

Tender No:

KDU/PRO/CAP/SFF/ 115 /2020



General Sir John Kotelawala Defence University,  
Kandawala Estate, Ratmalana,  
Sri Lanka.  
T: Phone: 2632028 , 2622995  
Fax : 2622504, 2623599  
Web: www.kdu.lk

29 / 05 / 2020

## **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 **item/s listed in the schedule in Annex "A". The relevant specifications of the item/s are indicated in Annex "B".**

2. **CLOSING DATE & TIME.** The tender will close at 1000 hrs. on 25/06/2020. Any Bid submitted after the 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 period of 120 days from the date of closing of tender.**

4. **BID BOND / GUARANTEE.**

(a) If the quoted bid value exceeds Rs: 2,000,000.00, such Bids should be accompanied with 1% of Bid Value an "on demand" and "unconditional" Bid Bond/Guarantee for a sum of **Rs: .....** in the format given in Annex "C" through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, ie, for 150 days from the date of Bid opening. **Cheques will not be accepted as Bid Guarantee.**

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a "**major deviation**" 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** : .....

**Closing Date & Time** : .....

The Chairman,  
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.

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) **Testing Charges.** A sum of Rs. .... **per offer** 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. **BID OPENING.** All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue.** 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. **Unit price, VAT and Total price should be clearly indicated in schedule in Annex “A”.** 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 among 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 furnish 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. 500,000.00 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,

J D B Galagoda  
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 Signatory

.....Name of the Company/Bidder

Date :- .....

Company seal

**SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS**

S/N	ITEMS	DENO	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
	<b><u>PURCHASE OF LAB EQUIPMENT FOR ELECTRICAL AND ELECTRONIC ENGINEERING DEPARTMENT(03)</u></b>				
01	Duel Channel Oscilloscope with inbuilt signal sources	Nos	10		
02	Arbitrary Waveform Generator	Nos	06		
03	Laboratory grade Digital Multimeters	Nos	06		
04	DC Power Source	Nos	08		
05	Spectrum Analyzer	Nos	02		
	<i>As per attached specification</i>				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	<b>GRAND TOTAL</b>				

**(A) OTHER DETAILS**

- (i) DELIVERY PERIOD - .....
- (ii) MAKE & MODEL - .....
- (iii) VALIDITY PERIOD - .....
- (iv) WARRANTY PERIOD - .....
- (v) PAYMENT TERMS - CREDIT
- (vi) COUNTRY OF ORIGIN - .....
- (vii) DISCOUNT IF ANY - .....
- (viii) ANY OTHER TAXES - .....

**(B) VAT DETAILS**

- VALUE ADDED TAX PERMANENT REGISTRATION CERTIFICATE / VAT EXEMPTION LETTER ISSUED BY DEPARTMENT OF INLAND REVENUE TO BE ATTACHED

**(C) PLACE OF DELIVERY**

- ITEMS TO BE DELIVERED TO THE "GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY, KANDAWALA STATE, RATMALANA ALONG WITH THE COPY OF ORDER AND RELEVANT INVOICE.

- (D) Any queries / information with regard to this procurement / tender could be obtained from Officer Commanding Logistics Services office at General Sir John Kotelawala Defence University through e-mail [ocls@kdu.ac.lk](mailto:ocls@kdu.ac.lk) and by telephone number 0112622504 during working hours.**

**NOTE: UNIT PRICE AND TOTAL PRICE ARE TO BE INDICATED CLEARLY IN THE TENDER, IF NOT QUOTATION WILL BE REJECTED.**

SUPPLIER NAME - .....

ADDRESS - .....

Company Seal

**(E) Bid Reference: KDU/PRO/CAP/SFF/ 115/2020**

.....  
DATE

TECHNICAL SPECIFICATIONS FOR DUAL CHANNEL OSCILLOSCOPE WITH  
02XSIGNAL SOURCES - 10 NOS

**General**

**Sample**

Sample Mode Real-time Sample

Real-time Sample Rate (dual-  
channel) Analog channel: 2 GSa/s (single-channel), 1 Gsa/s  
channel)  
Digital channel: 1 GSa/s (8-channel), 500 MSa/s (16-  
channel)  
Peak Detect Analog channel: 500 ps (single-channel), 1  
ns (dual-channel)  
Digital channel: 1 ns (8-channel), 2 ns (16-channel)  
Averaging After all the channels finish N samples at the  
same time, N can be 2, 4, 8, 16, 32, 64, 128, 256, 512,  
1024, 2048, 4096 or 8192.

High Resolution 12 bits of resolution when  $\geq 5 \mu\text{s}/\text{div}$  @ 1 GSa/s (or  $\geq 10$   
 $\mu\text{s}/\text{div}$  @ 500 MSa/s).

Minimum Detectable Pulse Width Digital channel: 5 ns

Memory Depth Analog channel:  
Single-channel: Auto, 14 kpts, 140 kpts, 1.4 Mpts, 14  
Mpts and 56 Mpts (optional) are available  
Dual-channel: Auto, 7 kpts, 70 kpts, 700 kpts, 7 Mpts  
and 28 Mpts (optional) are available  
Digital channel:  
14 Mpts (8-channel), 7 Mpts (16-channel) standard; 28  
Mpts (8-channel), 14 Mpts (16-channel) optional

**Input**


Number of Channels 2 analog channels+16 digital channels

Input Coupling DC, AC or GND

Input Impedance Analog channel:  $(1 \text{ M}\Omega \pm 1\%) \parallel (16 \text{ pF} \pm 3 \text{ pF})$  or  $50$   
 $\Omega \pm 1.5\%$

Digital channel:  $(101 \text{ k}\Omega \pm 1\%) \parallel (9 \text{ pF} \pm 1 \text{ pF})$

Probe Attenuation Coefficient	Analog channel: 0.01X to 1000X, in 1-2-5 step
Maximum Input Voltage (1 M $\Omega$ )	Analog channel: CAT I 300 Vrms, CAT II 100 Vrms, transient overvoltage 1000 Vpk Digital channel: CAT I 40 Vrms, transient overvoltage 800 Vpk
<b>Horizontal</b>	Specify
<b>Vertical</b>	Specify
<b>Trigger</b>	
Trigger Level Range	Internal: $\pm 5$ div from center of the screen, EXT: $\pm 4$ V
Trigger Mode	Auto, Normal, Single
Holdoff Range	100 ns to 10 s
High Frequency Rejection	75 kHz
Trigger	Edge Trigger, Pulse Trigger, Runt Trigger, Pattern Trigger, I2C Trigger, SPI Trigger, Slope Trigger
<b>Measure</b>	
Cursor	Manual/Track/Auto mode
Auto Measurement	Specify
<b>Math Operation</b>	
Waveform Operation	A+B, A-B, A $\times$ B, A $\div$ B, FFT, Digital Filter, Editable Advanced Operation, Logic Operation
FFT Window	Rectangle, Hanning, Blackman, Hamming
FFT Display	Split, Full Screen
FFT Vertical Scale	Vrms, dB
Logic Operation	AND, OR, NOT, XOR
Math Function	Intg, Diff, Lg, Exp, Sqrt, Sine, Cosine, Tangent
<b>Display</b>	
Display Type	8.0 inches (203 mm) TFT LCD display
Display Resolution	800 horizontal $\times$ RGB $\times$ 480 Vertical Pixel





**Signal Source**

Channels	2
Sample Rate	200 MSa/s
Vertical Resolution	14 bits
Max. Frequency	25 MHz
Standard Waveform	Sine, Square, Pulse, Ramp, Noise, DC
Built-in Waveform	Sine, Exponential Rise, Exponential Fall, ECG, Gauss, Lorentz, Haversine
Modulation	AM, FM

**I/O**

Standard Ports	USB Host (support USB-GPIB), USB Device, LAN, Aux Output (TrigOut/PassFail)
----------------	---

<b>Electromagnetic Compatibility and Safety</b>	Specify
---	---------

**Standard Accessories**

Power Cord conforming to the standard of the destination country	Yes
USB Data Cable	Yes
2 Passive Probes (350 MHz)	Yes
Current Probe	Yes(RP1001C)
Quick Guide (Hard Copy)	Yes

<b>Warranty</b>	<b>three years</b>
-----------------	--------------------

4  
A0

TECHNICAL SPECIFICATIONS ARBITRARY WAVEFORM GENERATORS- 06 NOS

**General**

Channels 02 Nos  
Maximum Frequency 30MHz  
Sample Rate 200MSa/s

**Waveforms**

Basic waveforms Sine, Square, Ramp, Pulse, Noise  
Built-in Arbitrary Waveforms 160 kinds, including Sinc, Exponential Rise, Exponential Fall, ECG, Gauss, HaverSine, Lorentz, Dual-Tone, etc.

**Signal Characteristics**

Square Specify  
Ramp Specify  
Pulse Specify  
Arb Specify  
Harmonic Specify

**Output Characteristics**

Amplitude (into 50  $\Omega$ ) Specify

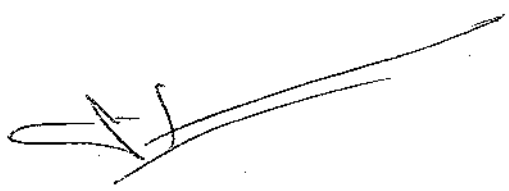
**Modulation Characteristics**

AM Specify  
FM Specify  
PM Specify  
ASK Specify  
FSK Specify  
PSK Specify  
PWM Specify  
[Mod/Trig/FSK/Sync] Input Specify  
**Burst Characteristics** Specify

<b>Sweep Characteristics</b>	Specify
<b>Voltage Range and Sensitivity</b>	Specify
<b>Pulse Width and Duty Cycle Measurement</b>	Specify
<b>Input Characteristics</b>	Specify
<b>Trigger Characteristics</b>	Specify
<b>Clock Reference</b>	Specify
<b>Sync Output</b>	Specify

**General Specifications**

<b>Power</b>	Specify
<b>Display</b>	Specify
<b>Warranty</b>	three years
<b>Standard Accessories</b>	Yes





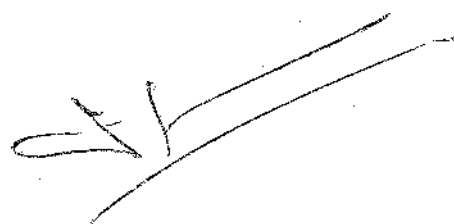
**TECHNICAL SPECIFICATIONS FOR LABORATORY GRADE DIGITAL  
MULTIMETERS - 06 NOS**

**General Specifications**

Display	256× 64 LCD, dual display, graphical menu, English, online help.
Power Supply	AC 100V - 120V, 45Hz - 440Hz AC 200V - 240V, 45Hz - 66Hz Detect the power-line frequency automatically at power-on, 400Hz defaults to 50Hz
Power Consumption	Specify
Working Environment	Full accuracy for 0°C to 50°C Full accuracy to 40°C, 80% R.H., Non-coagulation
Safety	IEC 61010-1; EN 61010-1; UL 61010-1; CAN/CSA-C22.2 No. 61010-1 Measurement CAT I 1000V/CAT II 300V Pollution Degree 2
EMC	EN 61326-1
Remote Interface	GPIB, 10/100Mbit LAN, USB 2.0 Full Speed Device & Host (support USB flash device), RS-232C
LXI Compatibility	LXI Class C, Version 1.2

**DC Characteristics**

DC Voltage	200.0000mV 2.000000V 20.00000V 200.0000V 1000.000V
DC Current	200.0000uA 2.000000mA 20.00000mA 200.0000mA 2.000000A 10.00000A



37

Resistance	200.0000Ω
	2.000000kΩ
	20.00000kΩ
	200.0000kΩ
	1.000000MΩ
	10.00000MΩ
	100.0000MΩ
Diode Test	2.0000V
Continuity Test	2000.0Ω

**Measuring Characteristics****DC Voltage**

Input Resistance	200mV, 2V, 20V ranges: Selectable 10MΩ or >10GΩ
	200V and 1000V ranges: 10MΩ±1%
Input Protection	1000V
Input Offset Current	50pA, at 25°C, typical
CMRR	140dB for 1 kΩ unbalance in LO lead, ± 500VDC peak maximum

**Resistance**

Measurement Method	Selectable 4-wire or 2-wire resistance
	Current source referenced to LO input
Open-circuit Voltage	Specify
Max. Lead Resistance	Specify

**DC Current**

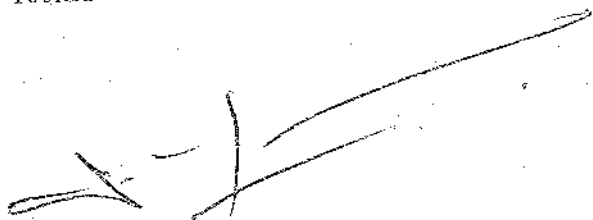
Shunt Resistor	100Ω for 200uA, 2mA
	1Ω for 20mA, 200mA
	0.01Ω for 2A, 10A
Input Protection	Externally accessible 500mA, 250V fast blow fuse at the rear panel for 200uA, 2mA, 20mA and 200mA ranges. Internal 10A, 250 V slow blow fuse for 2A and 10A ranges.

**Continuity/Diode Test**

Response Time 300 samples/sec, with audible tone  
Continuity Threshold Adjustable from 1  $\Omega$  to 2000  $\Omega$

**AC Characteristics**

True RMS AC Voltage	200.0000mV	3Hz- 5Hz
		5Hz-10Hz
		10Hz-20kHz
		20kHz-50kHz
		50kHz-100kHz
		100kHz- 300kHz
	2.000000V	3Hz- 5Hz
		5Hz-10Hz
		10Hz-20kHz
		20kHz-50kHz
		50kHz-100kHz
		100kHz- 300kHz
	20.00000V	3Hz- 5Hz
		5Hz-10Hz
		10Hz-20kHz
		20kHz-50kHz
		50kHz-100kHz
		100kHz- 300kHz
	200.0000V	3Hz- 5Hz
		5Hz-10Hz
		10Hz-20kHz
		20kHz-50kHz
		50kHz-100kHz
		100kHz- 300kHz



	750.000V	3Hz- 5Hz
		5Hz-10Hz
		10Hz-20kHz
		20kHz-50kHz
		50kHz-100kHz
		100kHz- 300kHz
True RMS AC Current	200.0000uA	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz
		5kHz-10kHz
	2.000000mA	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz
		5kHz-10kHz
	20.00000mA	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz
		5kHz-10kHz
	200.0000mA	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz
		5kHz-10kHz
	2.000000A	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz
		5kHz-10kHz
	10.00000A	3Hz- 5Hz
		5Hz-10Hz
		10Hz-5kHz

(3A)

**Measuring Characteristics****True RMS AC Voltage**

Measurement Method	AC-coupled True-RMS measurement with up to 400V DC of bias at on any range
Crest Factor	$\leq 5$ at full range
Input Impedance	$1M\Omega \pm 2\%$ in parallel with $<150pF$ capacitance on any range
Input Protection	750V rms on all ranges
AC Filter Bandwidth	Slow: 3Hz - 300kHz Medium: 20Hz - 300kHz
CMRR	70 dB, for the 1 k $\Omega$ unbalance in LO lead, $<60Hz, \pm 500VDC$ peak maximum.

**True RMS AC Current**

Measurement Method	Direct coupled to the fuse and shunt; AC-coupled True RMS measurement (measure the AC component only).
Crest Factor	$\leq 3$ at full range
Max. Input	DC + AC current peak value $<300\%$ of range. The RMS current $<10A$ rms including the DC component
Shunt Resistor	100 $\Omega$ for 200 $\mu A$ , 2mA 1 $\Omega$ for 20mA, 200mA 0.01 $\Omega$ for 2A, 10A
Input Protection	Externally accessible 500mA, 250V fast blow fuse at the rear panel for 200 $\mu A$ , 2mA, 20mA and 200mA ranges. Internal 10A, 250 V slow blow fuse for 2A and 10A ranges.

**Warranty** three years

**Standard Accessories** Yes

**TECHNICAL SPECIFICATIONS FOR DC POWER SOURCE - 08 Nos**

Resolution	Voltage/Current (Rated value)	OVP/OCP (Maximum Range)
CH1 1mV	0 to 8V/0 to 5A	1mV to 8.8V/0.1mA to 5.5A
CH2 1mV	0 to 30V/0 to 2A	1mV to 33V/0.1mA to 2.2A
CH3 1mV	0 to -30V/0 to 2A	-1mV to -33V/0.1mA to 2.2A
Load Regulation Rate $\pm$ (Output Percentage+Offset)		
Voltage	<0.01%+2mV	
Current	<0.01%+250 $\mu$ A	
Linear Regulation Rate $\pm$ (Output Percentage+Offset)		
Voltage	<0.01%+2mV	
Current	<0.01%+250 $\mu$ A	
Power	AC Input (50Hz-60Hz)	
Warranty	three years	
Standard Accessories	Yes	

TECHNICAL SPECIFICATIONS FOR SPECTRUM ANALYZER - 02 NOS**Frequency**

Frequency range 9 kHz to 3.2 GHz

Frequency resolution 1 Hz

**Internal Reference Frequency**

Reference Frequency 10 MHz

Accuracy Specify

Marker resolution span/ (number of sweep points - 1)

Frequency Counter- Resolution 1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz

Frequency Span 0 Hz, 100 Hz to maximum frequency of instrument

Bandwidths Specify

Amplitude Specify

Level Display Specify

Frequency Response Specify

RF Input VSWR Specify

Distortion Specify

Spurious Response Specify

Sweep Specify

Tracking Generator Specify

**Input /Output**RF input impedance 50  $\Omega$  (nom.)

connector N female

Tracking generator output impedance 50  $\Omega$  (nom.)

connector N female

Internal/ External Reference Specify

External Trigger Input Specify

Communication Interface Specify

N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75  $\Omega$  to 50  $\Omega$  adaptor,  
900 MHz/1.8 GHz antenna (2pcs), 2.4 GHz antenna (2pcs) Yes(one Kit)

N(F)-N(F) adaptor (1pcs), N(M)-N(M) adaptor (1pcs), N(M)-SMA(F) adaptor (2pcs), N(M)-BNC(F) adaptor (2pcs), SMA(F)-SMA(F) adaptor (1pcs), SMA(M)-SMA(M) adaptor (1pcs), BNC T type adaptor (1pcs), 50  $\Omega$  SMA load (1pcs), 50  $\Omega$  BNC impedance adaptor (1pcs)

	Yes(One Kit)
50 $\Omega$ to 75 $\Omega$ adaptor (2pcs)	Yes
6dB attenuator (1pcs),	Yes
10dB attenuator (2pcs)	Yes
RF demo kit (transmitter)	Yes
RF demo kit (receiver)	Yes
VSWR bridge, 1 MHz to 2 GHz	Yes
near field probe	Yes
EMI Pre-compliance test software	Yes
USB cable	Yes
<b>Warranty</b>	<b>three years</b>
<b>Standard Accessories</b>	<b>Yes</b>



**SPECIMEN FORM OF BID SECURITY**

By this Bond we ..... (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at ..... (hereinafter called "the Surety") are held and firmly bound onto ..... (hereinafter called the Authority") in the sum of ..... for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents.

Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of ..... and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

**Now the Conditions of this Bond are:**

- (a) 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.
  - (ii) In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand form the Authority stating that.
  - (i) The Bidder has withdrawn his Tender during the validity of this Bond, or
  - (ii) The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance or forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this ( ) day of ( ) 20 ( )

For and on behalf of the Bidder  
-----  
-----

For and on behalf of the Surety  
-----  
-----

Signed by -----  
In the capacity of -----  
and by -----  
In the capacity of -----

Signed by -----  
In the capacity of -----  
and by -----  
In the capacity of -----

Seal (where applicable)

Seal (where applicable)

**DELIVERY SCHEDULE**

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER)

TENDER NO :

ITEM : .....

QTY : .....

DURATION	QTY
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
<b>TOTAL</b>	

NAME OF THE BIDDER : .....

SIGNATURE OF BIDDER : .....

DATE : .....

COMPANY SEAL : .....