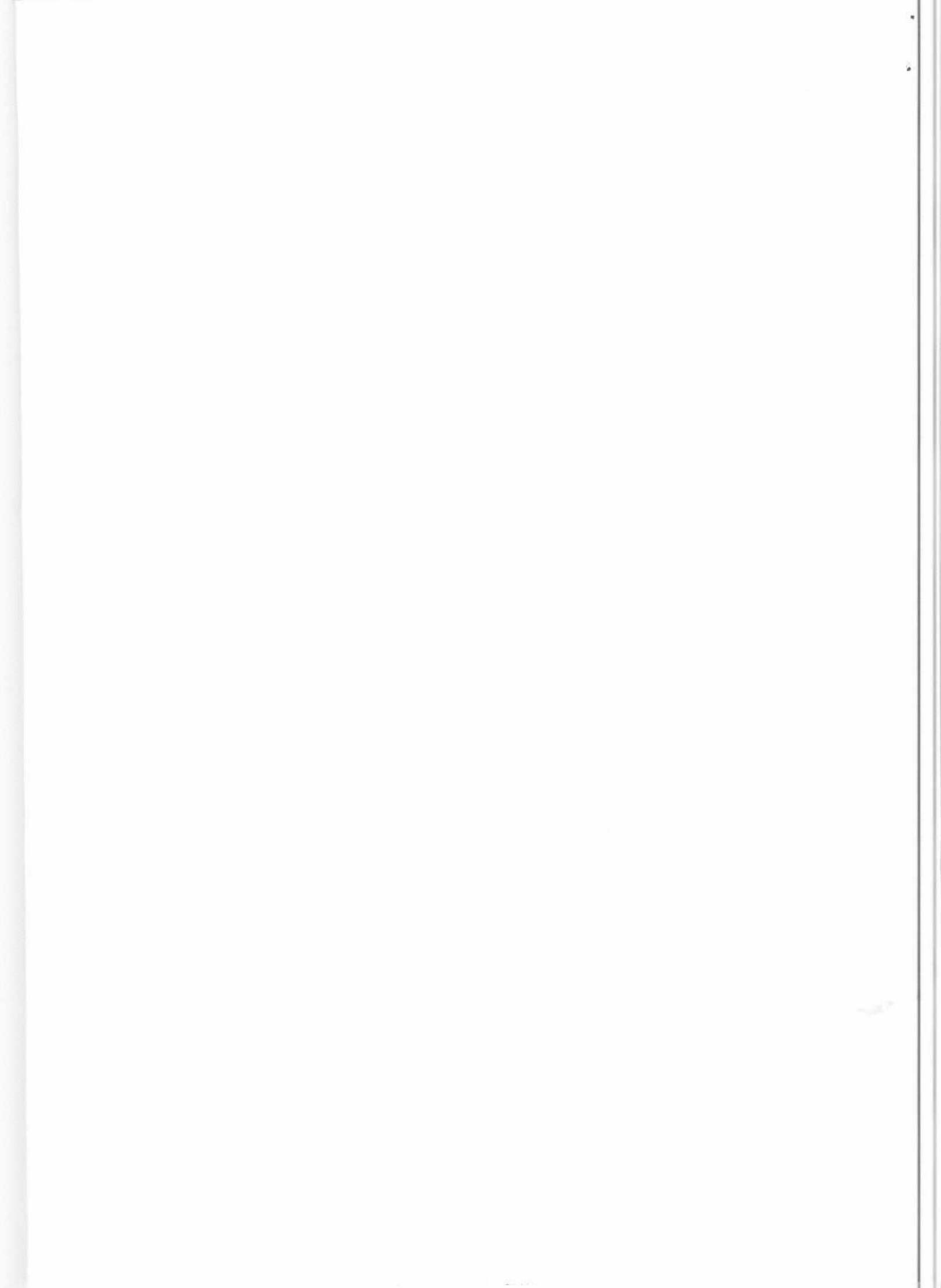
TENDER DOCUMENT

**SUPPLY OF LABORATORY
EQUIPMENT**

TITLE: Import of Laboratory Equipment
for Department of Metallurgical Engineering

DOCUMENT NO.: PD (M-III)/NED/MYD/Equip/209/16

PROCUREMENT CELL





(i)

Tender No. PD(M-III)/NED/MYD/Equip/209/16

COST SUMMARY

- TOTAL C&F COST IN FOREIGN CURRENCY: _____

- EXCHANGE RATES WITH DATE : _____

- TOTAL C&F COST IN PAK RUPEES: _____

- EARNEST MONEY 2% OF TOTAL
C&F COST IN PAK RUPEES: _____

NOTE: BIDDERS ARE REQUIRED TO FILL THIS SHEET COMPULSORILY.

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**INSTRUCTIONS TO TENDERERS
AND
TERMS & CONDITIONS**

1. QUOTATION

Quote rates on C&F Karachi basis for the supply of items described in the attached Bill of Quantities. The following should be clearly indicated in the Quotation:

- 1.1 Firm and fixed item-wise ex-works price.
- 1.2 Firm and fixed packing, handling, forwarding, documentation charges, etc. and inland freight upto port of dispatch.
- 1.3 Estimated sea freight/airfreight upto Karachi Seaport/Airport.
- 1.4 Total C&F value Karachi Airport/Seaport.
- 1.5 Quotation must be in DUPLICATE and should remain valid for 90 days from the last date of the submission of tenders. Telephone/telex/fax/telegraphic tenders shall not be entertained.
- 1.6 The agents must enclose original Proforma Invoice/Fax copy/ Quotation from their Principals otherwise their tender will be rejected.
- 1.7 Bidders must have office and workshop facilities in Karachi failing which their offer will not be considered.
- 1.8 Bidders must have trained engineers to provide after sales service.
- 1.9 The agent must submit following documents alongwith their offer:
 - 1.9.1 Manufacturers Authorization Certificate.
 - 1.9.2 List of Technical / Engineering Staff stationed in Karachi.
 - 1.9.3 List of reference installation in Pakistan for similar equipment.
 - 1.9.4 Non-Black List Certificate (confirming that bidder has never been black listed from any Government / Semi Government organization).

NOTE: QUOTATIONS ON F.O.R. BASIS WILL NOT BE ACCEPTED

2. EARNEST MONEY:

The tenderers should submit their bids alongwith a Bank Guarantee/Pay order of 2% of the Total Bid amount, valid for 120 days from the date of opening of tenders as Earnest Money in the name of Director Finance, NED University Karachi as per Annexure-"D". Tenders without earnest money of 2.0% of the total bid cost will not be entertained. The earnest money will be returned after submission of acceptable Performance Bond of 10% of C&F cost and the execution of Contract Agreement.

NED UNIVERSITY of Engineering & Technology
 University Road, Karachi-75270 Fax: 9926 1255
 Tel: 9926 1261-68 (Ext: 2471, 2291) Email: ddf@neduet.edu.pk

TENDER NOTICE No: **PC/M-III/2591**

Sealed Bids based on "Single Stage One Envelope" are invited from the Manufacturers/Authorized Dealers/Distributors/Suppliers registered with Income Tax and GST Departments for the following Procurements:

① PC(M-III)/NED/HPCC/Software/203/16			
Detail of Work (FOR basis) Procurement of AreGIS Desktop (Advanced) for HPCC			Tender Fee 500/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 10:00 am	06.09.2016 10:30 am

IMPORT OF LABORATORY EQUIPMENT (C&F Basis)

② PC(M-III)/NED/Textile/Equip/206/16			
Department of Textile Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 05.09.2016	06.09.2016 11:00 am	06.09.2016 11:30 am

③ PC(M-III)/NED/Mechanical/Equip/211/16			
Department of Mechanical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 10:00 am	07.09.2016 10:30 am

④ PC(M-III)/NED/IMD/Equip/210/16			
Department of Industrial & Mfg. Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 06.09.2016	07.09.2016 11:00 am	07.09.2016 11:30 am

⑤ PC(M-III)/NED/Materials/Equip/208/16			
Department of Materials Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 10:00 am	08.09.2016 10:30 am

⑥ PC(M-III)/NED/Chemical/Equip/207/16			
Department of Chemical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 07.09.2016	08.09.2016 11:00 am	08.09.2016 11:30 am

⑦ PC(M-III)/NED/MYD/Equip/209/16			
Department of Metallurgical Engineering			Tender Fee: 1,000/-
Issue / Sale Dates		Submission Deadline	Opening Date
from 19.08.2016	to 08.09.2016	08.09.2016 11:00 am	09.09.2016 11:30 am

Bid Security @ 2% of the Total Bid Cost of Each Tender Separately in form of Pay Order in favour of Director Finance
 Tender Documents can be purchased from ADP-II Office and shall be opened as per above Schedule in the same Office

Complete Detail and Specifications of the aforesaid Tenders can be downloaded from the University website www.neduet.edu.pk and SPPRA Website www.pprasinhd.gov.pk. Procuring Agency may reject all or any Bid subject to the provision of relevant Rules of SPPRA. Bidders are requested to give their Best and Final Prices as "No Negotiations" are expected.
Director Procurement

3. **PERFORMANCE BOND**

3.1 Performance Bond in shape of Bank Guarantee equal to 10% of the C&F cost of the order shall be furnished within 07 days of acceptance of Proforma Invoice as per Annexure-"C" and shall remain in force for 12 months. The validity of the Bond will be extended if required.

3.2. Local agents of the Foreign Principals will be responsible for installation and satisfactory operation of equipment on their behalf.

4. **INSURANCE**

Offer should be exclusive of Insurance Charges as the same shall be arranged by the University.

5. **ALTERNATIVE PROPOSALS**

Suppliers are not required / permitted to submit the alternative proposals against any B.O.Q. item.

6. **COUNTRY OF ORIGIN**

The tenderer shall state the country of origin of stores offered in the tender.

7. **VALIDITY OF PRICES**

The prices quoted should be valid for a period of at least 90 days from the date fixed for opening of tenders.

8. **PACKING AND MARKING**

The packing of the equipment shall be usual export packing to ensure safe journey by sea, air, rail and road of the goods to destination. Each packing shall be clearly and legibly marked in English as directed by the University.

9. **SIGNING OF THE AGREEMENT**

With in 07 days of the acceptance of the Proforma Invoice, the successful bidder will be required to sign a Contract Agreement with the purchaser for the supply of such quantity in whole or in part of the tendered stores as will be communicated to him in the letter of intent.

10. **ON-ARRIVAL INSPECTION & TAKING OVER**

10.1 **ON-ARRIVAL INSPECTION**

There shall be an inspection by the representative of the Purchaser on arrival of stores at consignees end in presence of representative(s) of the Contractor/Local Agent if any, and the Insurance Company. The report of inspection, which, inter-alia should indicate the conditions in which each unit of package has been received, will be signed by the above-mentioned representatives.

10.2 TAKING OVER

Upon receipt of the Equipment in the Warehouse of Purchaser and after final inspection by inspection agency (or agencies) nominated by the Purchaser, the Purchaser will issue a taking over certificate in which he shall certify the date on which the Equipment has been so accepted. The taking over of damaged equipment during the transportation shall be withheld until it has been completely repaired/replaced and checked.

11. **WARRANTY**

11.1 The contractor shall issue warranty to the effect that the stores shall be fit for the particular purposes and operations.

11.2 The contractor shall guarantee supply of good quality stores in accordance with the specifications and that the stores shall be brand new and absolutely free from all defects in materials quality and workmanship. In case of defect, the stores or the necessary components shall be replaced by the contractor free of cost upto the Purchaser's premises within reasonable time.

12. **BREACH OF CONTRACT**

In case of breach of contract, the damages suffered by the Purchaser shall be recovered to the full extent from the Contractor's Performance Bond, Local Agent's commission and any payment due without reference to him.

13. **CONTRACTOR'S DEFAULT-LIABILITY**

13.1 The purchaser may upon written notice of default to the Contractor terminate the contract in circumstances detailed hereunder:

13.1.1 If in the judgment of the Purchaser, the Contractor fails to make delivery of equipment within the time specified in the Contract Agreement or within the period for which the purchaser has granted extension to the Contractor.

13.1.2 If in the judgment of the Purchaser, the Contractor fails to comply with any of the other provisions of this contract.

13.2 In the event the Purchaser terminates the contract in whole or in part, the Purchaser reserves the right to purchase upon such items and in such a manner as he may deem appropriate, equipment similar to the one terminated and the Contractor will be liable to the Purchaser for liquidated damages for delay until such reasonable time as may be required for the final supply of equipment.

14. REJECTION

In the event any portion of the stores supplied by the contractor is found before the taking over to be defective in material or workmanship or otherwise not in conformity with the requirements of the contract, the Purchaser shall have the right to either reject or to request in writing rectification of the stores, then the Contractor shall with utmost diligence and at his own expense make good the defects so specified or replace the defective stores. If the Contractor fails to do so, the Purchaser either:

- (i) May at its option replace or rectify such defective stores and charge to the Contractor the excess cost occasioned to the Purchaser plus (15%) fifteen percent.
- (ii) Terminate the Contract for default. In the event the Contractor is not able to rectify or replace the rejected stores within reasonable time, the Purchaser reserves the right to acquire the said stores at a reduced price considered equitable under the circumstances. Nothing in the clause shall affect any claim by the Purchaser under any clause of the Terms & Conditions.

15. DELAY IN DELIVERY - LIQUIDATED DAMAGES

15.1 If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, there shall be deducted from the Contract Price, as Liquidated damages, a sum of 2% of FOB value per month or a part of the month of the contract price of each unit of the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's Commission/Performance Bond.

15.2 Should the progress of the contract at any time be lagging behind the programme agreed between the Purchaser and the Contractor, the Purchaser shall notify the Contractor in writing and the Contractor shall thereupon take such steps as he may deem fit to expedite the progress of the Contract.

16. PERIOD OF GUARANTEE

16.1 The term "Period of Guarantee" shall mean the period of twelve (12) months from the date on which the equipment has been put into operation. In any case, this period shall not exceed eighteen (18) months from the date of the taking over certificate:

- 16.2 During the period of guarantee, the Contractor shall remedy all defects in design, materials and workmanship that may develop under normal use of the said stores upon written notice from the Purchaser who shall indicate in what respect the Equipment is faulty.
- 16.3 The provisions of this clause include all the expenses that the Contractor may have to incur for delivery of such replacement parts, material or equipment up to Purchaser's premises.

17. ACCEPTANCE TERMS

The submission of the tender against the tender inquiry by the tenderer means that the tenderer has read and accepted the terms and conditions relating to all the tender document and annexures and has thoroughly examined the specifications and particulars in the tender inquiry.

18. Eligibility Criteria – Single Stage One Envelope Procedure / Method

Tender and Bidding documents of this method shall contain the following Eligibility Criteria:

- i) Relevant Experience
- ii) Turn-over of at least Three (03) Years
- iii) Registration with Income Tax, Sales Tax and Pakistan Engineering Council (where applicable).

19. Evaluation of Bids

In comparing bids, the Purchaser will consider such factors as compliance with specifications, relative quality, past experience, after – sales services facilities available in Pakistan and the bidders capability to perform.

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

CONTRACT AGREEMENT

**IMPORT OF LABORATORY EQUIPMENT FOR
DEPARTMENT OF METALLURGICAL ENGINEERING**

Contract No.: PD(M-III)/NED/MYD/Equip/209/16

Letter of Intent No.

- | | | |
|----|--|---|
| 01 | Name(s) and address(es) of the parties to contract | 1 (Name of Local Agent)

2 NED University of Engineering & Technology, Karachi-75270, Pakistan (hereinafter called the consignee). |
| 02 | Contract Value | The total C&F Karachi price of the equipment to be imported will be -----

----- |
| 03 | Particulars of Stores | -----

----- |
| 04 | Consignee | NED University of Engineering & Technology, Karachi-75270, Pakistan.
Telephone: 92-21-99243261-68,
Fax: 92-21-99243255. |
| 05 | Consignor | Messrs. (Name of Principal)-----

----- |
| 06 | Date of Shipment | Within ----- days of the Receipt of Letter of Credit. |
| 07 | Place of Delivery | Karachi, Pakistan |
| 08 | Delivery Period | Within ----- days of the Receipt of Letter of Credit. |

09	Marks & Packing	The consignment should be marked clearly for the " NED University of Engineering & Technology, Karachi-75270, Pakistan. "
10	Payment	<p>Payment through an Irrevocable Letter of Credit in favour of Messrs. -----, subject to submission of the following documents (in triplicate) to the University:</p> <ul style="list-style-type: none"> - Final Invoice showing all charges - Original Airway Bill/ Bill of Lading - Original Shippment Advice - Packing List & Warranty/ Guarantee Certificate.
11	Bank Charges	Bank Charges for opening of Letter of Credit (both inside and outside Buyer's Country) will be paid by the buyer (University).
12	Country of origin	-----
13	Port of Shipment	-----
14	Port of Entry	Karachi Airport/ Karachi Seaport
15	Part - Shipment	Not Allowed
16	Trans - Shipment	Allowed
17	Insurance	<p>The insurance of the consignment from ware house to ware house, i.e. from Messrs. ----- -----to the NED University of Engineering and Technology, Karachi-75270, Pakistan will be arranged by the consignee.</p>

- 18 Documents Original Invoice(s), Airway Bill(s)/ Bill(s) of Lading, Packing Lists and Shipment Advice should be sent in the name of NED University of Engineering & Technology, Karachi-75270, Pakistan, C/o National Bank of Pakistan, ----- Branch, Karachi, Pakistan, along with three (3) copies of shipping documents so as to reach the Karachi Airport along with the consignment/ goods.
- 19 Extension in L/C In case the contractor fails to deliver the consignment within the stipulated delivery period, the extension in the delivery period will be at the discretion of the University.
- 20 Guarantee Certificate The Local Agent, Messrs. -----, will arrange to submit to the University a valid Warranty/ Guarantee Certificate as per Annexure- A-II along with the negotiable documents. The certificate should clearly state that the stores supplied by the Supplier/ Principal are brand new and are absolutely free from any material or manufacturing defect(s) and are strictly in conformity with the specifications provided in the relevant quotation. Supplier/ Principal will also certify that the stores have been packed and marked in accordance with clause 9 of this contract.
- 21 Variation The contract shall not be varied or modified without mutual agreement in writing by both parties to contract.
- 22 Replacement The Supplier/ Principal will be responsible to arrange free of cost and inclusive of freight charges, prompt replacement of the equipment or any part, if found defective during the inspection by the University.

- 23 Guarantee/Warranty Warranty of the equipment for a period of one year from the date of installation and operation including replacement and labour on free of cost.
- 24 After Sale Service Free after sale service for a period of one year including part and labour from the date of installation and operation.
- 25 Publications All publications and original service, operational and maintenance manuals to be provided to the University free of cost, in case of supply on in lieu/ substitute item/items, the manuals of those will also be provided. These will be in English Language.
- 26 Special Instruction Shipment through friendly countries carriers only.
- 27 Installation/
commissioning Installtion and commissioning by Messrs. ---

- will be free of cost and will be done within eight weeks of the arrival of the equipment at the University.
- 28 Security/
Performance
Bond The Local Agent -----
----- and is required to submit (before the establishment of L/C) 10% Performance Bond of total value in the shape of Pay Order or an unconditional Bank Guarantee from the schedule bank valid for a period of twelve (12) months which should be executable in any branch of Karachi of that Bank if supplier has account out of the city . The Performance Bond will be released only after satisfactory performance of the contract.
- 29 Familiarization Training Operational and familiarization/training at NED University free of cost, within eight weeks of arrival of the equipment.

WARRANTY/ GUARANTEE CERTIFICATE

Firm's Name _____

Contract No. _____ Date: _____

1. I/We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the contract and that materials used, whether or not of our manufacture, are in accordance with the latest approved standard specifications, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be defective, or not within the limits and tolerance of specifications requirements, or in any way not in accordance with the terms of the contract.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will refund the cost involved.
3. The Warranty/ Guarantee will remain valid for 12 months after receipt of stores by the consignee/ installation of equipment.

Signature : _____

Name : _____

Status in the firm : _____

Dated : _____

- | | | |
|----|--|---|
| 30 | Inspection | The consignment will be subject to inspection by the University. |
| 31 | Liquidated Damages | If the Contractor fails to deliver the equipment within the time laid down in the Contract Agreement or any extension thereof, the consignee reserves the right to deduct from the Contract Price, as Liquidated Damages , a sum of 2% of FOB value per month of the contract price of each unit of the equipment or the undelivered stores for each calendar month of delay. Total liquidated damages payable to the Purchaser shall not in any case exceed by ten percent (10%) of the Contract Price of the unit or units so delayed and such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The amount will be recovered from the Local Agent's commission / Performance Bond |
| 32 | Acceptance of Terms & Conditions of the Contract | The Local Agent/Principal hereby accepts the Instructions to Tenderers and Terms & Conditions of the contract laid down in the Contract Document. |

1. Supplier/Contractor

Signature _____

Name _____

For Messrs.

2. NED University of Engineering and Technology, Karachi.

Signature _____

Director (Procurement)

For & on behalf of Vice Chancellor

NED University of Engineering & Technology

Tel #: 99261261-68 Ext. 2291

Fax #: 99261255

Dated: _____

FORM OF TENDER

Contractor/Manufacturer/Supplier

Telegraphic Address: _____

Telephone Number : _____

Fax Number : _____

To,

**The Director (Procurement),
NED University of Engineering &
Technology**

Dear Sir,

In reply to your invitation to Tender No. _____ dated _____ I/We hereby submit my/our tender in duplicate for the supply of Laboratory Equipment, as per details given in the schedule hereto duly signed by us or such portion thereof as you may specify in acceptance of tender at the prices given in the said Schedule and agree to hold this offer open till _____. I/We shall be bound by a communication of acceptance dispatch within the prescribed time.

I/We have understood the Terms and Conditions of Invitation to Tender and have thoroughly examined the specifications quoted in the schedule hereto and am/are fully aware of nature of stores required and my/our tender is to supply stores strictly in accordance with the requirements.

The tender particulars have been furnished and signed.

Yours faithfully,

(_____)

Dated: _____

Address: _____

TENDER PARTICULARS

TENDERER MUST GIVE SPECIFIC ANSWER FOR EACH
ITEM AGAINST EACH OF THE FOLLOWING QUESTIONS

1. Whether equipment offered conform to particulars specified in the schedules, if not, details of deviation must be stated.

2.
 - 2.1 Brand of equipment
 - 2.2 Name & Address of Manufacturer
 - 2.3 Country of Origin of Equipment

3. Earliest date by which delivery can be affected and complete schedule of delivery. If delivery period is different for different items, it is to be indicated item-wise. The delivery schedules offered must be guaranteed.

4. Whether specifications of packing as prescribed in Tender Enquiry will be adhered to.

CONTRACT PERFORMANCE BOND

(This Bond must be from Scheduled Bank executed on a non-judicial Stamp Paper)

KNOWN ALL MEN BY THESE PRESENT, WE, _____
AND _____

address or legal title of Contractor (here insert the legal title of _____
are jointly and severally bound to the surety).

NED University of Engineering & Technology, Karachi, including its successor in office and Assignees acting through the Vice Chancellor, (hereinafter called the "Purchaser") in the sum of Rs. _____ (Rupees _____) to be paid to the Purchaser for which payment we jointly and severally bind ourselves and our successors, assignees and legal representations.

Signature: _____

Signature: _____

Dated: _____

The above _____ have tendered to the Purchaser for the supply of equipment for the NED University of Engineering & Technology, and this tender in part has been accepted.

NOW THE CONDITION OF THIS BOND IS

1. That the said _____ shall supply the equipment on C&F Karachi basis to the Purchaser strictly in accordance with the terms and conditions on which the Contract has been awarded to them and shall complete the supply in terms of the contract.

2. AND, if the said _____ do not comply with the supply of equipment within the stipulated period, or such extended period as may be allowed to them by the Purchaser, or only partly supply, or do not commence the supply, or commit a breach or failure in the performance of any part of the Contract, the said Bond shall come into force.

AND, if the said _____ should execute the contract in terms of the conditions of the Contract and hand-over the work to the Purchaser, his obligation shall be void.

Signature _____

Signature _____

Dated: _____

FORM OF THE BID BOND/EARNEST MONEY

GUARANTEE NO. _____
 ISSUED DATE. _____
 EXPIRY DATE. _____
 AMOUNT. _____

To,
 The Director (Procurement),
 NED University of Engineering & Technology

Whereas _____ (Hereinafter called "The Bidder")
 has submitted its bid dated _____ for NED University of Engineering and
 Technology, Karachi hereinafter called "The Bid".

And whereas the Bidder has requested the bank to issue the Bid Bond / Earnest Money in favour
 of NED University of Engineering & Technology, Karachi for the sum of Rs. _____ (2%
 of the total estimated price) required to be furnished by the Bidder for consideration of its Bid.

Now, therefore, we (BANK) _____ having our registered office at _____
 (hereinafter called "The Bank") hereby Guarantees Irrevocably and unconditionally to pay
 forthwith to the sum of Rs. _____ (2% of the total estimated price) without any
 reference to the Bidder on NED University of Engineering & Technology, Karachi first demand
 in writing stating that the Bidder has withdrawn or unilaterally modified its offer or has after
 having been notified of the acceptance of its Bid by NED University of Engineering &
 Technology, Karachi failed to execute the CONTRACT or has failed after executing the
 CONTRACT to submit to NED University of Engineering & Technology, Karachi the
 performance guarantee / bond required under the CONTRACT.

This guarantee shall remain valid and in force for 120 days from the last date fixed for
 submission of the Bids that is and any demand for payment by NED University of Engineering &
 Technology, Karachi within the said validity period of this guarantee shall be paid forthwith by
 the bank to NED University of Engineering & Technology, Karachi.

This guarantee is valid upto _____ and any claim arising out of this guarantee must
 be lodged on or before the _____.

WITNESS

BANK

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY
THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH
RS. 10.00 MILLION OR MORE**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [*name of Contractor*] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative department or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [*name of Contractor*] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[*name of Contractor*] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[*name of Contractor*] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [*name of Contractor*] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [*name of Contractor*] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Procuring Agency:

Name of Contractor:

Signature:

Signature:

[Seal]

[Seal]

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY KARACHI

DEPARTMENT OF METALLURGICAL ENGINEERING

BILL OF QUANTITIES

S.No	Description of Items	Unit	Quantity	Unit Rate	Total Cost
02	<p>Hardness Tester</p> <p>2.1 Shore Hardness Tester (Digital Shore Durometer Non-portable)</p> <ul style="list-style-type: none"> • Specification of Testing machine and procedure should confirm ASTM D 2240 or ISO7619-1:2004 standards. • Durometer, Indentor and Spring Force Combinations should also confirm ASTM D 2240 or ISO equivalent. • Shore Type: Four different indenter's types with required force should be available to cover all the eight scales of Shore hardness measurements. <ol style="list-style-type: none"> i. Type A and C. ii. Type B and D. iii. Type O, DO, and OO. iv. Type M • It is used to evaluate the indentation hardness of materials such as elastomers, thermoplastic elastomers, vulcanized rubber, cellular, gel-like, o rings, and plastics. • Large, easy-to-read LCD display with backlight • Adjustable dwell time • Out-of-tolerance indicators • Compatible test stand for all shore type. • O-Ring Fixturing complete set <p>Standard Accessories:</p> <ul style="list-style-type: none"> • Standard Test Blocks: Color-Coded Test Blocks for Type A and D durometers. • Instruction & user manual, dust cover. 	Sets.	02		
	<p>2.2 Rockwell and Superficial Rockwell Hardness Tester (Digital Type)</p> <ul style="list-style-type: none"> • Specification of Testing machine and procedure should confirm ASTM E 18 or ISO equivalent standard. The test force, indenter and measuring device should be certified. • Rockwell Hardness Scales: A,B,C,D,E,F,G,H,K,L,M,P,R,S, and V Scale. • Rockwell Superficial Hardness Scales: N,T,W,X and Y Scales • Test Force: For Rockwell Superficial Hardness 15, 30, 45 Kgf and • For Rockwell Hardness 60, 100, 150 kgf • Test Indenters: steel ball indenters 1/16, 1/8, 1/4, and 1/2 inches in diameter and 120° ± 0.35° diamond spheroconical indenter 	Sets.	02		

P.T.O.

<ul style="list-style-type: none"> • Anvil: Flat and V-Grooved. Jominy specimens anvil • Power requirement: 220V/50Hz • Standard Accessories: Standard Test Blocks, Dust cover: <p>2.3 Vickers Hardness Testers</p> <p>2.3.1 Micro-Hardness Tester- (Digital)</p> <ul style="list-style-type: none"> • Specification of Testing machine and procedure should confirm ASTM E 384, E 2546 or ISO equivalent standard. The test force, indenter and measuring device should be certified. • Fully Automatic Testing system. • Auto measuring Software. • Hardness Scale: Vickers and Knoop • Test Load: 1 to 1000 gf(1Kgf). Or latest load provision • Indenter : Standard Knoop and Vickers Indenter: • Test Cycle: Automatic (loading/dwell/unloading) • Load Duration (Dwell Time): 5 - 99 seconds • Eyepiece Magnification: 10X • Standard Objectives : 10X, 40X or 50X and 100X or Maximum Provision Or compatible with tester • Total Magnification: 0.7X to 1000X • Conversions: Brinell, Vickers, Rockwell and Tensile Strength according to ASTM E140, ISO 18625 • Power requirement: 220V/50Hz • Supplied with personal Computer. • Standard Accessories: Standard Test Blocks, Dust cover: <p>2.3.2 Vicker Hardness Tester- (Digital)</p> <ul style="list-style-type: none"> • Specification of Testing machine and procedure should confirm ASTM E 92 or ISO equivalent standard. The test force, indenter and measuring device should be certified. • Fully Automatic Testing system. • Fracture Toughness Test, Kc value can be measured as a standard function according to standard. • Auto measuring Software. • Hardness Scale: Vickers (HV) / Knoop (HK) / Brinell (HB) / Fracture Toughness (Kc) measurements quick and easy. • Test Load: 1Kgf to 120Kgf. • Indenter: Standard square-based pyramidal diamond and Ball Indenters for brinell. • Test Cycle: Automatic (loading/dwell/unloading) • Eyepiece Magnification: 10X • Standard Objectives : 5X, 10X, 40X, 50X and 100X or compatible with tester • Total Magnification: 0.7X to 1000X • Power requirement: 220V/50Hz • Supplied with personal Computer. • Standard Accessories: Standard Test Blocks, Dust cover: 	Set.	01	
	Set.	01	

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	<p>2.4 Brinell Hardness Tester (Universal Digital Type)</p> <p>Key Features:</p> <ul style="list-style-type: none"> • Scale: Brinell, Rockwell, Superficial Rockwell, Vickers, Knoop, scales • Test Force/load : Range from 10Kgf to 3000kgf • Specification of Testing machine and procedure should confirm ASTM Hardness testing standards or ISO equivalent standard. • The test force, indenter and measuring device should be certified and fully computerized and six position motorized turret. • Objectives: available from Low magnification to maximum 1000X • Dwell Time: Adjustable as per tester specification • Power requirement: 220V/50Hz • Anvil: Flat and V-Grooved. <p>Standard Accessories:</p> <ul style="list-style-type: none"> • Standard Test Blocks: certified hardness test block shall be supplied with a certificate showing the results of the individual standardizing tests and the arithmetic mean of those tests, including Date of standardization, Serial number of block, and Name of manufacturer or mark of supplier.. • Dust cover. • Instruction & user manual 	Sets.	02		
04	<p>Micro hardness tester</p> <p>Computerized mechanical properties measuring system such as hardness and allied properties micro/nano constituent in metallurgical engineering samples.</p> <p>Indentation Tester (Nano)</p> <p>Specifications</p> <ul style="list-style-type: none"> • Load Range: 400mN to 800 mN • Load Resolution: 0.03μN to 0.08 μN or compatible with indentation tester • Indenter Tip: Vickers, Knoop, Berkovich, Spherical, Cube corner. • Video zoom Video Microscope magnification: 100X to 3000X or highest standard magnification • Complete indentation software package, computer and printer, includes a complete set of features for setting up the indentation test and handling the data. • Real time display of force against depth, with automatic calculation of hardness and elastic modulus • Powerful indentation modes including Sinus mode analysis (DMA), • Programmable system settings for every single indent in a multi indent experiment • Fully customized user access rights management • Super-positioning of data curves • Automatic measurement report generator • Powerful measurement statistics module • Data export formats • Easy video capture and measurement 	Set.	02		

	Features Determine Hardness, Young's, Creep, fatigue, elastic modulus and fracture toughness, adhesion strength, crack/fracture initiation, wear rates modulus and many other possible, or test feasibility of nano indentation, nano wear and nano scratch testing.				
07	<p>7.1 Belt Grinder:</p> <p>7.1.1 Abrasive Belt grinder (Floor Type)</p> <ul style="list-style-type: none"> Belt material: zirconia, Alumina and silicon carbide abrasive sanding belt. (changeable) suitable for both soft and hard materials (small workpiece). Motor rating: 1-3 KW Grit size : 1. Course grinding/Universal 2. Medium/Fine Grinding belts Speed: High speed 2000-3500rpm Adjustable slide: 30°-90° Easy to operate Quantity of belt: standard pack (02) Protection shield against flying sparks. <p>7.1.2 Abrasive Belt Grinding Machine (Table Type)</p> <ul style="list-style-type: none"> wet or dry belt grinder for coarse grinding Motor rating: 0.25- 0.5 KW Speed : low speed; attachment to hold the specimen mounts perpendicular suitable for both soft and hard materials (small workpiece) water cooling system 1-inch sleeve for square/round holder <p>7.1.3 Spectral Grinding Machine</p> <ul style="list-style-type: none"> The grinding machine which is used for the surface of spectral analysis sample, such as metal, ceramic, glass and others. Power Rating: 1.5KW to 2KW Included with auto-sampler for small sample handling Standard pack of grinding papers suitable for mentioned materials.(5 set) <p>7.2 Hand Grinder and Polisher: (Non-Electric Type)</p> <ul style="list-style-type: none"> 5-station hand grinder/polisher (coarse to fine grinding) Cooling rinse system: water Grit Paper: Silicon Carbide (SiC) Grinding stations: 240 grit, 360 grit, 600 grit, 800 grit, 1200 grit Polishing Cloth : Synthetic fiber or woven cotton <p>Consumables</p> <ul style="list-style-type: none"> Grinding papers: mentioned in grinding stations (Qty 2000) Polishing cloth: (Qty:1000) Diamond Paste: 1micron (300grams) Diamond lubricant: water based: (20grams) Alumina Powder: 0.05micron,0.3micron and 1.0micron (Qty 30 Kg each) 	Sets.	02		
		Sets.	01		
		Set.	01		
		Set.	08		

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12	<p>Laboratory Rolling Mill</p> <p>12.1 Laboratory Tandem Rolling Mill (Custom Made)</p> <ul style="list-style-type: none"> • Two reversible two-high rolling stands of flat products (Lab scale) • Possibility of forming with relatively high reductions and high strain rates. • should operate from control panel or works automatically by use specific software designed through portable computer for operation of the machine. Reduction schedule, temperature monitoring, while the mill may operate directly from panel. • Computer processing of measured data allows calculation of mean deformation resistance, strain rates etc. <p>Parameters/specification</p> <ul style="list-style-type: none"> • Total length of rolling mill including the roll tables: 4 to 4.5 meter or lab scale. • Roll size: diameters of working rolls = 150mm to 170 mm and width of roll body = 150 mm to 160mm • Distance between the rolls of both rolling mill stands: 600mm to 630 mm or flexible as per machine manufacturing requirement. • Maximum opening of the roll gap is 60 mm. • Each of two stands separately driven by DC motor. • Surface temperature of rolled product measured by temperature scanners. • Revolutions of working rolls are adjustable in the range from 1 to about 900 r.p.m. • maximum output velocity of rolling stock is over 4 to 5 m·s⁻¹ or compatible • Heating resistance furnace on one sides of the rolling mill (Temp: 1200-1350°C) <p>Accessories</p> <ul style="list-style-type: none"> • Portable pyrometer compatible with the rolling mill, lubricants, working or safety gloves and all allied accessories for installation, commissioning and machine operations. <p>12.2 Two High Rolling Mill for Cold Rods and Sheets (Laboratory Scale)</p> <ul style="list-style-type: none"> • Maximum Rolling Force: 2000PSI to 3000PSI • Roll: 2 piece good quality alloy steel such as 9Cr2Mo or NiCrMo • Motor: 4KW to 5KW • Roll diameter: 4-6inch: • Roll speed: low to 27, 30 or 40rpm variable • Roll width: 260mm 300mm • Roll gap: maximum 20mm • Driving Sleeve: Standard pack set (3 or 4) • Roller for Rods shapes: can make 10 to 12.5mm diameter rod. 	Set.	01		
		Set.	01		

	<ul style="list-style-type: none"> • Easy to change rollers for making rods and sheets. <p>Accessories Lubricants, working or safety gloves and all allied accessories for installation, commissioning and machine operations.</p>				
13	<p>Metal Forming Lab Equipment</p> <p>13.1 Intermediate Wire Drawing Machine with Continuous Annealer</p> <p>Specification:</p> <ul style="list-style-type: none"> • Automatic tension control. • Main Drawing Machine, Annealer and Pointing Device Attachment. (for initial run out) • Drawing oil circulating tank (for Copper) with Coolant Cleaning System. • Maximum Number of Dies: 12- 13 • Copper: input size: 2 mm to 3mm, outlet size: 0.5 - 1.2mm • Set of Tungsten Dies (WD). (As per Machine Requirement) Or Set of Diamond Dies (DD). (As per Machine Requirement) • Capstan: Tungsten carbide capstan. • Drawing lubrication : Fully immersion <p>Required Accessories</p> <ul style="list-style-type: none"> • Copper wire (3mm Dia) with Bobbin/Spool (or As per Machine) • Standard Spare Parts, oil pipes and fitting, lubrication hydraulic oil, testing dies, Air compressor, PH meter, Welding machine, Tool Kit. • User manual: specification, machine structure drawing, instruction, dies arrangement, foundation drawing, fault resolution, maintenance, consumables drawing, electrical drawing. <p>13.2 Extrusion Machine for ferrous and nonferrous metals</p> <ul style="list-style-type: none"> • Metal Powder Extruder, Vertical type • The machine should equip with Safety photoelectric protection device to protect the personal safety. • High efficient for accuracy and controls. • Electronic PLC control based system with touchscreen, real time display and modified parameters. • Hydraulic system should equip with special pressure relief loop smoothly without shock. <p>Parameters:</p> <ul style="list-style-type: none"> • Main cylinder capacity : 3000KN - 4000KN • Main cylinder working pressure: 20Mpa to 30Mpa • Main cylinder maximum stroke: 450mm to 550mm • Lower cylinder nominal pressure rating: 240KN to 460KN • Lower cylinder maximum stroke: 240mm to 250mm • Effective area of working table: 700mm to 730mm • Heating device: Mold heating temperature (PID controlled): 400 to 600°C ±5°C or compatible with machine 	No.	01		
		Sets.	02		
		Set.	01		
		Set.	01		

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	<ul style="list-style-type: none"> • Mold and die material: Excellent quality highly alloy tool/mold steel offering longer tool life and reduced lubricant used, good wear resistance. • Dies must withstand considerable amount of stresses, thermal shock, and oxidation. • Conical entrance angle dies • Complete dies set for assembling and machine operations • Extrusion dies: output shapes or geometry <ul style="list-style-type: none"> i. Flat- dies: Thickness = 6 to 8mm, width = 6 to 15mm ii. Circular dies: Diameter 25.4mm (1 inch) • Working or safety gloves, tongs, and all allied standard accessories for installation, commissioning, and machine operations 				
14	<p>Induction Surface Hardening Equipment 14.1 Laboratory Vacuum Heat Treatment Furnace 1200°C</p> <ul style="list-style-type: none"> • Max. Vacuum: 10⁻⁴ to 10⁻⁵ Pa • Max. Temperature: 1200°C • Programmable and Auto Control • Power Requirement Maximum 10KW or compatible • Temperature Accuracy = +/- 1 °C • Monitoring of Pressure and Temperature • Better Quality Heating Element • Built in protection for over-heated and broken Thermocouple. • Larger digital control panel for easy operation. <p>Accessories</p> <ul style="list-style-type: none"> • Working or safety gloves, tongs, and all allied standard accessories for installation, commissioning, and machine operations. 	Set.	01		
15	<p>Computerized High Speed cutter 15.1 Automatic High Speed Precision Cut-off Machine</p> <ul style="list-style-type: none"> • Programmable with HMI touch screen control. • Moving table feed system with y axis feed rate • Variable speed from 500 to 4000/5000 rpm • Automatic feeding with adjustable feed speed. • Motorized positioning system with digital readout on the LCD • Disc diameter: 200 mm or compatible • Disc/cutting material: Abrasive, Diamond, Diamond Cup Grinding Wheels for thin sectioning and CBN for precision cutting • Complete set of specimen vises and flanges, clamping tools, cutting fluid etc. • Materials to be cut: Ferrous and nonferrous, ceramics, composites etc. 	Sets.	03		
18	<p>NDT Lab Equipment 18.1 Ultrasonic Testing Equipment (Complete Laboratory based System)</p> <ul style="list-style-type: none"> • Phased Array Technology Based 	Set.	01		

<ul style="list-style-type: none"> • The equipment must be compliance with the following Standards ASTM E317 / E 1324, EN 12668, or equivalent standards. • Phased array Technology based instrument also provide a conventional ultrasonic testing to support inspections with single/dual element transducer. • Frequency ranges from 0.5kHz to 4 MHz, with the option of using multiple frequencies in the same acquisition • Material's (steel, composite, polymer) having thickness in the range of 1mm to 10m (0.04 inch to 400 inch) or above must be inspected by the Equipment. • Provide appropriate reference standards for calibration at the start of a test. <p>Probes and Standard Accessories</p> <ul style="list-style-type: none"> • Probe with an adjustment system adapts to diameters from 4 in. to flat along with small-footprint wedges with complete ready to use kit set along with calibration blocks • Near-surface detection capability of 0.5 mm. • Beam coverage width of up to 30 mm. • Provision for the selection of angles from 300 to 700 must be available to suit angle beam application. <p>Suitable for following Application</p> <ul style="list-style-type: none"> • Inspections of corrosion, castings defects, forgings defects, and welding defects <p>Standard Accessories</p> <ul style="list-style-type: none"> • Li-ion battery having operational time 5 hour or greater (Qty = 4). • Any allied standard accessories for installation and test operation. • Printed Operating Manual of the concerned Equipment (Specific to the Version/Model). <p>18.2 Eddy Current Tester (Complete System)</p> <ul style="list-style-type: none"> • Specification of Testing apparatus and procedure should confirm ASTM E 309, E 2884, E 2388 or ISO equivalent standards. • Eddy current array (ECA) technology based. • Frequency ranges from 1Hz to 10 MHz or higher, with the option of using multiple frequencies in the same acquisition • Larger area can be scanned in a single-probe pass, while maintaining a high resolution • Improved flaw detection and sizing with C-scan imaging • Less operator dependence • Provide appropriate reference standards/block for calibration at the start of a test <p>ECA Probes and Standard Accessories Suitable for mentioned Application</p> <ul style="list-style-type: none"> • Surface, subsurface, Pencil, Sliding, ID and OD probes with complete ready to use kit set along with calibration blocks 	Set.	01	
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	<p>Applications</p> <ul style="list-style-type: none"> • Weld Inspection, Conductivity Testing, Surface Inspection, Corrosion Detection/inspection (semiautomatic type), Tubing inspection and Advanced Composite Inspection (Bond tester). <p>Software</p> <ul style="list-style-type: none"> • Flexible and Easy-to-Use ECA Inspection Software • One-step inspection, high scan speed, and instant results. • Defect depth evaluation capability. • Adjustable sensitivity and post-process analysis. • Environment-friendly method (no chemicals involved) <p>Standard Accessories</p> <ul style="list-style-type: none"> • Smart Li-ion batteries compatible for ECA tester (Qty = 10 backup time 6 to 7 hours) or any allied standard accessories for installation and test operations. • Free of cost operational training. <p>18.3 X ray inspection: Digital Radiography / Computed Radiography (CR) Equipment with software provision</p> <ul style="list-style-type: none"> • The equipment must be compliance with the following Standards ANSI N432-1980, ASTM E1030, ASTM E1742, MIL-STD-271, MIL-STD-453, ISO 5579:2013 or equivalent standards. • Tube voltage Upto 400 kV in steps of 2 kV with tube current from 0.1 mA to 5mA (Adjustable). • Can perform Computed Tomography and nondestructive testing tasks with minimal operator training. • Vault with imaging equipment that can penetrate solid materials of varying thicknesses, capabilities also include X-ray inspection of small products such as electronic assemblies using a special X-ray camera in a small cabinet unit. <p>Suitable for following Application</p> <ul style="list-style-type: none"> • Detect internal discontinuities such as shrinkage, cracking and • Porosity. • Verify the integrity of internal components. • Determine the quality of welds. • Identify the extent of corrosion. • Standard Accessories • Any allied standard accessories for installation and test operation. <p>Printed Operating Manual of the concerned Equipment (Specific to the Version/Model).</p>	Set.	01		
25	<p>Vacuum Systems</p> <p>25.1 Dual Stage Rotary Vane Vacuum Pump, Vacuum Pump Oil, Exhaust Filters, Foreline Trap and , measuring device</p> <ul style="list-style-type: none"> • Ultimate vacuum: 10^{-3} mbar • Pumping Speed: 20 to 24m³ (350 to 400 l/min) 	Sets.	02		

	<ul style="list-style-type: none"> • Suitable for backing pumps for high vacuum turbo or diffusion pumps • Compact design • Corrosion resistant • Built in anti-suck back valve • High efficiency motor • Gas ballast valve • Installed with Quick Vacuum Test Gauge • Premium quality vacuum pump oil for dual stage rotary pumps compatible for the supplied pump • Exhaust Filter for rotary vane pump with output flange • Foreline Traps : to prevent oil back-streaming from rotary vane pumps • Activated alumina sorbent: used in foreline traps to prevent back-streaming from rotary pumps or to shield vacuum gauges from contamination. <p>Pirani /thermocouple Gauge with integral sensor and display or Digital Compact Vacuum Meters:</p> <ul style="list-style-type: none"> • Offers the precision and high resolution of digital electronics with display and measuring device, available with adapters for easy connection to existing vacuum system. • Measurement Range: low vacuum to medium vacuum level (10^{-3} to 10^{-3} mbar) <p>25.2 Turbo molecular Pump</p> <ul style="list-style-type: none"> • Ultimate vacuum: 10^{-9} or 10^{-10} mbar • Pumping Speed: 600 or 700 l/sec. • Compact design • Corrosion resistant • Installed with Quick Vacuum Test Gauge <p>Gauge with integral sensor and display or Digital Compact Vacuum Meters:</p> <ul style="list-style-type: none"> • Offers the precision and high resolution of digital electronics with display and measuring device, available with adapters for easy connection to vacuum system. • Measurement Range: medium to high vacuum level (10^{-3} to 10^{-10} mbar) 	Sets.	02		
26	<p>Spectrometer</p> <p>Arc/spark optical emission spectrometer</p> <ul style="list-style-type: none"> • CCT based • Small adopter kit with wire adopter • Computer, monitor, Software, printer • Purifier • Argon filled gas cylinder with regulator • Certified Reference Material for Ferro Alloy from BAS • Maximum 15-20 Elements can analyze : C, Si, Mn, P, S, Cu, Al, Cr, Ni, Mo, Co, Ti, Mg, Zn, N, O, Sn, Nb, W, V • Ferrous Alloys: <ul style="list-style-type: none"> i. Low, medium and high ferrous alloys ii. Cr/Ni steels 	Set.	01		

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	iii. Special steels iv. Ni/Mn steels Free of cost training of the equipment.				
27.	Air Melting System with complete accessories Induction Smelting Furnace <ul style="list-style-type: none"> • Capacity = 15 to 20 Kg. • Frequency : Medium or High • Vacuum level: 10^{-3} Pa to 10^{-4} Pa or as per furnace specification and complete Vacuum Units accessories • High heating temperature = approx. 1700°C-1800°C • Fast smelting speed, feeding (feed adding box system), sampling and monitoring system. • Suitable for smelting of ferrous and nonferrous materials. • Melting Crucible and mold: good quality graphite and copper (05 quantity each) Chiller, Argon filled gas cylinder, temperature measuring instrument and allied standard accessories required for installation, commissioning and machine operations.	Set.	01		
			Total		