

NEW M.A. JINNAH ROAD, KARACHI-74800 (PAKISTAN) PHONE: 021-99231195-98, 99230307 FAX: 021-99230710

BID EVALUATION REPORT

1. Name of Procuring Agency:

Dawood University of Engineering & Technology (DUET)

2. Tender Reference:

INF/KRY/1447/15 & INF/KRY/1723/15

3. Tender Description:

Procurement of Lab Equipment's for Electronics

Engineering Department

4. Method of Procurement:

Single Stage- Two Envelope

5. Tender Published:

Dated on 17-04-2015 in Daily Awami Awaz/Sindhi,

Jang/Urdu & Dawn/English Newspapers & on SPPRA

Website with Sr No. 23691, hoisted on 16-04-15.

Corrigendum issued on 05-05-2015 in The News/English,

Jang/Urdu & Awami Awaz/Sindhi with Information No:

INF/KRY/1723/15

6. Total Bid documents Sold;

12 (Ten)

7. Total Bids Received:

05 (Five)

8. Technical Bid Opening date: (if applicable)

12-05-2015

9. No. of Bid technically qualified (if applicable):

02 (Two)

10. Bid(s) Rejected:

01 (One)

11. Financial Bid Opening date:

25-05-2015

12. Bid Evaluation Report:

S No	Name of Firm or Bidder	Cost offered by the Bidder	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/ rejection	Remarks
0	1	2	3	4	5	6
1	M/S PAKTECH INSTRUMENTS	1,353,832	2nd Lowest for only 01 item at Serial No. 16	Open rate	Rejected due to high rates & submitted bid security amount is less than the required amount	
2	M/S RASTEK TECHNOLOGIES	15,293,208	1 st Lowest (For all items From Sr. No. 01 to 16)	Open rate	Substantially Responsive & Best Evaluated & Lowest	

M Asir Muchal Procurement Officer DUET, Karachi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member

Abdul Hafeez Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member Shahab Affoz Khan Director OFC DUET, Karachi Member/Convener



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M Astronophal Procurement Officer DUET, Katachi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member

Abdul Hafeez Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member Shahab Afroz Khan Director Oz.C DUET, Karachi

Member/Convener



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Date: 25-05-2015

PROCUREMENT COMMITTEE ATTENDANCE SHEET ON FINANCIAL OPENING

Date of Opening: 25-05-2015

Tender Ref: INF/KRY/1447/ & INF/KRY/1723/15

SPPRA SERIAL NO: 23691

Title: Procurement of Lab Equipments for Electronics Engineering Department, DUET

Venue: DUET, Karachi

S No.	Name	Designation	Signature	Remarks
01	Mr. Shahab Afroz,	Director QEC DUET, Karachi	for	Convener
02	Mr. S. M. Shabbir	Director Finance DUET, Karachi	Juns	Member
03	Mr. Muhammad Hashim	Director (P&D) QUEST, Nawabshah	(Pm)	External Member
04	Mr. Abdul Hafeez Siddiqui	Deputy Director Procurement QUEST, Nawabshah	000	External Member
05	Mr. M Asif Mughal	Procurement Officer, DUET, Karachi	1.3	Member/Secretary



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Date: 25-05-2015

BIDDERS ATTENDANCE ON OPENING OF FINANCIAL ENVELOPES

Date of Opening: 25-05-2015

Tender Ref: INF/KRY/1447/ & INF/KRY/1723/15

SPPRA SERIAL NO: 23691

Title: Procurement of Lab Equipments for Electronics Engineering Department, DUET

Venue: DUET, Karachi.

S No.	Name of Company	Signature	NIC	Remarks Contact	
1	PAKTECH INSTRUMEN	Co. Shirt	42201-358813	39-3	03333126558
2.	RASTEU TOUR	1 1/1	422019546		02018264045

M Asir Boghal Procurement Officer DUET, Kalachi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member

Abdul Hafeez Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member

Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member

Shahab Afroz Khan Director QEC DUET, Karachi Member/Convener



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Date: 12-05-2015

Bidders Attendance Sheet Tender Opening of Technical Envelopes

Method of Procurement: Single Stage Two Envelope

Date Tender Technical Envelopes Opening: 12-05-2015
Tender Reference No: INF/KRY/1447/15 & INF/KRY/1723/15

SPPRA Serial No: 23691

Title: Procurement of Laboratory Equipment's for Electronics Engineering Dept.

Venue: DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET),

KARACHI

S No.	Name of Bidder	Signature	NIC NO.	Remarks / Contact No.
1	Rassieu Teel	My Du	42201-95216	5-1 0201
2	Notional Scientif Con	Exotion Maux	42501-0857773-9	
3	PAKTECH INSTRUMEN	is Co. Nav	42201-5588139	-3 '0333
4	Reguland Company	Insuppl D.		0300/8232768
5	Regvi and Company	or Sambre Au	42201-5291436-	7 0332316
6	,			
7			/	
8				
9				
0				
11				
12				
3				
4				

Muhammae Asif Procurement Officer DUET, Karachi Member/Secretary S. M. Shabbir Director Finance DUET, Karachi Member

Deputy Director (Proc) QUEST, Nawabshah External Member Muhammad Hashim Director (P&D) QUEST, Nawabshah, External Member Shuhab Afroz Director QEC, DUET, Karachi Convener



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Date: 12-05-2015

Procurement Committee Members Attendance Sheet On Tender Opening of Technical Envelopes

Method of Procurement: Single Stage Two Envelope

Date of Opening: 12-05-2015 SPPRA Serial No: 23691

Title: Procurement of Laboratory Equipment's for Electronics Engineering Dept.

Venue: DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET),

KARACHI

S No.	Members		Signature	Remarks
1	Shahab Afroz Convener	DEAN Faculty of Engineering, DUET, Karachi	do 1-	
2	S. M. Shabbir, Member	Director Finance, DUET, Karachi	Just 1	16
3	Muhammad Asif , Member/Secretary Procurement Officer, Directorate of Finance, DUET, Karachi		Photos	\ S
4 Mr. Muhammad Hashim, External Member		Director (P & D) Directorate of Planning Quaid-e-Awam University of Engineering, Science & Technology (QUEST), Nawabshah	(a)	1
5	Abdul Hafeez Siddiqi, External Member	Deputy Director Procurement, Directorate of Finance, Quaid-e-Awam University of Engineering, Science & Technology (QUEST), Nawabshah	2	



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No: DUET/REG/PC/2014-15/33

Dated: 15-04-2015

NOTIFICATION

The Vice Chancellor Dawood University of Engineering & Technology (DUET), Karachi has been pleased to constitute the following Procurement committee for the procurement of Laboratory Equipment's for the Department of Electronics Engineering at DUET, Karachi in accordance with SPPRA Rules 2010 (amended 2013)

S No.	Name of the officials Designation		Status	Remarks
1 Mr. Shuhab Afroz		Director QEC, DUET	Convener	-
2	Mr. S. M. Shabbir	Director Finance, DUET	Member	
3	Mr. Muhammad Hashim	Director (P&D), QUEST, Nawabshah	External Member	
4	Mr. Abdul Hafeez Siddiqui	Deputy Director Procurement Directorate of Finance, QUEST, Nawabshah	External Member	
5	Mr. M. Asif Mughal	Procurement Officer DUET	Member/Secretary	

Function & Responsibilities of Procurement Committee:-

- (1) Preparing Bidding Documents
- (2) Carrying out technical as well as financial evaluation of the bids;
- (3) Preparing evaluation report as provided in Rule 45 of SPPRA
- (4) Perform any other function ancillary and incidental to the above.

C.C to:

- 1. PS to Vice Chancellor, DUET, Karachi
- 2. PS to Vice Chancellor, QUEST, Nawabshah.
- 3. All members of the committee
- 4. For Office Record

REGISTRAR

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DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET)

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Date: 12-05-2015

TECHNICAL MINUTES OF THE MEETING HELD AT DUET REGARDING PROCUREMENT OF LABORATORY EQUIPMENTS OF ELECTRONICS ENGINEERING DEPARTMENT FOR DUET

- 1. Meeting of the Procurement Committee of this Department was held on 12-05-2015 at the conference room of VC Secretariat in order to undertake the Technical Proposal of the bids submitted against the DUET Notice Inviting Tenders (NIT) regarding "Procurement of Laboratory Equipment's of Electronics Engineering Department" published in Daily Dawn, Jang & Awami Awaz on 17-04-2015 vide advertisement No. INF/KRY/1447/15 & hoisted the same on SPPRA website with Sr. No. 23691. A Corrigendum was also issued into three different leading newspapers i.e. The News/English, Jang/Urdu and daily Awami Awaz/Sindhi with the respective language of the newspapers vides advertisement No. INF/KRY/1723/15, dated: 05-05-2015
- The Following Members of Procurement Committee were present at the time of opening of Technical Proposals / Bids:
- Mr. Shahab Afroz,
 Director QEC, DUET, Karachi

Convener

Mr. S. M. Shabbir,
 Director Finance, DUET, Karachi

Member

Mr. Muhammad Hashim,
 Director (P&D), QUEST, Nawabshah

Member

Mr. Abdul Hafeez Siddiqui,
 Deputy Director Procurement, QUEST, Nawabshah

Member

 Mr. M. Asif Mughal, Procurement Officer, DUET, Karachi Member/Secretary

- In response to the Tender advertisement, the following Bidders submitted their Bids within the deadline of submissions of Bids & were present at the time of opening of the Technical Proposals.
- 1. M/S RASTEK TECHNOLOGIES
- 2. M/S NATIONAL SCIENTIFIC CORPORATION
- 3. M/S PAKTECH INSTRUMENTS
- 4. M/S RIZVI AND COMPANY
- 5. M/S INTERMARK (PVT) LTD
- 4. The bids were opened at 01:00 pm in the presence of the above mentioned participants. All the members of the Procurement Committee signed each sealed envelopes of the Technical Bids and also Technical Documents.
- The Committee proceeded as per the procedure prescribed in rule-46 (2) of SPPRA Rules 2010 (amended 2013). Initially only the envelopes marked as "Technical Proposals" were



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opened in presence of Bidders and the envelopes marked as Financial Proposals retained in the custody of Procurement Committee without being opened.

- 6. The Procurement Committee than examined all the Technical Bids / Proposals without reference to the Prices as per the Preliminary Requirements & Eligibility Criteria provided in the Bidding Documents & verified the documents submitted by the bidders on the basis of Technical Specification, Schedule of Requirements & as per ITB Clause 13.3 d , 24 & 25 mentioned in Bidding Documents.
- 7. After detailed evaluation & examined the specifications provided by the above mentioned Bidders the following Bidders were found not qualified technically as per the specifications provided/mentioned in the "TECHNICAL SPECIFICATIONS & SCHEDULE OF REQUIREMENTS" & per criteria, other terms & conditions mentioned in the bidding documents.
 - 1. M/S NATIONAL SCIENTIFIC CORPORATION
 - M/S RIZVI & COMPANY 2.
- 8. The following Bidder was disqualified being non-Complaint for not producing evidences as specified in the tender documents.
 - 1. M/S INTERMARK (PVT) LTD.
- 9. The following Bidders were qualified in Technical Evaluation after detailed evaluation (sheet attached)
 - M/S PAKTECH INSTRUMENTS COMPANY 1.
 - M/S RASTEK TECHNOLOGIES
- 10. On the basis of Technical Evaluation Procurement Committee proposed to open the Financial Proposal of M/S PAKTECH INSTRUMENTS COMPANY & M/S RASTEK TECHNOLOGIES.

The meeting ended with the vote of thanks to and from the chair.

ughal Procurement Officer DUET, Karachi

Member/Secretary

Siddiou Deputy Director (Proc) QUEST, Nawabshah

External Member

Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member

S. M. Shabbir Director Finance, DUET, Karachi Member

Shahab Afro; Director QL DUET, Karachi Member/Convener



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Date: 25-05-2015

MINUTES OF BID MEETING FOR OPENING OF FINANCIAL PROPOSAL HELD ON May 25, 2015 REGARDING PROCUREMENT OF LABORATORY EQUIPMENTS OF ELECTRONICS ENGINEERING DEPARTMENT, DUET

Meeting of the procurement committee of this department was held on 25-05-2015 in the conference room of VC Secretariat in order to undertake the Financial Appraisals of M/S PAKTECH INSTRUMENTS and M/S RASTEK TECHNOLOGIES who were qualified in Technical Proposal, against the DUET NIT "Procurement of Laboratory Equipments of Electronics Engineering Department" published in Daily Dawn/English, Jang/Urdu & Awami Awaz/Sindhi on 17-04-2015 vide advertisement No. INF/KRY/1447/15 & hoisted the same on SPPRA website with Sr. No. 23691 & DUET own website i.e. www.duet.edu.pk. A Corrigendum was also issued into three different leading newspapers i.e. The News/English, Jang/Urdu and daily Awami Awaz/Sindhi with the respective language of the newspapers vides advertisement No. INF/KRY/1723/15)

The following members of the procurement committee were present at the time of opening of Financial Bids:

Mr. Shahab Afroz, Director QEC, DUET, Karachi

Convener

· Mr. S. M. Shabbir, Director Finance, DUET, Karachi

Member

Mr. Muhammad Hashim, Director (P&D)
 QUEST, Nawabshah

Member

 Mr. Abdul Hafeez Siddiqui, Deputy Director-Procurements QUEST, Nawabshah

Member

 Mr. M. Asif Mughal, Procurement Officer Directorate of Finance, DUET, Karachi Member/Secretary

- 2. The following bidders were present at the time of opening of Financial Proposals:
 - 1) M/S PAKTECH INSTRUMENTS
 - 2) M/S RASTEK TECHNOLOGIES
- 3. The bids were opened at (01:00 pm) in the presence of the above mentioned participants and the rates quoted by bidders were read aloud and encircled by Chairman of the Procurement Committee. All the members of the procurement committee signed each and every page of financial proposal/ bids. The bids do not contain any over-writing or cutting.

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Following is the details of bids announced:

S. No.	Name of Bidder	Offered Price (PKR)	Amount of Bid Security	Pay Order No./ Date	Remarks
1	M/S PAKTECH INSTRUMENTS	1,353,832	75,000	11963172	Quoted Rate for 01 item on Sr. 16 as per the schedule of requirements & technical specifications
2	M/S RASTEK TECHNOLOGIES	15,293,208	1,521,000	011907	Quoted Rates for the items i.e. from Sr. 1 to 16 of schedule of requirements

- 4. The above statement illustrated that M/S PAKTECH INSTRUMENTS Quoted Rates only for 01 item (i.e. on Sr. No. 16) as per the Technical Specifications & Schedule of Requirements whereas M/S RASTEK TECHNOLOGIES quoted the rates for all items (i.e. From Sr. No. 01 to 16) as per Technical Specifications & as per schedule of requirements
- The committee shall examine all the bids as per the criteria provided in the bidding documents, arithmetical checks and verify the documents and bid security submitted by the bidders.

The meeting ended with the vote of thanks to and from the chair.

M Asif Moghal Procurement Officer DUET, Karachi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member Abdul Hafeez Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member Shahab Afroz Khan Director/QEC DUET, Karachi Member/Convener



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TECHNICAL EVALAUTION Passing Marks minimum 50%

	echnical Evaluation (TE) for Procurement of quipment's of Electronics Engineering Dep			Paktech Instruments Company	Rizvi & Company	Raztek Technologies	National Scientific Corporation
1	Technical Specifications (As per specified in Tender Documents)			1	II	=	IV
	100% as per technical specification	20	20			15	
	50% ≥ 100 % as per technical specification	10		7	8		7
2	Delivery (as per Schedule of Requirements in Ten Documents)	der	20				
	45 Days (7 weeks)	20				13	
	More than 7 Weeks	10		5	3		3
3	Warranty Provided (as per tender docum & as per ITB Clause 15.1 & 15.2 i.e. 12 Months minimum	ent	10				
	Provided by bidder	10		10	10	10	10
	Not Provided by bidder	0					
4	Manufacturer Authorization Certificate Mentioned in Tender Documents						
	Provided	10	10	10	10	10	10
	Not Provided	0					
5	Subject to no of experiments required per module as per technical spe	cs					
	100%	5	5	4		5	4
	less than 100% above 75%	3			3		
6	Training of Procuring Agency Personnel Equipment as per ITB Clause 13.1 e	on				- 31	
	Mentioned by bidder	10	10	14.7		5	
	Not Mentioned by bidder	0					
7	Make/Manufacturer						
	U.S.A	5				3	
	Japan / Korea / Taiwan/Europe	3	5	3	3		2
	China & local	2					

M AsiPMughal Procurement Officer DUET, Karathi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member Abdul Hafeaz Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member

Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member Shahab Aroz Khan Director QEC DUET, Karachi Member/Convener



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Relevant Experience in Academia (minimum 10 years as mentioned)		, ,				
10 or More Years	5	5	3	3	5	5
Less than 10 Years	2					
Installation		5				
(a) Free of Cost	5	,	5	5	5	-
(b) On cost basis	2					
Fulfillments of requirements		10	4	4	10	4
Total Marks for Technical Evaluation		100	51	49	81	45
Remarks			Qualified	Not Qualified	Qualified	Not Qualified
	(minimum 10 years as mentioned) 10 or More Years Less than 10 Years Installation (a) Free of Cost (b) On cost basis Fulfillments of requirements Total Marks for Technical Evaluation	(minimum 10 years as mentioned) 10 or More Years 5 Less than 10 Years 2 Installation (a) Free of Cost 5 (b) On cost basis 2 Fulfillments of requirements Total Marks for Technical Evaluation	(minimum 10 years as mentioned) 5 10 or More Years 5 Less than 10 Years 2 Installation (a) Free of Cost 5 (b) On cost basis 2 Fulfillments of requirements 10 Total Marks for Technical Evaluation 100	(minimum 10 years as mentioned) 5 10 or More Years 5 Less than 10 Years 2 Installation 5 (a) Free of Cost 5 (b) On cost basis 2 Fulfillments of requirements 10 Total Marks for Technical Evaluation 100	(minimum 10 years as mentioned) 5 10 or More Years 5 Less than 10 Years 2 Installation 5 (a) Free of Cost 5 (b) On cost basis 2 Fulfillments of requirements 10 4 Total Marks for Technical Evaluation 100 51 49 Remarks Qualified Not	(minimum 10 years as mentioned) 5 10 or More Years 5 Less than 10 Years 2 Installation 5 (a) Free of Cost 5 (b) On cost basis 2 Fulfillments of requirements 10 4 4 10 Total Marks for Technical Evaluation 100 51 49 81

Procurement Officer DUET, Karach Member/Secretary

S. M. Shabbir **Director Finance** DUET, Karachi Member

Abdul Hafeez Siddiqui Deputy Director (Proc) Director (P&D) QUEST, Nawabshah External Member

Muhammad Hashim QUEST, Nawabshah **External Member**

Shahab Affoz Khan Director QEC DUET, Karachi Member/Convener

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DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET)

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Date: 25-05-2015

MINUTES OF BID MEETING FOR OPENING OF FINANCIAL PROPOSAL HELD ON May 25, 2015 REGARDING PROCUREMENT OF LABORATORY EQUIPMENTS OF ELECTRONICS ENGINEERING DEPARTMENT, DUET

Meeting of the procurement committee of this department was held on 25-05-2015 in the conference room of VC Secretariat in order to undertake the Financial Appraisals of M/S PAKTECH INSTRUMENTS and M/S RASTEK TECHNOLOGIES who were qualified in Technical Proposal, against the DUET NIT "Procurement of Laboratory Equipments of Electronics Engineering Department" published in Daily Dawn/English, Jang/Urdu & Awami Awaz/Sindhi on 17-04-2015 vide advertisement No. INF/KRY/1447/15 & hoisted the same on SPPRA website with Sr. No. 23691 & DUET own website i.e. www.duet.edu.pk. A Corrigendum was also issued into three different leading newspapers i.e. The News/English, Jang/Urdu and daily Awami Awaz/Sindhi with the respective language of the newspapers vides advertisement No. INF/KRY/1723/15)

The following members of the procurement committee were present at the time of opening of Financial Bids:

Mr. Shahab Afroz, Director QEC, DUET, Karachi

Convener

Mr. S. M. Shabbir, Director Finance, DUET, Karachi

Member

Mr. Muhammad Hashim, Director (P&D)
 QUEST, Nawabshah

Member

 Mr. Abdul Hafeez Siddiqui, Deputy Director-Procurements QUEST, Nawabshah

Member

 Mr. M. Asif Mughal, Procurement Officer Directorate of Finance, DUET, Karachi

Member/Secretary

- 2. The following bidders were present at the time of opening of Financial Proposals:
 - 1) M/S PAKTECH INSTRUMENTS
 - 2) M/S RASTEK TECHNOLOGIES
- 3. The bids were opened at (01:00 pm) in the presence of the above mentioned participants and the rates quoted by bidders were read aloud and encircled by Chairman of the Procurement Committee. All the members of the procurement committee signed each and every page of financial proposal/ bids. The bids do not contain any over-writing or cutting.



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- The committee shall examine all the bids as per the criteria provided in the bidding documents, arithmetical checks and verify the documents and bid security submitted by the bidders.

The meeting ended with the vote of thanks to and from the chair.

M Asif Maghal Procurement Officer DUET, Karachi Member/Secretary

S. M. Shabbir Director Finance DUET, Karachi Member Abdul Hafeez Siddiqui Deputy Director (Proc) QUEST, Nawabshah External Member

Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member Shahab Afroz Khan Director QEC DUET, Karachi Member/Convener

COMPARATIVE STATEMENT

Procurement of Lab Equipments for Electronics Engineering Department

2			M/S RÁSTEK TE	CHNOLOGIES	M/S PAKTECH INSTRUMENTS		
S No.	Name of Item	QTY	Unit Price PKR	Total Price PKR	Unit Price PKR	Total Price	
1	Power Supply Board Computer based Test & Measurement Academic Platform (Include Oscilloscope, Function generator, Digital multimeter, Arbitrary waveform generator, Bode analyzer, 2-wire current voltage analyzer, 3-wire current voltage analyzer, Dynamic signal analyzer, Impedance analyzer, Digital reader, Digital writer, Variable power supply	10	396,550	3,965,500	Not Quoted	Not Quoted	
2	Micrprocessor Board 8086 microprocessor operating in minimum mode, with 16-bit data and 20-bit address bus. Two 82258 (32K x8)(256KB)SRAM for 16-RAM plus. Two 28C256(32K x 8)(256KB)EEPROM, 48-bit parallel I/O with FRC connector, RS-232 DB9 (9-pin subminiature D) serial port, PS/2 keyboard, 8-bit ADC,8-bit DAC, dip switches for special purpose addressing, 16-bit of timer and counter. Liquid crystal, 240 x 64 (30 x 8 characters) with backlight. 1.5 in x5.25 in readout Input: 100 to 240VAC/50 or 60Hz-Output DC: +5v, +12v and -12V and maximum current draw: 2A, Host transfer software for MS windows. External interfacing modules/cards for DC motor control or other applications	4	46,968	187,872	Not Quoted	Not Quoted	
3	8051 MICROCONTROLLER, PIC & AVR DEVELOPMENT 8. Traning System 1. Support MCU Writer Tool 2. LED and PUSH, and Toggle Switch 3. DOT Matrix (32×16Dots) 4. Graphic LCD (128×64Dots) 5. Text LCD (16×2Line) 6. 7'Segment 7. Volume, CDS, Thermo meter, Hygrometer 8. Serial EEPROM 9. Stepping Motor 10. DC Motor 11. DA Converter 12. DS1302 (Trickle Charge Timekeeping Chip) 13. DS1620 (Digital Thermometer) 14. Melody IC 15. 4X4 Keypad 16. IrDA 17. Relay	10	154,500	1,596,500	Not Quoted	Not Quoted	
	18. Hexa Rotary Switch 19. Optical Communication 20. USB Interface						
4	Digital Electronic Board Basic Digital Logic Circuit Board for ELVIS with following accessories Advance Digital Logic Circuit Board for ELVIS or 16 Modules covers , advance Electronics system will cover and comprising On FPGA Design Board for Elevis Or Equivalent	10	44,393	443,930	Not Quoted	Not Quoted	
5	Digital-Analog Training System Digital-Analog Training System is a platform equipped with built-in power supply (fixed and variable) and function generator (sine, triangle, square, TTL) as well as various common Input/output components, such as data switches, 7-segment display, LED indicators, speaker, etc.	10	35,329	353,290	Not Quoted	Not Quoted	
6	Industrial electronics Experiment Boards Includes Temperature & light control board, DC motor Control Board ,Sensor Measurement board, Industrial & Power Electronic board	2	453,200	906,400	Not Quoted	Not Quoted	
7	Virtual Instrumentation Trainer & LCR Meter Virtual Instrumentation Trainer Consist of: Oscilloscope Digital Multi meter Function Generator Power Supply 3 LCR Measurement Functions 1% Basic Accuracy Test Frequency 120 Hz/1kHz and equivalent circuit depends on selected measuring function & range High Resolution 0.1 uH, 0.1pF and 1mΩ Dissipation Factor Measurement Zero Adjustment	8	80,340	642,720	Not Quoted	Not Quoted	

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COMPARATIVE STATEMENT

Procurement of Lab Equipments for Electronics Engineering Department

		M/S RASTEK TE	CHNOLOGIES	- CONTY 1	UMENTS
Name of Item	QTY	Unit Price PKR	Total Price PKR	Unit Price PKR	Total Price
Analog Communication Digital Communication Computer based Test & Measurement Academic Platform (Include Oscilloscope, Function generator, Digital multimeter, Arbitrary waveform generator, Bobe analyzer, 2-wire current voltage analyzer, 3-wire current voltage analyzer, Dynamic signal analyzer, Impedance analyzer, Digital reader, Digital writer, Variable power supply includes following: Computer based 50 MHz Logic Analyzer and Pattern includes following: Analog Communications & Digital Communications					
TOPIC coverage Analog to digital experiment Digital to analog experiment PWM modulator experiment And AM/FM/TDM/FDM Modulator/Demodulator, PWM demodulator experiment, FSK modulator experiment, FSK modulator experiment, FSK modulator experiment, FSK modulator experiment, PSK / QPSK modulator / demodulator DSb-Sc/SSB Modulator/Demodulator, PCM Modulator, PCM Modulat	10		1,004,250	Not Quoted	Not Quoted
Digital Storage Oscilloscope 200 MHZ Digital Dual Channel Oscilloscope & Analog Oscilloscope 30MHz	4	39,037	156,148	Not Quoted	Not Quoted
MATLAB CAMPUS License with tools Communication, control system, embedded System Signal Processing, Image Processing, RF and Simulink	1	3,193,000	3,193,000	Not Quoted	Not Quoted
Nexys™3 Spartan-6 FPGA Board Or Equivalent Xilinx Spartan®-6 FPGA Intended for use with ISE, Web pack, or EDK Diligent USB2 port providing board power, programming, & data transfers 16MB Micron Cellular RAM, 16MB Micron Parallel PCM, 16MB Micron Quad-mode SPI PCM	3	33,990	101,970	Not Quoted	Not Quoted
Basys**2 Spartan-3E FPGA Board Or Equivalent Xilinx Spartan 3E FPGA (100K or 250K gates) Intended for use with ISE or Web pack Diligent USB2 port providing board power, programming, and data transfers VGA & PS/2 connectors	2	9,064	18,128	Not Quoted	Not Quoted
Control System Engineering Or Equivalent NI VTOL 1DOF Helicopter Board for NI ELVIS (Acad Only) -	2	324,450	648,900	Not Quoted	Not Quoted
Industrial Control Or Equivalent NI Rotary Inverted Pendulum Bd for NI ELVIS (Acad Only) -	2	324,450	648,900	Not Quoted	Not Quoted
ACS Trainer Or Equivalent Analog Control Trainer must cover following topics/experiments; 1.Closed loop DC servo motor speed / position control with PID controller experiment Inner-loop feedback control experiment Phase lead compensators experiment (1) Root locus technique Phase lead compensators experiment (2) Frequency domain design Phase lag compensators experiment (1) Root locus technique Phase lead-lag compensators experiment (1) Root locus technique Phase lead-lag compensators experiment (2) Root locus technique Phase lead-lag compensators experiment (3) Root locus technique Phase lead-lag compensators experiment (3) Frequency domain design Pole-zero cancellation experiment La PID Control system La Place Transform Experiment La System and Steady state, Simulation. Second order Derivate control system CS: Phase lead-lag compensators experiment La System and Steady state, Simulation.	2	100,000	200,000	Not Quoted	Not Quoted
	Analog Communication Digital Communication Computer based Test & Measurement Academic Platform (Include Oscilloscope, Function generator, Bobe analyzer, 2-wire current voltage analyzer, Digital reader, Digital variety, Impedance analyzer, Digital reader, Digital variety, Impedance analyzer, Digital reader, Digital variety, Impedance analyzer, Digital variety, Variety, Impedance analyzer, Digital variety, Var	Analog Communication. Digital Communication. Digital Communication. Computer based Test & Measurement Academic Platform (Include Oscilloscope, Function generator, Digital multimeter, Arbitrary waveform generator, Bobe analyzer, 2-wire current voltage analyzer, Dynamic signal analyzer, (Impedance analyzer, Digital reader, Digital writer, Variable power supply includes following: (Impedance analyzer, Digital reader, Digital writer, Variable power supply includes following: Analog Communications & Digital of series of the Variable power analog to digital experiment DPVM modulator experiment, Analog experiment PVM modulator experiment, FSK modulator experiment, FSK modulator experiment, FSK modulator experiment, FSK demodulator PVM modulator experiment, FSK demodulator PVM modulator PVM modu	Analog Communication Digital Communication Digital Communication Computer based Test & Sussessment Academic Platform (Include Oscilloscope, Computer based Test & Sussessment Academic Platform (Include Oscilloscope, Computer based Test & Sussessment Academic Platform (Include Oscilloscope, Computer based Test & Sussessment Academic Platform (Include Oscilloscope, Computer based Sol Mist Logic Analyzer and Pattern Includes following: Computer based Sol Mist Logic Analyzer and Pattern Includes following: Computer based Sol Mist Logic Analyzer and Pattern Includes following: Analog Communications & Digital Communications TOPIC coverage Analog Communications & Digital Communications TOPIC coverage New York Communication (Include Sol Mist Logic Analyzer and Pattern Includes following: PSK Modulator experiment, PSK demodulator PSK Modulator Academic Psk Modulator, PCM Modulator, PCM Modulator, PSK Modulator Academic Psk Modulator, PSK Modulator	Analos Communication Digital Communication Computer based Test & Measurement Academic Platform (include Oscilloscope, Function generator, Digital malarimeter, Arbitrary waveform generator, Base analyzer, 2-view correct voltage analyzer, 2-view correct voltage analyzer, 2-view correct voltage analyzer, Digital venture, Digital venture, Digital venture, Digital venture, Variation provider provider platform (include Stokewig) Communications & Digital communications Comm	Analos Communication. Digital Communication. Digital Communication. Digital Communication. Computer based relationship Communication.

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COMPARATIVE STATEMENT

Procurement of Lab Equipments for Electronics Engineering Department

S No.	Name of Item	QTY	M/S RASTEK TECHNOLOGIES		M/S PAKTECH INSTRUMENTS	
			Unit Price PKR	Total Price PKR	Unit Price PKR	Total Price PKR
16	Electrical Machine Lab 0.2Kw Or Equivalent Electric machines laboratories: 0.2 kW, Each laboratory is composed of: - Basic autonomous benches with power supplies capable of providing all voltages, in AC or DC, fixed and variable and stabilized in order to develop a course on electrical measurements and electrical machines; - Universal bases to assemble the machines and to couple them to the other machines of the laboratory; - Motors, generators, transformers, brakes, RLC loads, instrumentation and accessories to perform any test on electrical machines. Each electric machine is equipped with a comprehensive training manual showing all tests that can be performed at no-load and load conditions 1-Single Phase Transformer, 2- Squirrael cage motor, 3- Star delta Switch Unit 4- Three Phase Synchronous Machine, 5- Paraallel Board, 6- Compound excitation Motor, 7- Starting Rheostat, 8- Excitation Rheostat, 9- DC Dynomo meter, 10-Resistive Load, 11- Capacitive Load, 12-Inductive Load, 13- Power Supply for Brake, 14- Ammeter, Voltmeter 2 each and 1 power Meter, 15- Power Meter / Technometer, 16- Universal base, 17- Power Supply for Motor, 18. Connecting Leads, 19- Capacitor Motor 3 Phase, 20- Universal Motor, 21- Techo Meter	2	612,850	1,225,700	1,353,832	2,707,664
	Total		15,293,208		2,707,664	
	Remarks		Quoted rates	Quoted Rate for 01 item only (i.e. on Serial No. 16)		

Procurement Committee recommends "M/S RASTEK TECHNOLOGIES" for Award of Contract to the Competent Authority

DUET, Karachi

t Officer Deputy Director (Proc) QUEST, Nawabshah Member/Secretary External Member

Muhammad Hashim Director (P&D) QUEST, Nawabshah External Member

S. M Shabbir **Director Finance** DUET, Karachi Member

Director QEC DUET, Karachi Convener