



TENDER NO. 13/2021-22/NIE

PROCUREMENT OF MISC. EQUIPMENT, COMPONENTS, PARTS AND ACCESSORIES
FOR TEST BED DEVELOPMENT FOR PRECISION AGRICULTURE – WSN LAB

S. #	Description	Qty	Unit Price	Total Price
1.	<p>Smart Agriculture Xtreme with following specifications and accessories: -</p> <p>Make: Libelium OR Equivalent</p> <p><u>Specifications:</u></p> <ul style="list-style-type: none"> ✓ Non-contact surface measurement: SI-411 ✓ Leaf and flower bud temperature:SF-421 ✓ Soil Oxygen Level: SO-411 and SO-421 ✓ Solar Radiation (Shortwave, PAR and UV: SP 510, SQ-100x and SU-202. ✓ Air temperature, Humidity, Pressure, Volumetric Water Content and Soil Temperature: TEROS 11 ✓ Conductivity water content and soil temperature: Teros12 ✓ Soil Water Potential: TEROS 21 ✓ Soil Water Potential: MPS-6 ✓ Vapor Pressure, Humidity, Temperature and Air Pressure Sensor Probe: (Meter ATMOS 14) ✓ Leaf Wetness Phytos: 31 ✓ Trunk, Stem and Fruit Diameter: DC3, DD-S and DF ✓ Advanced Weather Stations, ✓ Luminosity (Luxes Accuracy) ✓ Ultrasound (Distance Measurement): 4-20mA type (Generic Input) ✓ RS-232 Type (Generic Input) ✓ Datasol MET (Photovoltaic uses) ✓ Meshlium 4G 868/900 AP (Licensed) and Plug and Sense SA-PRO 868/900-PRO ✓ Other accessories (All related software) 	02 Nos.		
2	<p>Soil Monitoring System with standard accessories and following specifications:</p> <p>Make: JXCT OR Equivalent</p> <p>Part No. JXCT 3001-XX OR Equivalent</p> <p><u>Specifications (Sensor/ Probes):</u></p> <ul style="list-style-type: none"> ✓ Soil Temperature ✓ Moisture NPK, PH, EC, Sutter Box, Wind Speed, PAR, Evaporation and Rainfall Monitoring ✓ Additional Solar Power Supply/ Panel. ✓ Soil Moisture, Temperature: PH, NPK Sensors with NB-IOT ✓ LORA and 4 G Communication System and any additional accessories (Software/Hardware). 	01 No.		

3	<p>Wi-fi Plant Sensor with Standard Accessories and following specifications:</p> <p>Make: Koubachi OR Equivalent Part No. K001 OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Wireless Live Monitoring ✓ Accurate Vitality Diagnosis ✓ Water Control ✓ Temperature Monitor ✓ Light Advice and Alerts. ✓ Relevant Software 	01 No.		
4.	<p>LCD Smart Soldering and De-Soldering Station with standard accessories and following specifications:</p> <p>Make: Pro's Kit OR Equivalent Part No. SS-259 OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ 90 Watts 	01 No.		
5	<p>Screw Driver/ Pliers Kit with following specifications:-</p> <p>Make: Pro's Kit OR Equivalent Part No. 1PK-1700NB</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Common use tools for installation and maintenance in electronics and electrical field. 	01 No.		
6	<p>Nodemcu Wemos D1 Mini Wifi Development Board for Arduino IDE 12F ESP32-MESH Kit (Pack of 3):-</p> <p>Make: Arduino OR Equivalent Part No. ESP8266-ESP-12F or Equivalent</p>	01 No.		
7.	<p>Arduino Mega 2560 R3) with following detail:-</p> <p>Make: Arduino OR Equivalent Part No. B187, TMD50 OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Microcontroller based Board with USB Cable 	02 Nos.		
8	<p>Arduino MKR1000 Wifi with following detail:-</p> <p>Make: Arduino OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Based on ATMEL ATSAMW25 SoC with operating Voltage of 3.3V 	01 No.		
9	<p>Arduino Mega ADK R3 ATmega 2560 Compatible Google ADK with USB and following specifications:-</p> <p>Make: Arduino OR Equivalent Part No. NA007-AR040</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ ATMEGA 2560 ✓ Operating Voltage-5V 	03 Nos.		

10	<p>Arduino Starter Kit with Jumper Wires with following specifications:-</p> <p>Make: Arduino OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Jumper Wires ✓ Breadboards ✓ Push Buttons ✓ LCD, Buzzer etc. 	01 No.		
11	<p>Electrical Terminal & Crimping Toolkit with following specifications:</p> <p>Make: Pro's Kit OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Wire Terminals and Connectors Assortment with 3-in-1 ✓ Wire Stripper ✓ Cutter and Crimper Tool 	01 No.		
12	<p>Desktop Computer (All in one) with windows 10 Pro (Licensed) and standard accessories with following specifications:-</p> <p>Make: HP/Dell OR Equivalent</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Core i-7, 10th Generation ✓ Ram: 16GB ✓ Hard Disk: 500GB/ ITB ✓ LCD Screen Size: 17" ✓ Wireless wifi Card ✓ Wireless Mouse and Keyboard. ✓ Windows 10 Pro (Licensed) 	02 Nos.		
13	<p>LaserJet Professional Printer with standard accessories and following specifications:-</p> <p>Make: HP/ Dell OR Equivalent Part No. MFP M428fdn</p> <p>Specifications:</p> <ul style="list-style-type: none"> ✓ Print, Copy, Scan, Fax ✓ Printing Speed: up to 40 PPM (black) ✓ Auto Duplex Printing Scan to feature: 50-Sheet ADF ✓ 2-Paper Trays (Standard) ✓ Security Detect and Stop Attacks ✓ Wifi/ Cable connectivity 	01 No.		



TENDER NO. 13/2021-22/NIE

PROCUREMENT OF MISC. EQUIPMENT, COMPONENTS, PARTS AND ACCESSORIES
FOR TEST BED DEVELOPMENT FOR PRECISION AGRICULTURE – WSN LAB

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 upto 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)