



**MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY,**

**JAMSHORO - 76062, SINDH, PAKISTAN**

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**ISO-9001:2015  
Certified**

**DEPUTY DIRECTOR  
(Procurement)**

**“SAY NO TO CORRUPTION”**

No. DD(Proc.)/MUET/JAM/- 93,

Dated: 10-05-2024



**Mr. Rizwan Mehmood**

**Director (MIS)**

Public Procurement Regulatory Authority (PPRA),

Govt. of Pakistan.

Tel: 051-9205728

Subject: **PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EVALUATION REPORT  
PROFORMA AGAINST PPRA REFERENCE NO. TS528618E DATED 26-12-2023.**

Reference: **PPRA Rule – 35 (Announcement of evaluation reports).**

Dear Sir,

Please find enclosed herewith duly filled and signed Evaluation Report for the tender invited for the work, “Procurement of Lab Equipment for Mechatronic Engineering Department at MUET, Jamshoro (Re-invited)”.

This is for your information and uploading of the same on PPRA website please.

Yours Faithfully,

  
16/5/2024  
**DEPUTY DIRECTOR  
(PROCUREMENT)**

Copy f.w.cs for information to:-

1. The Secretary to Vice Chancellor, MUET, Jamshoro.
2. All members of Procurement / Assessment Committee.



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO

**EVALUATION REPORT**

(As per Rule-35 of PP Rules, 2004)

- 1 Name of Procuring Agency: Mehran University of Engineering & Technology, Jamshoro, Sindh, Pakistan
- 2 Method of Procurement: Single Stage - Two Envelope Procedure
- 3 Title of Procurement: Procurement of Lab Equipment for Mechatronic Engineering Department at MUET, Jamshoro (Re-invited)
- 4 Tender Inquiry No.: DD(Proc.)/MUET/JAM/-214, Dated: 20-12-2023
- 5 PPRA Reference No. (TSE): TSS28618E dated 26-12-2023
- 6 Date & Time of Bid Closing: January 16, 2024 @ 11:00 a.m. (Technical Proposal)
- 7 Date & Time of Bid Opening: March 15, 2024 @ 11:30 a.m. (Financial Proposal)
- 8 No. of Bid Received: 05 Nos and out of which (01 Bid) was rejected
- 9 Criteria for Bid(s) Evaluation: Single Stage - Two Envelope Procedure and as per Evaluation Criteria defined in bidding Document.
- 10 Details of Bid(s) Evaluation: After evaluation of bids by the Procurement / Assessment Committee, the recommendations as made as under:

Compliance of Bidders with Technical Proposals				
S. No	Name of Firm	Max. Marks	Marks Obtained	Remarks
1	2	3	4	9
1	M/s Al-Waqas Associates, Lahore	100	96	Technically Qualified
2	M/s Paktech Instruments Company, Karachi	100	98	Technically Qualified
3	M/s Textitech, Karachi.	100	87	Technically Qualified
4	M/s Nordtec International, Karachi	100	76	Technically Qualified
5	M/s Jatoi & Company JV Rastek Technologies, Karachi			Bid Rejected due to invalid Joint Venture of both firms

\* Maximum Score for qualifying is: 70

*[Handwritten signatures and initials]*

The financial proposals of the Technically Qualified Bidders were opened and the recommendations were made as under:

S. No.	Name of Bidder	Items	Quantity	Evaluated Cost (PKR)	Rule / Regulation / SBD/Policy/ Basis for Rejection / Acceptance as per Rule 35 of PP Rules, 2004
1	M/s Paktech Instruments Company, Karachi	<p><b>Item No. MTE-01</b> Base Platform NI ELVIS III Model No. 130ST Console Manufacture M/s NIDA Corporation, USA</p> <p><b>Item No. MTE-05</b> Mechatronic sensors board for NI ELVIS III Transducer Experiment Card Set Model 1405 Manufacture M/s NIDA Corporation, USA</p>	3	11,158,974.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.
2	M/s Al-Waqas Associates, Lahore	<p><b>Item No. MTE-06</b> 100MHZ Dual Channel Digital storage Oscilloscope Model No. UNI-T UTD 2102 CEX</p> <p><b>Item No. MTE-08</b> SWEEP Function Generator with digital control Model: UNI-T UTG 2122B</p>	4	800,000.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.
			4	1,880,000.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.




S. No.	Name of Bidder	Items	Quantity	Evaluated Cost (PKR)	Rule / Regulation / SBD/Policy/ Basis for Rejection / Acceptance as per Rule 35 of PP Rules, 2004
3	M/s Nordtec International, Karachi	Item No. MTE-11 PLC with accessories (programming cable, programmer, etc.)	1	3,625,000.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.
		Item No. MTE-14 Intel Core i7, 12700 Tray Gigabyte H610Mh, 512 GB NWME SSD AIGo 500 Watt Syppy, Card RX580 8 GB	40	12,760,000.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.
		Item No. MTE-15 Intel Core i7, 12700 Tray Gigabyte H610Mh, 512 GB NWME SSD AIGo 500 Watt Syppy, Card RX580 8 GB	40	12,760,000.00	Evaluation / selection of Equipment has been made in accordance with the Evaluation Criteria by the Departmental Experts as mentioned in the Bidding Documents.


Item Nos: MTE-14 & 15 are dropped and will be re-invited due to not providing valid authorization letter of manufacturer by the vendor. *See R.*


Item Nos. MTE-02, 03, 04, 07, 09, 10, 12 & 13 have been dropped due to Budget Constraints

11 Any other additional / supporting information, the procuring agency may like to share: \_\_\_\_\_

  
Mr. Nadeem Soomro,  
Deputy Director (Procurement)  
MUET, Jamshoro, Member / Secretary,

  
Engr. Mukesh Kumar,  
Project Director,  
SABS University of Arts, Design & Heritages,  
Jamshoro / Member

  
Prof. Dr. Javaid Daudpota,  
Chairman,  
Mechatronic Engineering Department,  
MUET, Jamshoro / Member

  
Mr. Javaid Riaz,  
Project Director,  
HEJ Research Institute of Chemistry,  
University of Karachi / Member

  
Mr. Saghir Ahmed Memon,  
Director (Works & Strategic Planning),  
MUET, Jamshoro / Convener




S. No.	Evaluation Parameters		Brief	M/s Al-Waqas Associates, Lahore	M/s Paktech Instruments Company, Karachi	M/s Nordtec International, Karachi	M/s Textiech, Karachi
	Company / Firm / Individual Information	Marks					
4	Annual Turnover of last 05 years	10	<ul style="list-style-type: none"> <li>➤ 10 marks are given if the available average annual turnover for last three years is equal to or above PKR 50,000 Million</li> <li>➤ 05 marks are given if the available average annual turnover for last three years is equal to or above PKR 25,000 Million</li> <li>➤ No marks shall be given if available average annual turnover for last three years is below 25,000 Million</li> <li>➤ 05 Marks of 03 years GST &amp; Income Tax Paid Returns</li> <li>➤ 03 Marks of 02 years GST &amp; Income Tax Paid Returns</li> <li>➤ 01 Marks of 01 year GST &amp; Income Tax Paid Returns</li> </ul>	10	10	10	10
5	Annual Income Tax Returns of Last 03 Years	5	<ul style="list-style-type: none"> <li>➤ 05 Marks of 03 years Financial Statement Report</li> <li>➤ 03 Marks of 02 years Financial Statement Report</li> <li>➤ 01 Marks of 01 year Financial Statement Report</li> </ul>	5	5	5	5
6	Audited Financial Statements of Last 03 years	5	<ul style="list-style-type: none"> <li>➤ 05 Marks of 03 years Financial Statement Report</li> <li>➤ 03 Marks of 02 years Financial Statement Report</li> <li>➤ 01 Marks of 01 year Financial Statement Report</li> </ul>	5	3	3	3
7	OEM manufacturer / Distributors authorization Letter	15	<ul style="list-style-type: none"> <li>➤ Letter of authorization of manufacturer, dealer / agent.</li> </ul>	15	15	15	15
8	Technical Evaluation of offered lab equipment	20	<p>Will be evaluated by the Technical Experts of concerned department for required specifications of Lab Equipment given in the bidding document</p> <p>Marks will be allocated:</p> <ul style="list-style-type: none"> <li>• Fully complied 100%</li> <li>• Partial complied 60%</li> <li>• Less complied 30%</li> </ul>	16	20	16	16



  


  
 28.




Evaluation Parameters		Marks	Brief	M/s Al-Waqas Associates, Lahore	M/s Paktech Instruments Company, Karachi	M/s Nordtec International, Karachi	M/s Textitech, Karachi
S. No.	Company / Firm / Individual Information						
10	Completed Projects of Similar nature	15	<p><b>BREAK UP OF 15 MARKS</b></p> <p>➤ 10% marks will be given if the bidder have similar nature of project worth of Rs. 10,000 Million (Proof Required)</p> <p>➤ 25% marks will be given if bidder have similar nature of project worth of Rs. 20,000 Million (Proof Required)</p> <p>➤ 50% marks will be given if bidder have similar nature of project worth of Rs. 30,000 Million (Proof Required)</p> <p>➤ 75% marks will be given if bidder have similar nature of project worth of Rs. 40,000 Million (Proof Required)</p> <p>Ø 100% marks will be given if bidder have similar nature of project worth of 50,000 &amp; above Million (Proof Required)</p>	15	15	2	8
11	Litigation history of the firm	3	<ul style="list-style-type: none"> <li>No history in litigation (03 marks)</li> <li>One Case pending against (02 marks)</li> <li>More than one cases against (0 / Zero marks)</li> </ul> <p>(An Undertaking to this effect will be required)</p>	3	3	3	3
12	Head Office / Establishment	2	Head office of the bidder with establishment / staff details (Postal address / Landline / Mobile phone number / email / website)	2	2	2	2
<b>Total Marks</b>		<b>100</b>		<b>96</b>	<b>98</b>	<b>76</b>	<b>87</b>

  
**Mr. Nadeem Soomro,**  
 Deputy Director (Procurement)  
 MUET, Jamshoro, Member / Secretary

  
**Engr. Mukesh Kumar,**  
 Project Director,  
 SABS University of Arts, Design & Heritages,  
 Jamshoro / Member

  
**Prof. Dr. Javaid Daudpota,**  
 Chairman,  
 Mechatronic Engineering Department,  
 MUET, Jamshoro / Member

  
**Mr. Javaid Riaz,**  
 Project Director,  
 HEJ Research Institute of Chemistry,  
 University of Karachi / Member

  
**Mr. Saghr Ahmed Memon,**  
 Director (Works & Strategic Planning),  
 MUET, Jamshoro / Convener



## MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY, JAMSHORO

Name of Work: PROCUREMENT OF LAB EQUIPMENT FOR MECHATRONIC ENGINEERING DEPARTMENT AT MUET, JAMSHORO (RE-INVITED).

### MINUTES OF MEETING:

A meeting for opening of the Financial Proposals of the tender for the work, "Procurement of Lab Equipment for Electronic Engineering Department at MUET, Jamshoro" was held on **15-03-2024 at 11:00 a.m.**, in the Office of the Director (Works & Strategic Planning), MUET, Jamshoro. The following members of Procurement / Assessment Committee were present.

- |  |                   |
|--|-------------------|
| 1. Mr. Saghir Ahmed Memon,<br>Director (W&SP, MUET, Jamshoro.  | Convener          |
| 2. Prof. Dr. Javaid Daudpota,<br>Chairman, Department of MTE Department,<br>MUET, Jamshoro.                | Member            |
| 3. Mr. Javaid Riaz,<br>Project Director,<br>HEJ Research Institute of Chemistry,<br>University of Karachi. | Member            |
| 4. Mr. Mukesh Kumar,<br>Project Director,<br>SABS University of Arts, Design & Heritages, Jamshoro.        | Member            |
| 5. Mr. Nadeem Soomro,<br>Deputy Director (Procurement), MUET, Jamshoro.                                    | Member/ Secretary |

The Deputy Director (Procurement) briefed the Committee members that the sealed percentage/ Item Rate Tender was invited as per PP Rules 2004, Govt. of Pakistan for the said work vide NIT No. & Dated: DD(Proc.)/MUT/JAM/-214, 20-12-2023, by adopting Single Stage – Two Envelope Procedure. Purchasing Date starting from 26-12-2023 to 15-01-2024, whereas; submission Date on 16-01-2024 upto 10:30 A.M, whereas, Opening Date of the bid was 16-01-2024 @ 11:00 A.M. The Deputy Director (Procurement) further briefed that Five (05) bidders purchased the Bidding Documents and submitted the same in-time. Accordingly; the Technical Proposals of the bidders were opened in presence of bidders. Lateron, the said proposals were sent to Chairman, Mechatronic Engineering Department vide letter No. DD(Proc)/MUET/JAM/-18 dated 24-01-2024 for technical evaluation of equipment alongwith the departmental technical experts which should fulfill requirements. After thorough evaluation of all bidders in accordance with Technical Evaluation Criteria given in the bidding document and it was observed that out of five (05) bidders four (04) bidders were qualified and one (01) bidder i.e. M/s Jatoi & Company JV Rastek Technologies, Karachi were rejected due to invalid Joint Venture. (**Technical Report attached**). Subsequently, the date for opening of the Financial Proposals of the four (04) technically qualified bidders was fixed on 15-03-2024 @ 11:00 A.M. Then the bidders were called in the Office of Director (W&SP), so that financial proposals can be opened in their presence under **Rule-28(02) of PP Rules 2004, Govt. of Pakistan**. The following Bidders took part in the bidding process as under:

1. M/s Paktech Instruments Company, Karachi
2. M/s Al-Waqas Associates, Lahore
3. M/s Nordtec International, Karachi
4. M/s Jatoi & Company JV Rastek Technologies, Karachi
5. M/s Texitech, Karachi

Copy of Attendance Sheet attached



The Committee started the proceedings of opening of financial proposals in-front of the bidders and read aloud the names of each bidder one by one by opening their respective financial proposal and also read aloud bid amount and other details as depicted under:

1.	M/s Paktech Instruments Company, Karachi	<b>Comparative Statement Attached</b>
2.	M/s Al-Waqas Associates, Lahore	
3.	M/s Nordtec International, Karachi	
4.	M/s Texitech, Karachi	

In the light of above, the committee resolved that the final item-wise recommendations be got prepared by the Departmental Technical Experts within the available provision of funds in the PC-I scheme and agreed to procure equipment to be selected by the departmental committee / experts and award the work to most advantageous bidders on item-rate basis. Further it was resolved that Rule – 38B of PP Rules, 2004 be followed for the items quoted by single vender.

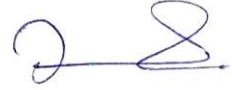
The meeting ended with the vote of thanks to all members.



**Mr. Nadeem Soomro**  
Deputy Director (Procurement)  
MUET, Jamshoro/  
Member / Secretary



**Engr. Mukesh Kumar,**  
Project Director,  
SABS University of Arts, Design &  
Heritages, Jamshoro/  
Member



**Prof. Dr. Javaid Daudpota,**  
Professor / Chairman,  
Mechatronic Engineering Department  
MUET, Jamshoro/  
Member



**Mr. Javaid Riaz,**  
Project Director,  
HEJ Research Institute of Chemistry,  
University of Karachi /  
Member



**Mr. Saghir Ahmed Memon,**  
Director (Works & Strategic Planning),  
MUET, Jamshoro/  
Convener

**COMPARATIVE STATEMENT FOR PROCUREMENT OF LAB EQUIPMENT FOR MECHATRONIC ENGINEERING DEPARTMENT AT MUET, JAMSHORO (RE-INVITED).**

Item Code	Description of Items	Qty	M/s Pakistan Instruments Company, Karachi		M/s Alkhalifa Instruments, Lahore		M/s Nadeem Instrumental, Karachi		M/s Teesha, Karachi	
			Unit Rate	Amount R.	Unit Rate	Amount R.	Unit Rate	Amount R.	Unit Rate	Amount R.
<b>I. ROBOTICS AND CONTROL LABORATORY</b>										
MTE-01	Base Platform NI ELVIS III Specifications: Oscilloscope: 4 ch. 400 MS/s, 14 bit Function Generator: 2 ch. 100 MS/s, 15 MHz, 14 bit Logic Analyzer/Pattern Generator: 16 ch. 100 MS/s TV Analyzer: ±10 V, ±20 mA, 15 MHz Digital Multimeter: 4 1/2 digits Variable Power Supply: ±15 V, 500 mA Processor: EPIC4 Xilinx Zynq-7020 AI AO: 16 ch. 16 bit DIO: 40 ch SFP Support: Windows, Mac, Web Enclosure: metal, NI compact <b>OR Equivalent</b>	3	3,719,658.00	11,158,974.00	N/Q	-	N/Q	-	N/Q	-
MTE-02	Mechatronics System Board for NI ELVIS III Specifications: DC motor nominal input voltage: 18 V DC motor nominal speed: 3000 RPM DC motor nominal current: 0.54 A Encoder line count: 512 lines/rev Encoder resolution (in quadrature): 0.176 deg/count Amplifier type: PWM Amplifier continuous current: 2.5 A Amplifier nominal frequency: 20 kHz Camera type: CMOS VGA serial camera Image formats: JPEG and RAW Image resolutions: 160 x 128 / 320 x 240 / 640 x 480 (in JPEG mode) 80 x 60 / 160 x 120 / 128 x 128 / 128 x 96 (in RAW mode) <b>OR Equivalent</b>	2	778,803.00	1,557,606.00	N/Q	-	N/Q	-	N/Q	-
MTE-03	Mechatronics Actuator Board for NI ELVIS III Specifications: Brushed DC motor nominal input voltage: 24 V Brushed DC motor nominal speed: 8700 rpm Brushless DC motor nominal input voltage: 24 V Brushless DC motor nominal speed: 4600 rpm Stepper motor nominal input voltage: 5 V Stepper motor step angle: 15° Servo motor nominal operating voltage: 4.8 V - 6 V Servo motor nominal speed (no load): 0.19 s/60° (4.8 V) - 0.15 s/60° (6 V) Solenoid nominal operating voltage: 6 V Photomicrosensor typical rising and falling time: 4 µs Photomicrosensor resolution: 15° / count <b>OR Equivalent</b>	1	865,983.00	865,983.00	N/Q	-	N/Q	-	N/Q	-


Item Code	Description of Items	Qty	M/s. Paktech Instruments Company, Karachi		M/s. Al Wajida Associates, Lahore		M/s. Nordics International, Karachi		M/s. Textec, Karachi	
			Unit Rate	Amount Re.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.
<b>II. INSTRUMENTATION LABORATORY</b>										
MTE-04	<b>Base Platform NI ELVIS III</b> Specifications Oscilloscope 4 ch, 400 MS/s, 14 bits Function Generator 2 ch, 100 MS/s, 15 MHz, 14 bits Logic Analyzer/Pattern Generator 16 ch, 100 MS/s IV Analyzer ±10 V, ±30 mA, 15 MHz Digital Multimeter 4 1/2 digits Variable Power Supply ±15 V, 500 mA Processor FPGA Xilinx Zynq-7020 AI/AO 16 ch, 16 bits/4 ch, 16 bits DIO 40 ch SFP Support Windows, Mac, Web Enclosure metal, NI compass <b>OR Equivalent</b>	1	3,719,658.00	3,719,658.00	N/Q	-	N/Q	-	N/Q	-
MTE-05	<b>Mechatronic sensors board for NI ELVIS III</b> Specifications: Strain gauge nominal resistance 350 ± 2% Ω Pressure transducer range 60 to 165 ± 2 kPa Thermistor nominal resistance at 25o C 47000 ± 5% Ω Ultrasonic distance measuring range 15.24 to 645.16cm Ultrasonic distance resolution ±2.54 cm Infrared distance sensor measuring range 10 to 150cm Reflective optical sensor recommended sensing distance 6.35 deg Potentiometer mechanical angle range 280 deg. <b>OR Equivalent</b>	2	2,812,991.00	5,625,982.00	N/Q	-	N/Q	-	N/Q	-
MTE-06	<b>100MHz Dual Channel Digital storage Oscilloscope Channels 2</b> <b>OR Equivalent</b> Bandwidth 100MHz Sample Rate 1GS/s Rise Time <3.5ns Memory Depth 25kpts Waveform Acquisition Rate >2000wfms/s Vertical Sensitivity(V/div) 1mV/div~20V/div Time base Range(s/div) 2ns/div~50s/div Storage Setup, Wave, Bitmap Trigger Modes Edge, Pulse, Video, Slope, Alternate Interface USB OTG Power 100-240VAC, 45-440Hz Display 7 Inches 64k Color TFT LCD, 800-480 <b>OR Equivalent</b>	1	N/Q	-	200,000.00	200,000.00	N/Q	-	N/Q	-
MTE-07	<b>200MHz 4 Channel Oscilloscope</b> <b>OR Equivalent</b> Bandwidth 200MHz Sample Rate 1GS/s Waveform Interpolation (sin x)/x Record Length Maximum 64k samples per single-channel; Maximum 32k samples per dual-channel SEC/DIV Range 2ns/div~100s/div <b>OR Equivalent</b>	1	N/Q	-	495,000.00	495,000.00	N/Q	-	N/Q	-
MTE-08	<b>80MHz SWEEP Function Generator with digital control</b> 0.1Hz to 80MHz frequency range, Storage more than 30 instruments setups <b>OR Equivalent</b>	2	N/Q	-	470,000.00	940,000.00	N/Q	-	N/Q	-

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WJW

28-2-23



Item Code	Description of Items	Qty	M/s Faheeh Instruments (Company Karachi)		M/s Waqar Associates (Lahore)		M/s Tahir International (Karachi)		M/s Tahir Karachi	
			Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.
<b>III. INDUSTRIAL AUTOMATION LABORATORY</b>										
MTL-09	<b>Base Platform NIELVIS III</b> Specifications: Oscilloscope 4 ch, 400 MS/s, 14 bits Function Generator 2 ch, 100 MS/s, 15 MHz, 14 bits Logic Analyzer/Pattern Generator 16 ch, 100 MS/s IV Analyzer ±10 V, ±30 mA, 15 MHz Digital Multimeter 4 1/2 digits Variable Power Supply ±15 V, 500 mA Processor FPGA Xilinx Zynq-7020 AI/O 16 ch, 16 bits/4 ch, 16 bits, DIO 40 ch SFP Support Windows, Mac, Web Enclosure metal, NI compass <b>OR Equivalent</b>	1	3,719,658.00	3,719,658.00	N/Q	--	N/Q	--	N/Q	--
MTL-10	<b>Mechatronics Actuator Board for NIELVIS III</b> Specifications: Brushed DC motor nominal input voltage 24 V Brushed DC motor nominal speed 8700 rpm Brushless DC motor nominal input voltage 24 V Brushless DC motor nominal speed 4600 rpm Stepper motor nominal input voltage 5 V Stepper motor step angle 15° Servo motor nominal operating voltage 4.8 V - 6 V Servo motor nominal speed (no load) 0.19 s/60° (4.8 V) - 0.15 s/60° (6 V) Solenoid nominal operating voltage 6 V Photomicrosensor typical rising and falling time 4 µs Photomicrosensor resolution 15° / count <b>OR Equivalent</b>	1	1,999,316.00	1,999,316.00	N/Q	--	N/Q	--	N/Q	--
MTL-11	<b>PLC with accessories (programming cable, programmer, etc.)</b> Power supply: 230 VAC Output current: 2 A to 5 A Total number of points 32 Number of Analog inputs 04 Number of Digital inputs 12 Number of Analog outputs 04 Number of Digital outputs 12 Communication port: Ethernet ports, RJ-45, 10/100MHz Type A, USB ports, high speed Type mini B USB port, high speed RS485, Ability to expand YES <b>OR Equivalent</b>	2	N/Q	--	200,000.00	400,000.00	3,625,000.00	7,250,000.00	N/Q	--


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Item Code	Description of Items	Qty	M/s Pakesh Instruments Company, Karachi		M/s Al Waqas Associates, Lahore		M/s Parthiv International, Karachi		M/s Textec, Karachi	
			Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.
MTE-12	Human Machine Interface (HMI) Specifications Size 7"(800*480) 65,536 Colors TFT Core: A8 800MHz CPU 256 MB RAM 256 MB ROM 2 sets of COM ports / 1 extension COM port USB Host USB Client CE / UL certified Operation Temperature: 0°C - 50°C Storage Temperature: -20°C - 60°C Pressing times: >1,000K times OR Equivalent	3	N/Q	-	220,000.00	660,000.00	94,250.00	282,750.00	N/Q	-
MTE-13	Variable Frequency Drive (VFD) with Motor Nominal Input VAC: 208,240 Volts AC Input Range VAC: 200 to 240 Volts AC HP: 0.5 HP Amps (HDI): 2.8A Amps (ND): 3.2A Input Phase: 1 PH Operator Controls: Sold Separately. See Accessories Breaker Type: DC Injection, Dynamic Braking Dynamic Braking Trans: Included Frame Size: A3 OR Equivalent	3	N/Q	-	N/Q	-	N/Q	-	N/Q	-
<b>IV. COMPUTER LABORATORY</b>										
MTE-14	Desktop Computer / Workstations Specifications PC - 12th Gen Core i7 12700 F, H610M, 16GB DOR4, 512 GB SSD, standard case, 500 watt PSU, RX580 graphics card, wifi card, HD LED 19" size, Keyboard, Optical Mouse with pad HP / Dell or Equivalent	45	350,000.00	17,100,000.00	599,000.00	26,955,000.00	319,000.00	14,355,000.00	818,000.00	36,810,000.00
<b>V. SIMULATION &amp; MODELING</b>										
MTE-15	Desktop Computer / Workstations Specifications PC - 12th Gen Core i7 12700 F, H610M, 16GB DOR4, 512 GB SSD, standard case, 500 watt PSU, RX580 graphics card, wifi card, HD LED 19" size, Keyboard, Optical Mouse with pad HP / Dell or Equivalent	45	350,000.00	17,100,000.00	N/Q	-	319,000.00	14,355,000.00	818,000.00	36,810,000.00
<b>TOTAL AMOUNT RS.</b>				<b>62,847,177.00</b>		<b>29,650,000.00</b>		<b>36,242,750.00</b>		<b>73,620,000.00</b>

  
Nadeem Soomro,  
Deputy Director (Procurement)  
MUEIT, Jamshoro, Member / Secretary

  
Engr. Mukesh Kumar,  
Project Director,  
SAHS University of Arts, Design & Heritages,  
Jamshoro / Member

  
Mr. Jawaid Riaz,  
Project Director,  
HEI Research Institute of Chemistry,  
University of Karachi / Member

  
Prof. Dr. Jawaid Daudpota,  
Chairman,  
Department of Mechanical Engineering,  
MUEIT, Jamshoro / Member

  
Mr. Saqib Ahmed Memon,  
Director (Works & Strategic Planning),  
MUEIT, Jamshoro / Convener



**LIST OF SELECTED EQUIPMENT BY DEPARTMENTAL EXPERTS / TECHNICAL EVALUATION COMMITTEE FOR  
PROCUREMENT OF LAB EQUIPMENT FOR MECHATRONIC ENGINEERING DEPARTMENT AT MUET, JAMSHORO (RE-INVITED).**

Item Code	Description of Items	Qty	M/s. Paktech Instruments Company, Karachi		M/s. Al-Waqas Associates, Lahore		M/s. Nordtec International, Karachi		Remarks	
			Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.		
<b>I. ROBOTICS AND CONTROL LABORATORY</b>										
MTE-01	Base Platform NI ELVIS III Specifications: Oscilloscope 4 ch, 400 MS/s, 14 bits Function Generator 2 ch, 100 MS/s, 15 MHz, 14 bits Enclosure metal, NI compass OR Equivalent	3	3,719,658.00	11,158,974.00	-	-	N/Q	-	As recommended by the Departmental Experts / Technical Evaluation Committee	
MTE-02	Mechatronics System Board for NI ELVIS III Specifications: DC motor nominal input voltage 18 V DC motor nominal speed 3050 RPM DC motor nominal current 0.54 A OR Equivalent	1	-	-	N/Q	-	N/Q	-	This item dropped due to financial constraints	
MTE-03	Mechatronics Actuator Board for NI ELVIS III Specifications: Brushed DC motor nominal input voltage 24 V Brushed DC motor nominal speed 8700 rpm Brushless DC motor nominal input voltage 24 V Brushless DC motor nominal speed 4600 rpm OR Equivalent	1	-	-	N/Q	-	N/Q	-	This item dropped due to financial constraints	
<b>II. INSTRUMENTATION LABORATORY</b>										
MTE-04	Base Platform NI ELVIS III Specifications: Oscilloscope 4 ch, 400 MS/s, 14 bits Function Generator 2 ch, 100 MS/s, 15 MHz, 14 bits OR Equivalent	1	-	-	-	-	N/Q	-	This item dropped due to financial constraints	
MTE-05	Mechatronics sensors board for NI ELVIS III Specifications: Strain gauge nominal resistance 350 ± 2% Ω Pressure transducer range 60 to 165 ± 2 kPa Thermistor nominal resistance at 25°C 47000 ± 5% Ω OR Equivalent	2	2,812,991.00	5,625,982.00	N/Q	-	N/Q	-	As recommended by the Departmental Experts / Technical Evaluation Committee	
MTE-06	100MHz Dual Channel Digital storage Oscilloscope Specifications: Bandwidth 100MHz Sample Rate 1GS/s Rise Time 3.5ns OR Equivalent	4	N/Q	-	200,000.00	800,000.00	N/Q	-	As recommended by the Departmental Experts / Technical Evaluation Committee	

*Handwritten signature and date:*  
WBR  
22/08/23



Item Code	Description of Items	Qty	M/s. Paktech Instruments Company, Karachi		M/s. Al Waqas Associates, Lahore		M/s. Nordtec International, Karachi		Remarks
			Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	
MTI-07	<b>200MHz 4 Channel Oscilloscope</b> Bandwidth: 200MHz Sample Rate Range: 1GS/s Waveform Interpolation (sm S)x SEC/DIV Range: 2ns/div - 100ns/div OR Equivalent	1	N/Q	-	-	-	N/Q	-	This item dropped due to financial constraints
MTI-08	<b>50MHz SWEEP Function Generator with digital control</b> 0.1Hz to 80MHz frequency range. Storage more than 30 instruments setups OR Equivalent	4	N/Q	-	470,000.00	1,880,000.00	N/Q	-	As recommended by the Departmental Experts / Technical Evaluation Committee
<b>III. INDUSTRIAL AUTOMATION LABORATORY</b>									
MTI-09	<b>Base Platform NI ELVIS III</b> Specifications: Oscilloscope 4 ch, 400 MS/s, 14 bits Function Generator 2 ch, 100 MS/s, 15 MHz, 14 bits Logic Analyzer/Pattern Generator 16 ch, 100 MS/s OR Equivalent	1	-	-	N/Q	-	N/Q	-	This item dropped due to financial constraints
MTI-10	<b>Mechatronics Actuator Board for NI ELVIS III</b> Specifications: Brushed DC motor nominal input voltage 24 V Brushed DC motor nominal speed 8700 rpm Brushless DC motor nominal input voltage 24 V Brushless DC motor nominal speed 4600 rpm OR Equivalent	1	-	-	N/Q	-	N/Q	-	This item dropped due to financial constraints
MTI-11	<b>PLC with accessories (programming cable, programmer, etc.)</b> Power supply: 230 VAC Output current: 2 A to 5 A Total number of points 32 OR Equivalent	1	N/Q	-	-	-	3,625,000.00	3,625,000.00	As recommended by the Departmental Experts / Technical Evaluation Committee
MTI-12	<b>Human Machine Interface (HMI)</b> Specifications: OR Equivalent	3	N/Q	-	-	-	-	-	This item dropped due to financial constraints
MTI-13	<b>Variable Frequency Drive (VFD) with Motor</b> Nominal Input VAC: 208,240 Volts AC Input Range VAC: 200 to 240 Volts AC HP: 0.5 HP OR Equivalent	3	N/Q	-	-	-	N/Q	-	This item dropped due to financial constraints

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Item Code	Description of Items	Qty	Mrs. Pakkch Instruments Company, Karachi		Ms. A. Waqas Associates, Lahore		Ms. Nordtec International, Karachi		Remarks
			Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	Unit Rate	Amount Rs.	
<b>IV. COMPUTER LABORATORY</b>									
MTE-14	Desktop Computer / Workstations Specification PC - 12th Gen Core i7 12700 F, H610M, 16GB DDR4, 512 GB SSD, standard case, 500 watt PSU, RX580 graphics card, wifi card, HD LED 19" size, Keyboard, Optical Mouse with pad. HP / Dell or Equivalent	40	-	-	-	-	319,000.00	12,760,000.00	As recommended by the Departmental Experts / Technical Evaluation Committee
<b>V. SIMULATION &amp; MODELLING</b>									
MTE-15	Desktop Computer / Workstations Specification: PC - 12th Gen Core i7 12700 F, H610M, 16GB DDR4, 512 GB SSD, standard case, 500 watt PSU, RX580 graphics card, wifi card, HD LED 19" size, Keyboard, Optical Mouse with pad HP / Dell or Equivalent	40	-	-	N/Q	-	319,000.00	12,760,000.00	As recommended by the Departmental Experts / Technical Evaluation Committee
<b>TOTAL AMOUNT RS.</b>				16,784,956.00		2,680,000.00		29,145,000.00	
<b>Total Amount Rs.</b>									<b>48,609,956.00</b>

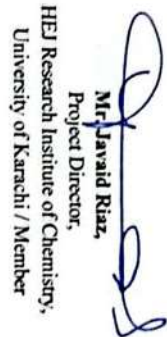
  
Nadeem Soomro,  
Deputy Director (Procurement)  
MUET, Jamshoro, Member / Secretary

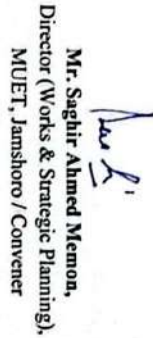
Engr. Mukesh Kumar,  
Project Director,  
SABS University of Arts, Design & Heritages,  
Jamshoro / Member



Prof. Dr. Jawaid Daudpoto,  
Chairman,  
Department of Mechatronics Engineering,  
MUET, Jamshoro / Member



  
Mr. Javaid Riaz,  
Project Director,  
HEJ Research Institute of Chemistry,  
University of Karachi / Member

  
Mr. Saghir Ahmed Memon,  
Director (Works & Strategic Planning),  
MUET, Jamshoro / Convener





**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO**

**ATTENDANCE SHEET**

Name of work: **Procurement of Lab Equipment for Mechatronic Engineering Department at MUET, Jamshoro (Re-invited).**

NIT No. DD(Proc)/MUET/JAM/-214 dated 20-12-2023  
PPRA ID No. TS528618E dated 26-12-2023

**FINANCIAL PROPOSALS**

OPENED ON 15-03-2024

S. No.	Name of Consultant / Firm	Contact No.	Signature
1.	M/s Al-Waqas Associates, Lahore	0301 8434602	
2.	M/s Paktech Instruments Company, Karachi	0331 3586876	
3.	M/s Jatoi & Company JV Rastek Technologies, Karachi		
4.	M/s Texitech, Karachi.		
5.	M/s Nordtec International, Karachi	0336-1357465 0333-2868132	

Nadeem Soomro,  
Deputy Director (Procurement)  
MUET, Jamshoro, Member / Secretary,

Engr. Mukesh Kumar,  
Project Director,  
SABS University of Arts, Design & Heritages,  
Jamshoro / Member

Mr. Javaid Riaz,  
Project Director,  
HEJ Research Institute of Chemistry,  
University of Karachi / Member

Prof. Dr. Jawaid Daudpoto,  
Chairman,  
Department of Mechatronics Engineering,  
MUET, Jamshoro / Member

Mr. Saghir Ahmed Memon,  
Director (Works & Strategic Planning),  
MUET, Jamshoro / Convener





**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO**

**ATTENDANCE SHEET**

Name of work: **Procurement of Lab Equipment for Mechatronic Engineering Department at MUET, Jamshoro (Re-invited).**

NIT No. DD(Proc)/MUET/JAM/-214 dated 20-12-2023  
PPRA ID No. TS528618E dated 26-12-2023

**TECHNICAL PROPOSALS**

OPENED ON 16-01-2024

S. No.	Name of Consultant / Firm	Contact No.	Signature
1.	M/s Al-Waqas Associates, Lahore	03718484102	
2.	M/s Paktech Instruments Company, Karachi	0331-3586876	
3.	M/s Jatoi & Company JV Rastek Technologies, Karachi	0300-2372981	
4.	M/s Texitech, Karachi.	0321-9224339	
5.	M/s Nordtec International, Karachi	0333-2868132	

**Nadeem Soomro,**  
Deputy Director (Procurement)  
MUET, Jamshoro, Member / Secretary,

**Engr. Mukesh Kumar,**  
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SABS University of Arts, Design & Heritages,  
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Director (Works & Strategic Planning),  
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