



TENDER NO. 09/2021-22/NIE

**PROCUREMENT OF HAND HELD OSCILLOSCOPE, ADVANCE DIGITAL
OSCILLOSCOPE, ARBITRARY FUNCTION GENERATOR, SMART-UPS +
INSTALLATIONS, DEEP CYCLE, DRY CELL BATTERIES, DUMMY LOADS AND
DIGITAL OSCILLOSCOPE FOR GENERAL PURPOSE LAB**

S.#	Description	Qty	Unit Price	Total Price
1.	Hand Held Oscilloscope with standard accessories and following specifications Make: Any Renowned Manufacturer Specifications: <ul style="list-style-type: none">• Band Width: 60 MHz-500 MHz• Channels: 2/4 Channels• Sample Rate: 5Gsample/s• Max Memory: Depth 500kpts• Optional MSO: 8 Digital Channels• Battery Backup & Power Adapter• After sales service required• With equivalent or Above	01		
2.	Advance Digital oscilloscope with standard accessories and following specifications Make: Any Renowned Manufacturer Specifications: <ul style="list-style-type: none">• Band Width: 200 MHz-1 GHz• Channels: 4 Channels• Sample Rate: 5G sample/s• Max Memory Depth: 200 Mpts• Optional MSO: 16 Digital Channels• After sales service required• With equivalent or Above	01		
3.	Arbitrary Function Generator with standard accessories and following specifications Make: Any Renowned Manufacturer Specifications: <ul style="list-style-type: none">• Display Specification: Resolution 1 uHz or above• Hardware Features: Length: 8pts ~ 16 Mpts or above• Working Mode: Output On/Off, Continuous, Modulation, Sweep, Burst	01		

	<ul style="list-style-type: none"> • Technical Specifications: Sampling Rate 320 MS/s or above • General Specifications: Channels 02 or above • Interfaces: USB Host, USB Device, 50 MHz or above. • Power: 100V~260 V ACrms, 50Hz/60Hz • Vertical Resolution: 32 bits (Symbol Included) • Waveform: Sine, Square, Ramp, Triangular Noise, DC, Arbitrary, Harmonic • After sales service required • With equivalent or Above 			
4.	<p>Smart-UPS + Installations with standard accessories and following specifications</p> <p>Make: Any Renowned Manufacturer</p> <p>Specifications:</p> <p>Output</p> <ul style="list-style-type: none"> • Output power capacity :3.0 kVA • Nominal Output Voltage :230V • Efficiency at Full Load :90 % • Output Voltage Distortion: Less than 3% • Output Frequency (sync to mains) :50/60 Hz +/- 3 Hz user adjustable +/- 0.1 • Other Output Voltages :220 • Topology: Double Conversion Online • Waveform type: Pure Sine wave • Output Connections :(1) Hard Wire 3-wire (H N + G) (Battery Backup) • Bypass: Built-in Bypass <p>INPUT</p> <ul style="list-style-type: none"> • Nominal Input Voltage :230V • Input frequency :50/60 Hz +/- 5 Hz (auto sensing) • Cord Length :2.44meters • Input voltage range for main operations :160 - 280V • Input voltage adjustable range for mains operation :100 - 280V • Efficiency at Full Load :90.0 % • Other Input Voltages :220 <p><u>SURGE PROTECTION AND FILTERING</u></p> <ul style="list-style-type: none"> • Surge energy rating :420Joules • Data Line Protection: RJ-45 Modem/Fax protection (four wire dual line) • Filtering: Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time • With equivalent or Above 	01		
5.	<p>Deep Cycle, Dry Cell Batteries with standard accessories and following specifications</p> <p>Make: Any Renowned Manufacturer</p>	06		

	<p>Specifications:</p> <ul style="list-style-type: none"> • Voltage: 12 V • Current: 150AH or above • Initial Charging Current :30Amps (15% of rated capacity) • Manufactured in 2021 • 5 Years Life Warranty • With equivalent or Above 			
6.	<p>Dummy Loads with standard accessories and following specifications</p> <p>Make: Any Renowned Manufacturer</p> <p>Specifications:</p> <p>Attenuators:</p> <ul style="list-style-type: none"> • Multiple RF attenuator kit box • Attenuation Value: 03dB,6dB,10dB, 20dB, 30dB and 40 dB and above • Connector's type: Bidirectional, Variable, Fixed, N - N-Type, A – SMA, Male/Female, Female/Female, Male/Female. • Power Rating: Multiple power rating up to 100 watts • Frequency: DC to 18 GHz or above • DC Blocks: • RF DC block of multiple value ranges • Type: SMA, N-Types and other • Operation: up to 8GHz • Min Volt: 5V • To block a voltage of up to 50V and for a maximum RF power of 2W • Insertion loss of less than 0.3dB all the way up to 6GHz • After Sales Service Required • With equivalent or Above 	02 (01 Kit of each)		
7.	<p>Digital Oscilloscope with standard accessories and following specifications</p> <p>Make: Any Renowned Manufacturer</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Bandwidth: 200MHz • Channels: 2/4 • Sampling rate: 1GSa/s • Trigger type: Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Video • Display Type:7-inch TFT-LCD (800x480) or above • Record length up to 14 Mpts. • USB AWG Module • With equivalent or Above 	01		



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TERM & CONDITIONS:

1. Price to be quoted in Pak Rupees on (FOR) free home delivery basis.
2. As the equipment/ items to be procured are based on high tech technology therefore for competitive bidding single stage-two envelopes bidding procedure shall be adopted.
 - (i). the bid shall be comprised a single package containing two separate envelopes, containing separately **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”**.
 - (ii). the envelope shall be marked as **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”** in the bold, properly sealed and with legible letters to avoid any confusion.
 - (iii). initially the envelope marked with **“TECHNICAL PROPOSAL”** shall be opened.
 - (iv). the envelope marked with **“FINANCIAL PROPOSAL”** shall be retained in the custody of NIE without being opened.
 - (v). upon evaluation of technical proposals, NIE shall publically open the financial proposal of the technically accepted bids only. The financial proposal of the bids found technically rejected shall be returned un-opened to the respective firms.
3. The bids of the firm operating from their residential address and P.O. Box number will not be considered.
4. Tender number must be specified on the left corner of the bidding envelope.
5. The rates should be valid for at least **“90”** days from the date of tender opening.
6. The offered equipment/ items must be brand new of the original manufacturer and covered under normal warranty/guarantee with necessary back-up support.
7. The bid must be supported with necessary catalogue/ brochure indicating make, model detailed specification and country of origin of the offered equipment.
8. The scope of supplies includes supply of equipment, installation, testing and commissioning of equipment and if necessary training to NIE Personnel's.
9. The financial bid should reflect at sight the following costs separately for fair comparison purpose.
 - i. Unit Price of equipment.
 - ii. GST, if applicable.
10. **Non-Blacklist Affidavit/ Certificate** confirming that bidder has never been blacklisted by any government organization.
11. Conditional/ ambiguous bids will not be entertained.
12. Earnest money @ 2% of quoted prices (Refundable) must be accompanied with tender in shape of a crossed bank draft/ pay order in favour of the Director General NIE.

13. E/M of the successful bidder will be refunded upon submission of prescribe performance/ bank guarantee to NIE and the same shall be released after satisfactory completion of warranty/ guarantee period of the supplied goods.
14. NIE may ask the successful bidder to provide 5% performance/ bank Guarantee of the total order value of the order to NIE for satisfactory execution of the supply order.
15. The bid found to be lowest evaluated bid shall be accepted only either overall whole tender/items base or each item wise.
16. The estimated delivery/ completion period of supplies/ work must be specified in the quotation.
17. In case of any delay in supplies of ordered items, the successful bidder shall bound to inform NIE to prior to "15" days of the ending of last date of delivery, so that necessary approval regarding extension in delivery period may be obtained from Director General NIE otherwise at the time of payment to firm a penalty @ 2% per month of the total order value will be charged from the successful bidder without any notice.
18. Tender of all items may be awarded either to a single party or can be divided among different parties depending upon their professional capabilities and competitiveness in prices individually.
19. **No advance payment will be made.**
20. NTN and GST number must be mentioned on the quotation along with providing copy of its documentary evidence, failing which bid will not be considered.
21. Payment will be made on submission of the prescribed bill in duplicate through crossed cheque after satisfactory completion of supply order and our acceptance thereof, which includes installation, testing, commissioning of the equipment and training etc.
22. As per Government Policy payment to the firm is subject to the registration of firm name in **Active Tax Payer List of FBR**, otherwise payment will be stopped till the appearance of vendor name in ATL of FBR.
23. Income Tax/ Sales Tax etc. will be deducted from bill as per Govt. Rules.
24. Last date for receipt of the tender in the Procurement Section of NIE is **November 22, 2021 up to 11:00 hours**. Technical proposals of the received firms shall be opened on the same day at **11:30 hours** in the presence of those who wish to be present. Tenders received late will not be considered in any case.
25. The Director General NIE reserves the right to accept or reject any or all tenders in part or whole, or change the quantity of tendered items as per provision of PPRA Rules.

GUL HAYAT KHAN
Dy. Director Procurement
NIE, Islamabad
Ph: 051-9265009 (Ext: 217)