Tender 110.	
KDU/PRO/CAP/157/2022	
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General Sir John Kotelawala Defence University, KandawalaEstate, Ratmalana, Sri Lanka.

T: Phone: 2632028, 2622995 Fax: 2622504, 2623599 Web:www.kdu.lk

10/05/2022

INVITATION TO BID AND GENERAL CONDITIONS OF TENDER

- 1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee Invites Bid/s from prospective Bidders for supply of <u>item/s listed in the schedule in Annex "A"</u>. <u>The relevant specifications of the item/s are indicated in Annex "B"</u>.
- 2. **CLOSING DATE & TIME.** The tender will close at 1000 hrs. on 02 /06 /2022. Any Bid submitted afterthe closing time of the tender will be rejected & unopened such bids will be returned to the bidder.
- 3. **VALIDITY OF BID.** The bid submitted under this tender **must be valid for a minimum period of 77** days from thedate of closing of tender.

4. <u>BID BOND / GUARANTEE</u>.

Tandar No.

- (b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a "<u>major deviation</u>" and such offer will not be considered for further procurement action and will be rejected.
- 5. **VALUE ADDED TAX.** The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex "A" and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) **issued for the current financial year** from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.
- 6. **BID SUBMISSION.** The bidder must duly sign at the last page (before Annexes) of this document indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. The Bid/s that do not include authorized signature will be rejected. The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the appropriate tender box placed at General Sir John Kotelawala Defence University. Kandawala Estate. Ratmalana (at the Main Entrance of General Sir John Kotelawala Defence University) on or before the time & date specified for the closing of tender. The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop.

Tender Ref No :	The Chairman,
Closing Date & Time:	Department Procurement Committee,
	General Sir John Kotelawala Defence University
	Kandawala Estate, Ratmalana,
	Sri Lanka

- 7. The Bid/s must be submitted in the attached schedule of prices in Annex "A" as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in three copies along with duly signed copy of a General Conditions of tender. The Bid/s must contain Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.
- Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

 8. SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES.

 When it is required to submit samples, every offer must be accompanied with pre marked samples. The marking of samples

indicating the Bidder & Offer number must be done and the samples must be handed over to the officer at same place where tender box is placed on or before the closing date & time of the Bid. Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately for all offers indicated in their bid/s.

- (1) Samples. Please submit.....samples.
- (2) <u>Testing Charges</u>. A sum of Rs<u>per offer</u> must be paid to the Bursar of KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.
- 8. <u>BID OPENING</u>. All duly received bids <u>will be opened immediately after the scheduled closing time of Bids at the same venue</u>. Bidders or their accredited agents could be present at the time of opening of bids.

9. PRICES.

For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to General Sir John Kotelawala Defence University Ratmalana, Faculty of Allied Health Science (FAHS) Werahera and University Hospital Werahera or Southern Campus Sooriyawewa. <u>Unit price, VAT and Total price should be clearly indicated in schedule in Annex "A"</u>. Other than VAT, all other type of taxes (eg: NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

- 10. **RESTRICTED TENDERS**. Invitation to Bids are circulated a mong the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.
- 11. PERFORMANCE BOND/GUARANTEE. A successful bidder shall f u r n i s h a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of Sri Lanka to issue such Performance Guarantee for this purpose, within two weeks from the date of notification of award. The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items on time or fails to complete the works as per the agreed contract, THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.
- 12. **SIGNING OF CONTRACT.** The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 500,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.
- 13. **DELIVERY.** Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 120 days of signing of contract**, unless mutually agreed for extended delivery period with General Sir John Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "D"**. In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized**. Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.
- 14. **LIQUIDATED DAMAGES.** In case of delivery period extensions requested by the successful bidder, a sum equivalent to 1% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 12% of the total value of delayed supplies.
- 15. PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS. Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by General Sir John Kotelawala Defence University authorities. The delivery made to the General Sir John Kotelawala Defence University should not be considered as quantities taken over by General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from General Sir John Kotelawala Defence University stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 60-90 days' period of credit from the date of acceptance of items for Account Office, General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.
- 16. **RIGHTS OF THE PROCUREMENT COMMITTEE**. The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You, Yours faithfully,

SA Kumaranayaka For Vice Chancellor

General Sir John Kotelawala Defence University

I/We agree to abide by the conditions of tender and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

Signature	
Name of the Company/Bidder	
Date :	Company seal

DATE

SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS

E MAIL ADRESS

(E) Bid Reference: KDU/PRO/CAP/ 157/2022

S/N	ITEMS		DENO	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
	PURCHASE OF LAB EQUIPMENTS SOFTWARE FOR FOT	<u>S</u>				
	BIOPACK Student lab		No's	1		
02	NI ELVIS III hardware and software but	ndle	No's	2		
03	Computer based training and experiment	ation system	No's	2		
	Specification Attached					
	TOTAL					
	DISCOUNT					
	TOTAL(AFTER DISCOUNT)					
	VAT %					
	GRAND TOTAL					
	(i) DELIVERY PERIOD (ii) MAKE & MODEL (iii) VALIDITY PERIOD (iv) WARRANTY PERIOD (v) PAYMENT TERMS (vi) COUNTRY OF ORIGIN (vii) DISCOUNT IF ANY (viii) ANY OTHER TAXES	- - - - -	CREDIT			
, ,	VAT DETAILS PLACE OF DELIVERY	CERTIF DEPART - SIR JO KANDA	ICATE / Y IMENT OI ITEMS TO DHN KOY WALA ST	VAT FINLA FINLA BE I FELAV ATE, I	EXEMPTION AND REVEN DELIVEREI WALA DE	NENT REGISTRATION N LETTER ISSUED BY IUE TO BE ATTACHED D TO THE "GENERAL FENCE UNIVERSITY, NA ALONG WITH THE INVOICE.
	Any queries / information with rega Commanding Logistics Services office NOTE: UNIT PRICE AND TOTAL NOT QUOTATION WILL BE REJEC	at General S PRICE ARE	ir John Ko	telawa	la during wo	rking hours.
	SUPPLIER NAME	• • • • • • • • • • • • • • • • • • • •	•••••		••	
	ADDRESS					
	CONTACT NUMBER					Company Seal

Technical Specifications

BIOPAC Student lab

Item Code: KDU – BIOPAC Student lab

Description- Science lab system providing teaching solution regarding physiological data

Quantity - 1

1	2		3	4		5	6
	KDU	Requirements					Bidder's
							Offer ¹
			Priorit	Confo	rmity	Proof	Remarks ³
			\mathbf{y}^2	Yes	No	4	Kemarks
1.	Comp	ponents					
	The u	unit shall consist of					
	i.	BSL Human Physiology					
	ii.	BSL Pulse Plethysmogram Xdcr					
	iii.	BSL Respiratory Effort Xdcr					
	iv.	BSL Fast Response Temp Xdcr					
	v.	EDA w/Electrode Pinch Leads					
	vi.	EDA Disp. Electrode (100)					
	vii.	Isotonic Electrode Gel for EDA					
	viii.	Push Button Hand Switch, BSL	\vdash				
	ix.	Headphones to MP36/36R output					
	X.	Visual Stim Controllable LED					
	xi.	BSL Multi-lead ECG Cable					
	xii.	Human-Safe Stimulator - DB9 BSL/SS					
		Transducer Connect					
	xiii.	SS12LA					
	xiv.	BSL Variable Force Transducer					
	XV.	Single-sided Adhesive Tape					
	xvi.	Electrode Gel, 227 g tube					
	xvii.	Force Transducer Tens Adjuster					
	kviii.	Finger Twitch XDCR, BSL					
	xix.	Single Channel Ear Tubephone					
	XX.	BSL Stimulator Module					
	xxi.	BNC - 3.5mm mono phone jack					
	xxii.	BSL Twin Axis Goniometer 150mm Double-					
		sided Adhesive Tape					
	xxiii.	AC400-1					
	xxiv.	Power Supply, 12V, 5A					
	XXV.	ACCORD-UK					
	xxvi.	AC Power Cord (UK) (220v, 50Hz)					
	xvii.	Gassys3 Main Controller Module			1		
	kviii.	Custom Foam Insert for GASSYS3		C			
	xxix.	3 Liter Cal. Syringe			İ		
	XXX.	22mmOD/35mmID-Flexible AFT7 to					
	xxxi.	Smooth Bore Tubing, 3m/35mmID					
	xxii.	T Valve 35mm OD					
	xxiii.	35mmOD/35mmID-Flexible AFT27 t					
	xxiv.	Disp Filt Mouthpiece 35mm 10pk					
	XXV.	Disp. Noseclip, 10pk					
	xxvi.	SS31LA					
	xvii.	Noniny Cardiac Output Sensor					
	kviii.	Disp. paired elect. (150/pk) BSL/36R					
		Strobe110/220 50/60Hz					
	xxix.	BSL Reflex Hammer Transducer					

	xl.	SuperLab System for MP36/MP35					
		-					
3.	Warr	anty, Services Agreements and					
		mentation					
	i.	All sub items described in this schedule					
	1.	should be covered by a warranty for a period	C				
		of not less than 24 calendar months from the					
		date of successful commissioning of the					
		equipment including for any defect in					
		manufacturing process, workmanship and all					
		accessories.					
	ii.	A Labour-only service contract for a 03 year	C				
		period and Comprehensive Maintenance					
		Contract (CMC) amount for the whole					
		equipment including installation material for					
		another 5 years should be quoted as per schedule given below after 02 year warranty					
		period.					
		-					
		a. 1 st & 2 nd year: Warranty period					
		b. 3 rd to 5 th year: Labour only contract					
		c. 6 th to 10 th Year: Comprehensive					
		maintenance contract	C				
	iii.	The technology manuals having full details of					
		installation, operations, service and					
		maintenance in the English language must be					
		made available in duplicate at the time of	C				
		installation and commissioning.					
	iv.	Spares / replaceable items/ consumables					
		required for the system must be guaranteed	~				
		for supply over a period of 10 years from the	С				
		date of installation. The price list for such					
		items over a period of 10 years from the date of installation should be made available.	С				
	***	If the equipment supplied needs any special	C				
	V.	type of power supply (eg: UPS) cost of such					
		items to be indicated separately but include in	С				
		the total cost.					
	vi.	A sample unit must be available for					
		demonstration and performance evaluation at					
		the request of TEC.	С				
	vii.	The successful bidder shall also install and	-				
		commission the equipment at Faculty of					
		Technology KDU.					
	viii.	Training should be provided to end users in					
	l	- ·		I	1	<u> </u>	1

	respect of operation, handling maintenance of equipment supplied.	and			

Make & Model:	•••
Country of Manufacture:	•••

Technical Specifications

NI ELVIS III Hardware and software bundle

Item Code: KDU – NI ELVIS III Hardware and software bundle

 $\textbf{Description-}\ 785577-01\ \ , 786520-01\ \ , NI\ ELVIS\ III\ Hardware\ and\ software\ bundle\ includes\ Hardware\ +software\ (\ LabVIEW\ FDS\ +\ RT+\ FPGA\ +\ Vision\ +\ CD\&Sim+\ Multisim\ +\ with\ LAPTOP$

Quantity - 2

1	2	3	4		5	6
	KDU Requirements					Bidder's Offer ¹
		Priorit y ²	Confo	ormity No	Proof ⁴	Remarks ³
	General Specifications	y	165	110		
	Analog Input(s) More than 8 channels at 8-bit resolution or higher Function generator Functions: Sine, square, and triangular waveforms. Maximum Frequency More than or equal to 1 MHz Arbitrary waveform generator 8-bit or higher DAC resolution Digital multi meter Measurements DC voltage, AC voltage, DC current, AC current, and Resistance Capacitance and Inductance measurement (preferred) Power Source 230 V at 50 Hz	С				
	The unit shall consist of:					
	Digital multimeter Measurements: DC voltage, AC voltage, DC current, AC current, and Resistance Capacitance and Inductance measurement (preferred) Bode analyzer 1 Hz to 1 MHz or higher IoT Support Connectivity over Ethernet and WiFi Connectivity Variable power supply 0 to 12 V Communication interface USB Components Workstation Hardware 1X/10X Switchable Passive Oscilloscope Probes. BNC cables, cables and accessories kit Detachable Prototyping Board Compatible Power cord Breadboard Integrated and swappable Electronic Components kit Op-amps: Regulators: 1.5A boost/buck/inverting switching regulator: MC34063AP, Voltage regulator: LM317 (TO-220)	C				

NAND: quad 2 input (SN74LS00N), OR: quad 2 input (SN74LS32N), XOR: quad 2 input (SN74LS86N), NOR: quad 2 input (SN74LS02N), AND: quad 2 input (SN74LS08N), Inverter buffer/driver: SN74LS04N Hex, Counter, 4-bit: SN74LS163N, Dual JK flip-flop: SN74LS107AN, D type dual flip-flop: SN74LS74N, Decoder/encoder/mux: CD4511BE, 3 to 8 decoder/demux: SN74LS138N, 8 to 3 encoder: SN74LS148, Dual complementary pair/inverter: CD4007UB, Timer: TLC555CP Op-amp: TL072CP, Op-amp: TL074CN, Op-amp: LF356, Op-amp: LM741C, Instrumentation Amp: INA217, Comparator: LM311P Converters: Freq to V converter: LM2917N/NOPB, A/D converter, 12-bit: ADS7816P, A/D converter: ADS7822P, D/A converter, 12-bit: TLV5616CP Diodes: Zener diode: 1N4735, Small signal diode: 1N3064, Fast switching diode: 1N914B, 1A Shottky diode: 1N5819, 1A rectifier diode: 1N4001, Infrared receiver diode, Infrared emitter diode Resistors: $^{1}/_{4}$ W, 2.2 Ω , $\pm 5\%$, $^{1}/_{4}$ W, 10 Ω , $\pm 5\%$, $^{1}/_{4}$ W, 47 Ω , $\pm 5\%$, $^{1}/_{4}$ W, 68 Ω , $\pm 5\%$, $^{1}/_{4}$ W, 100 Ω , $\pm 5\%$, $^{1}/_{4}$ W, 150 Ω , $\pm 5\%$, $\frac{1}{4}$ W, 200 Ω , $\pm 5\%$, $\frac{1}{4}$ W, 220 Ω , $\pm 5\%$, $\frac{1}{4}$ W, 330 $\Omega, \pm 5\%, \frac{1}{4}$ W, 470 $\Omega, \pm 5\%, \frac{1}{4}$ W, 680 $\Omega, \pm 5\%, \frac{1}{4}$ W, $1 \text{ k}\Omega, \pm 5\%, \frac{1}{4} \text{ W}, 1.5 \text{ k}\Omega, \pm 5\%, \frac{1}{4} \text{ W}, 2.2 \text{ k}\Omega, \pm 5\%, \frac{1}{4}$ W. 3.3 k Ω , ±5%, ½ W. 4.7 k Ω , ±5%, ½ W. 5.6 k Ω . $\pm 5\%$, $\frac{1}{4}$ W, $10 \text{ k}\Omega$, $\pm 5\%$, $\frac{1}{4}$ W, $15 \text{ k}\Omega$, $\pm 5\%$, $\frac{1}{4}$ W, 20 $k\Omega$, $\pm 5\%$, $\frac{1}{4}$ W, 22 $k\Omega$, $\pm 5\%$, $\frac{1}{4}$ W, 33 $k\Omega$, $\pm 5\%$, $\frac{1}{4}$ W, $47 \text{ k}\Omega, \pm 5\%, \frac{1}{4} \text{ W}, 68 \text{ k}\Omega, \pm 5\%, \frac{1}{4} \text{ W}, 100 \text{ k}\Omega, \pm 5\%,$ $^{1}/_{4}$ W, 200 k Ω , $\pm 5\%$, $^{1}/_{4}$ W, 470 k Ω , $\pm 5\%$, $^{1}/_{4}$ W, 1 M Ω , $\pm 5\%$, ½ W, 10 M Ω , $\pm 5\%$ Power Resistors: 10W, 6.8 Ω , $\pm 5\%$ Potentiometers: $^{3}/_{4}$ W, 1 k Ω , $\pm 10\%$: 3006P-102, $^{3}/_{4}$ W, 10 k Ω , $\pm 10\%$: 3006P-103, $\frac{3}{4}$ W, $100 \text{ k}\Omega$, $\pm 10\%$: 3006P-104C **Ceramic Capacitors** 39 pF (x2), 100 pF (x2), 1 nF (x2), 2.2 nF (x2), 4.7 nF (x2)10 nF (x4), 47 nF (x2), 100 nF (x2)Electrolytic Capacitors: 1 uF, 50V (x2), 4.7uF, 50V (x2), 10 uF, 50V (x2), 22 uF, 25V (x2), 47 uF, 25V (x2), 220 uF, 25V, \pm 20% (x1), 470 uF, 25V, $\pm 20\%$ (x2)Transistors: P-channel MOSFET (x4): ZVP2110A, NPN transistor

(x3): 2N3904L, PNP transistor (x3): 2N3906L, NPN

	bipolar power transistor: TIP31C, PNP bipolar power transistor: TIP32C, N-channel power MOSFET: IRF510, Compl. transistor pair: STD815CP40 or STD830CP40, Dual NPN high voltage transistors: STD845DN40 or STD840DN40 LEDs: Misc: Audio transformer Photocell buzzer Light sensor Wiring kit			
3.	Programing Language Support LabVIEW Python C	С		
4.	Software Must support virtual instrumentation PC Connectivity: Required for data acquisition using Windows-based PCs with standard ports Supplementary Resources: Software Disks / Instructor Manuals / User Guides /Connectors and Cables.	С		
5.	Warranty, Services Agreements and Documentation			
	i. All components and modules described in this schedule should be covered by a warranty for a period of not less than 24 calendar months from the date of successful commissioning of the equipment including for any defect in manufacturing process, workmanship and all accessories.	С		
	ii. A Labour-only service contract for a 03 year period and Comprehensive Maintenance Contract (CMC) amount for the whole equipment including installation material for another 5 years should be quoted as per schedule given below after 02 year warranty period. a. 1st & 2nd year: Warranty period	C		
	 b. 3rd to 5th year: Labour only contract c. 6th to 10th Year: Comprehensive maintenance contract 	С		
	iii. The technology manuals having full details of installation, operations, service and maintenance in the English language must be made available in duplicate at the time of installation and commissioning.	С		
	iv. Spares / replaceable items required for the system must be guaranteed for supply over a period of 10 years from the date of installation.	С		
	The price list for such items over a period of 10 years from the date of installation should be	С		

	made available.	С			
v.	A sample unit must be available for				
	demonstration and performance evaluation at				
	the request of TEC.	C			
vi.	Prospective suppliers must provide	C			
	documentary evidence of their previous				
	experience with similar units installed in Sri				
	Lanka as well as evidence of the reliability of				
	after-sales services provided.				
vii.	The successful bidder shall also install and				
	commission the equipment at Faculty of				
	Technology KDU.				
viii.	Training should be provided to end users in				
	respect of operation, handling and maintenance				
	of equipment supplied.				

Make & Model:	
Country of Manufacture:	

Technical Specifications

Computer-based training and experimentation system

Item Code: KDU – Computer-based training and experimentation system

Description- Should be the central unit of the system. It incorporates all inputs and outputs, switches, power and signal sources and measurement circuitry needed to perform experiments. The Interface is controlled via the connected PC.

Quantity - 2

1	2	3	4		5	6
	KDU Requirements				Bidder's Offer ¹	
		Priority ²	Conformity		Proof	Remarks ³
			Yes	No	4	Kelliarks
1.	Equipment					
	Equipment shall consist of:					
	 i. 32-bit processor with storage memory for measurements ii. USB interfaces, transfer rate 12 Mbits/s iii. WLAN/WiFi interface, 2.4 GHz, IEEE 802.11 b/g/n iv. High-quality designer casing with aluminium feet and surface-hardened Plexiglas front panel v. Suitable for accommodating in training panel frames for DIN A4 training panels vi. Multi-coloured LEDs for displaying status vii. Adjustable analog output, +/-10 V, 0.2 A, DC – 5 MHz, via BNC and 2-mm sockets viii. 16-bit digital signal output, of which 8 bits are accessed via 2-mm sockets, TTL/CMOS, clock frequency 0 – 100 kHz, electric strength +/- 15 V ix. 8 Relays, 24 V DC/1 A, of which 4 are accessed via 2-mm sockets x. External power supply with wide range input 100-264 V, 47-63 Hz, output 24 V / 5 A 	C				
2.	Virtual instruments (meters and sources):					
	 2 x Voltmeter VIs, 2 x Ammeter VIs: AC, DC, 9 ranges, 100 mV to 50 V, true RMS, AV 1 x Power meter, 9 ranges, 100 mV to 50 V 1 x 2-channel ammeter VI: AC, DC, 2 ranges, 300 mA and 3 A, 1 x 2-channel voltmeter VI: AC, DC, 9 ranges, 100 mV to 50 V, 1 2-/4-channel oscilloscope: band width 10 MHz, 25 time ranges, 100 ns/div to 10 s/div, 9 ranges 20 mV/div to 10 V/div, trigger and pre-trigger, XY and XT modes, cursor function, addition and multiplication function for 2 channels 	- C				

	 1 x VI Spectrum Analyzer: 9 voltage ranges 100 mV to 50 V, input frequency range 3 Hz to 1 MHz, time domain display 1 x Adjustable DC voltage VI 0 - 10 V 1 x Function generator VI: 0.5 Hz - 5 MHz, 0 - 10 V, sine, square, triangular, 1 x Arbitrary generator VI, 1 x Pulse generator VI 1 x VI with 16 digital outputs, 1 x VI with 16 x digital inputs, 1 x VI with 16 digital input/outputs. Display modes: binary, hex, decimal and octal numerals 		
3.	Accessories shunts and connection cables	С	
4.	Warranty, Services Agreements and Documentation		
	 i. All components and modules described in this schedule should be covered by a warranty for a period of not less than 3 years from the date of successful commissioning of the equipment including for any defect in manufacturing process, workmanship and all accessories. ii. A Labour-only service contract for a 03 year period and Comprehensive Maintenance Contract (CMC) amount for the whole equipment including installation material for another 5 years should be quoted as per schedule given below 	C O	
	after 02 year warranty period. a. 1 st & 2 nd year : Warranty period		
	b. 3 rd to 5 th year: Labour only contract		
	c. 6 th to 10 th Year: Comprehensive maintenance contract		
	iii. The successful bidder shall also commission the equipment at Faculty of Technology KDU.iv. Training should be provided to end users in	C O	
	respect of operation, handling and maintenance of equipment supplied.		

Make & Model:						
Country of Manufacture:						
Relevant catalogues & technical information attached.						
Information given under "Bidder's Offer" is true and correct.						
Bidder's Name, signature & Date	Company seal					

¹ Bidder shall fill in Col. 4, 5 & 6

² Purchaser will mark C for critical requirements and O for optional requirements.

³ If the bidder has marked No for Conformity, bidder shall provide information in this column of his offer against the clause concerned in col. 2 (Purchaser's requirements). If the bidder has marked Yes, Bidder has the option of providing additional information to establish that it conforms to the specification given

⁴ Bidder shall include proof to support the conformity of the specification e.g. document and the page number in the original user/service manual mentioning the specification.

SPECIMEN FORM OF BID SECURITY

insurance company) whose registered office is at	(hereinafter called the Authority") in the sum of for the payment of which sum the Bidder and the Surety ally by those presents. er persons to compete tenders in similar terms for the supply			
submit the same for the consideration of the Authority, and the called "the Bid") in accordance with such invitation, the Bon honour certain obligations to be undertaken by him in the Tend Now the Conditions of this Bond are:	e Bidder proposes to submit to the Authority a Bid (hereafter ad shall provide security to the Authority that the Bidder will			
(a) That it shall remain in full force and effect up	That it shall remain in full force and effect until the earliest of (i) (Date), being () days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.			
submission of tenders, or any prolongation of				
	Tender by the Authority, the date upon which the Bidder thority in accordance with the terms of the contract thereby			
(b) Subject to this Bond being in full force and Bond upon receipt of first written demand form the A	effect, the Surety shall pay the full amount specified in this authority stating that.			
(i) The Bidder has withdrawn his Tend	(i) The Bidder has withdrawn his Tender during the validity of this Bond, or			
(ii) The Bidder has failed to provide a terms of the tender within 14 days from receip	performance security to the Authority in accordance with the of intimation of award of the Tender.			
No alteration in the terms of the Tender, nor any for or thing concerning the Tender on the part of the Authority, n Surety from any liability under this Bond.	bearance of forgiveness in or in respect of neither any matter for any objection from the bidder shall in any way release the			
The benefit of this Bond shall not be assignable by the Authority shall return the same to the Bidder. This Bond shall be governed by the laws of Sri Lanka	ne Authority and upon its ceasing to be in full force and effect			
I executed as a deed on this () day of (For a	and on behalf of the Bidder			
Signed by	Signed by			
In the capacity of	In the capacity of			
and by	and by			
In the capacity of	In the capacity of			
Seal (where applicable)	Seal (where applicable)			

For and on behalf of the Surety

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DELIVERY SCHEDULE

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER) TENDER NO: QTY :..... **DURATION** QTY EX STOCK QTY (WITHIN 01 WEEK) 01MONTH 02 MONTHS 03 MONTHS 04 MONTHS **TOTAL** NAME OF THE BIDDER : SIGNATURE OF BIDDER **DATE** :.....

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COMPANY SEAL