



# TENDER DOCUMENTS

**Procurement of Lab Equipment**

**NUTECH / SCM /EED-NRPU Proj 24-25 / TD-340**

**NATIONAL UNIVERSITY OF TECHNOLOGY, IJP ROAD, I-12, ISLAMABAD**



## TENDER NOTICE

### **NUTECH / SCM /EED-NRPU Proj 24-25 / TD-340**

1. Electronic bids are invited from Government / FBR Registered firms (active taxpayers) for the procurement of **Lab Equipment** on FOR Basis.
2. Bidding documents containing detailed terms & condition for submission of bids, method of procurement (**Single Stage Two Envelopes**), eligibility & evaluation criteria etc. are available for register bidder on EPADS.
3. **Tender Documents** can be downloaded from **NUTECH/EPADS** website and Bids will be submitted as per requirements mentioned in the tender documents. Bid will be submitted through EPADS and bidders will submit their original CDR of 5% of quoted amount in the favour of "NUTECH Tendering and Contracts".
4. Detail of bids and submission of tender is provided below: -

Sr.	Description	Bank Account Details	Tender Fee	Tender Submission	Tender Opening
a.	EED-NRPU Project	HBL, Tendering and Contracts, A/C # 5037-7000210755	Rs 2,000/-	1000 hrs. on 28 Feb 2025	1030 hrs. on 28 Feb 2025
<b>Note: -</b> <ul style="list-style-type: none"> <li>• Tender fee in shape of CDR/PO/DD will be acceptable.</li> <li>• Offer will not be entertained without payment of tender fee.</li> </ul>					

**Supply Chain Management Office (SCM)**  
 National University of Technology, (NUTECH)  
 Main IJP Road, Sector I-12, Islamabad  
 Ph: 051-5476768, Ext: 278, 308  
**Cell No# 0301-8081726**  
 Email Add: [scm.office@nutech.edu.pk](mailto:scm.office@nutech.edu.pk)

## Compliance – Check List

Offer must be quoted and arranged in accordance with below mentioned sequence.

Non-compliance & non-provision of following documents may lead to disqualification.

Sr.	Required Particulars	Documents Attached	
		Yes / No	Page #
1.	Tender Fee Original Receipt (Rs 2,000/-)		
2.	NTN/GST Registration		
3.	All Annexures & Special Conditions Compliance Note: All annexures must be as per given format.		
4.	OEM Registration / Authorization Certificate (if applicable)		
5.	OEM Details (if applicable)		
6.	Original bid security 5% of quoted amount		
7.	Proforma Invoice (if applicable) (prices hidden)		
8.	OEM / Equipment brochures & details		
9.	Non-Blacklisting Certificate		
10.	Firm's Complete details (address, contacts & email)		

## Tender Documents

1. NUTECH desires to procure item(s)/ Store(s) on FOR Basis as per **Annexure-A**. Interested bidders are requested to upload their bids on EPADS & also submit a hard copy of the same documents in manual at NUTECH (SCM office) under “**Single Stage Two Envelopes**”, procedure latest by or before above mentioned due date.
2. **Conditions Governing Contracts.** The contract made as result of this tender documents will be in accordance with the draft contract published on NUTECH University website and other special conditions (Mentioned in this document) that may be added to given contract for the supply of equipment.
3. **Participating in Tender.** The offer is to be submitted as under: -
  - a. **Technical Offer.** Technical Offer should contain only Annexure-A & Annexure B duly filled in (supported with relevant technical literature / details / catalogues etc) and receipt of tender processing fee. Original bid security will be submitted to SCM office separately.
  - b. **Relevant technical details** Literature/brochures etc. without mentioning the financial aspect of the offer should be enclosed in an envelope. In proposal, all items must have the brand names, model number, manufacturer’s name, country of origin, warranty including parts with complete specs and brochures. Re-conditioned and re-furbished equipment shall not be acceptable. Following information will be clearly marked on the envelope:
    - (1) Technical Offer
    - (2) Original Performa Invoice (without price)
    - (3) Tender number
    - (4) Date/ time of opening
  - c. **Financial Offer.** Financial offer will contain Annexure-C. The offer indicating the quoted price FE / Local Currency (in Local Currency for FOR cases & FOB cases) in figures as well as in words would be enclosed in an envelope. Financial offer will also be uploaded on E-PADS as well as technical offer. For submission of financial & technical offer in SCM office, following information will be clearly marked on the envelope.
    - (1) Financial offer
    - (2) Original Performa invoice with price
    - (3) Tender number
  - d. Both the envelopes i.e. financial offer and technical offer would be enclosed in yet another properly manual envelope that will be marked with address of this office only. There should be clear indication that this envelope contains tender documents.

e. The tender duly manual will be addressed to the following: -

(Supply Chain Management Office) Adm Block, 2<sup>nd</sup> floor, /NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH)

4. **Tender Opening.** The offers shall be processed on EPADS given time. Financial offers will be opened at later stage if technical offer is found acceptable on examination by technical authorities. Date and time for opening of commercial offer shall intimate later. Only legitimate / registered representatives of firm will be allowed to attend tender opening.
5. **Validity of Offer.** The validity period of quotations must be indicated and should be **90 days** from the date of opening of financial offer.
6. **Withdrawal of offer** If the firm withdraws its offer within validity period the competent authority may place such firm under embargo for a period, which may be extended up to one year. Moreover, the bid security of the firm will be confiscated.
7. **Documents.** Following information / copy of documents must be provided / attached with offer:-
  - a. A copy of letter showing firm's financial capability.
  - b. NTN/GST number be mentioned on the offer and copy of registration certificate issued by sales tax department, attached.
  - c. Foreign supplier to provide its registration number issued by respective department of Commerce authorizing export of subject stores **(in FOB cases)**.
  - d. Annexes A, B and C and special conditions must be signed and stamped. Attach only relevant documents.
  - e. Complete all Annexes as per given format. Do not use your format or letter head. Offer may be rejected if given format is not followed.
  - f. OEM/principal agency agreement must be provided.
8. **Disqualification.** Offers are liable to be rejected if:-
  - a. Validity of offer is not quoted as required in tender documents.
  - b. Any deviation from the general/ special / technical instructions.
  - c. Offers are found conditional or incomplete in any respect.
  - d. Multiple rates/items are quoted against one item. Deleted
  - e. Manufacturer's relevant brochures and technical details on major equipment assemblies are not attached in support of specifications.
  - f. Offer will be received fixed date and time on EPADS.
  - g. Subject to restriction of export license.
  - h. Offers (financial/technical) containing non-initialed/ unauthenticated amendments/ corrections/overwriting. If the validity of the agency agreement has expired. The commercial offer against FOB / CIF / C&F tender quoted in local currency.

- i. If the offer is found to be based on cartel action in connivance with other sources/participants of the tender.

9. **Bid Security** Financial offer must be accompanied with a bid security (CDR/Pay order/Bank draft) in agreement of faithful compliance of the conditions of Contract. This amount will be equivalent to **5%** of the total quoted value. The bid security amount submitted by the successful bidder will however be refunded on effective termination of Contract. The bid security will be forfeited in case of default by the bidder from his commitments made through his offer. Submission of bid security is mandatory; otherwise your offer will be rejected. Bid security will be used as performance guarantee till the delivery of stores, otherwise separate performance guarantee valued at **5%** of contract will be submitted by successful firm till stores are delivered and inspected.

10. **Return of Bid Security**

- a. Bid security to the unsuccessful bidders will be returned on finalization of the lowest evaluated bidder.
- b. Bid security of the successful bidder/bidders will be returned on submission of bid security against warranty period or bid security retained for the warranty period as the case may be.

11. **Terms of Payment/ LC Charges**

**In FOB cases**

- a. All categories payment will be made through letter of credit (LC). LC opening charges in Pakistan are to be borne by NUTECH. Payment will be made through irrevocable LC in favor of manufacturer.

**In FOR cases**

- b. **20%** advance payment will be made to the seller on provision of unconditional CDR/PO/DD. Advance CDR/PO/DD will be submitted at the time of signing the contract.
- c. **80%** payment will be made to the seller after receipt and confirming the correctness of ordered specifications, installation, commissioning.

12. **Taxes/ Duties/ Custom clearance** All taxes /duties /import licenses fee as applicable under government laws in Pakistan as well as country of supplier shall be on seller (in FOR case). NUTECH will provide applicable exemption certificates and documents (In FOB Cases only).

13. **Insurance: -** Insurance will be seller's responsibility **(in FOR Cases)** and NUTECH's responsibility through NICL **(in FOB Cases)**.

14. **Freight charges /Misc charges:** All charges such as packing, forwarding, local freight, loading and unloading, installation and commissioning, custom clearance, orientations, on job training or any other will be part of quoted price. Delivery till NUTECH will be seller's responsibility and all associated costs will be part of quotation as well.

15. **Delivery Period.** Store will be delivered within **15 Days** from contract signing date.
16. **Force Majeure.** If non-compliance with the period of delivery or services can be proved to be due to Force Majeure, such as but not limited to mobilization, war, riot, strike, lockout, pandemics/epidemics or the occurrence of unforeseen events, the period shall be reasonably extended.
17. **Subletting** Suppliers are not allowed to sublet wholly or part of the contract to any other firm /company without prior permission by NUTECH. Firm found in breach of the clause will be dealt with as per purchaser's right and discretion.
18. **Arbitration.** Will be as under: -  
 "All Claims, disputes, controversies, differences arising out of or in connection with this contract, including any question regarding its existence, validity, interpretation performance, breach or termination, shall be referred to and shall finally be solved by binding arbitration. An arbitration committee shall be constituted comprising Rector NUTECH and two arbitrations to be nominated on mutual agreement by each party. The venue of the Arbitration shall be the place of issuance of this contract or as Rector NUTECH may determine. In case of any difference, the clauses of Arbitration Act 1940, Rules and Regulation made thereof for time being enforce shall prevail. The award shall be final and binding on both parties.
- a. Provided that written record of any such arbitration and its award shall be arranged properly.
  - b. An award of such arbitration may be confirmed in a court of competent jurisdiction at Islamabad.
  - c. Provided further that incase of any other question /dispute not covered under this clause, the decision of Rector NUTECH shall be final."
19. **Redress of Grievance.** In case of dispute, case shall be reviewed by NUTECH Redress of grievance committee and decision of NUTECH shall be final and binding on both parties.
20. **Export License/Permit /End User Cert.** It shall be the responsibility of the Supplier to obtain from the Government concerned all permits and export licenses, etc required to enable each consignment to be shipped immediately as per the delivery schedule. In case the supplier fails to arrange export license within 30 days of signing the contract the purchaser reserves the right to cancel the contract on the risk and expense of the supplier without prior notice. The purchaser will provide end user certificate for acquisition of export license to the supplier (format to be provided by the supplier for respective country within 10 day of signing of the contract).
21. **Technical Specification:** The supplier will provide OEM certificate, quality certificate /inspection document to the purchaser confirming the quality of the product being supplied under this contract Store must bear the manufacturer's identification marking /monogram.

22. **Inspection /Testing of Store**: Inspection testing will be carried out at NUTECH by the concerned inspection team as detailed by the respective department in accordance with the laid down Acceptance criteria. (Acceptance Test procedure (ATPs)/Drawing/Test standard and specification). The supplier will provide ATPs with technical offer. Mutually agreed/approved ATPs will form part of contract to govern the inspection of store subsequently.

23. **Change In Specification /Mfr /Model**. No alternation marked/brand and quality of store will be entertained after the tender have been opened.

24. **Checking of Store at Consignee/User End**. All stores will be checked at Consignee's end in the presence of the supplier's representative. If for some reason, the supplier decides not to nominate his representative for such checking, an advance written notice to this effect will be given by the supplier to the consignee prior to immediately on shipment of store. In such an event the supplier will clearly undertake that decision of consignee with regard to quantities and description of consignment will be taken as final and discrepancy found will be accordingly made up by supplier. In all other cases the consignee will inform the supplier about arrival of consignment immediately on receipt of store through registered email/letter and telephone. If no response from the supplier is received within 15 days from initiation letter the consignee will have the right to proceed with the checking without supplier's representative. User/Consignee's report on checking of the stores will be binding on the seller in such cases.

25. **Packing /Marking**. The supplier shall be responsible for proper packing of the Store in standard export packing worthy of transportation by sea /air /road rail so as to ensure their content being free from lose or damages due to faulty packing on arrival at the ultimate destination. Packing of stores will be done at the expenses of the supplier. All packing cases, containers and other packing material shall become the property of the NUTECH on receipt. Any loss occurred /demurrage paid due to wrong marking will be made good by the supplier.

26. **Original Performa Invoice**: Original Performa invoice must have following components incorporated: -

- a. HS Code
- b. Incoterm
- c. Payment Terms
- d. Origin of good
- e. Port of shipment
- f. Address of OEM
- g. Seller acceptance (on Performa Invoice)
- h. Invoice Date
- i. Latest date of shipment
- j. Seller complete bank detail



**Note:-** Performa Invoice in the name of NUTECH in case of FOB cases & in the name of local partner in case of FOR cases.

27. **General Instructions:** Following must be noted: -
- a. The firm should provide point to point acceptance of each clause of tender documents and special instructions attached with tender documents.
  - b. Firm will render a certificate with technical offer that firm is neither defaulter nor blacklisted by any government / semi government organization directly or indirectly. (On Judicial Paper)
  - c. Rates should be quoted on free delivery basis at NUTECH Islamabad.
  - d. The stipulated delivery period should be strictly adhered to. Any anticipated delay that is beyond the control of Seller will be informed (in writing) well in advance of the expiry of the due date of the activity along with reasons thereof, requesting for the grant of extension in delivery period. If the Seller fails to do so, or the Buyer is not convinced with the rationale provided by the seller, liquidated damages up to/at 2% per month or part thereof, will be imposed. However, the maximum limit of the liquidated damages will not exceed 10% of the delayed store value.
  - e. If even after applicability of 10% LD, the Seller fails to deliver the required stores, the buyer will be at liberty to cancel the contract, and /or procure the of stores from an alternate source, on the seller's "Risk & Cost/Expense". In that case, the seller will be bound to make payment to the new source through NUTECH. The purchaser's decision under this clause shall currency/execution/after placement if the firm is found to be involved in any dubious activity, litigation, lacking to meet contractual obligations with the purchaser or is blacklisted with any other public procurement agency. No claims / loss /damage of whatsoever nature shall be entertained and NUTECH's NOT be subjected to arbitration.
  - f. NUTECH reserves the right to cancel the contract without assigning any reason whatsoever during its decision in this regard will be final / binding on the seller.
  - g. An appropriate amount may be paid for mobilization against CDR/DD/Pay Order.
  - h. Firms with previous pending/outstanding projects/business and unsatisfactory performance with NUTECH may not be considered for award of any further business.
  - i. Lowest evaluated bidders must send their authorized representatives (with authorization letter) for signing of the contract within three days of sharing of the draft contract.
  - j. For technical opening firm will send a representative who has knowledge about the quoted items otherwise representative will not be allowed to sit in tender opening.

k. **Stamp duty for Contract will be taken as per Section 22-A of Stamp Act 1899 Pakistan.**

l. **Business will be awarded on LOT Basis.**

28. **Warranty** 01 Year Warranty will be required from the successful bidders from the date of commissioning.

**Annex-A**

**Technical Specification**

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
<b>LOT A</b>								
1	Weather Station with Direct-to-Wi-Fi Display with Lightning Detection and Solar Power Pack with Soil Temperature Humidity Moisture Conductivity EC PH Sensor integrated for Agricultural Use	<ul style="list-style-type: none"> <li>● <b>Get Weather Alerts Anywhere:</b> Simplify the experience with a direct Wi-Fi signal to allow for remote monitoring – no hub needed</li> <li>● <b>Connectivity to Weather Underground:</b> Connects to WUnderground where data points can be shared with 250,000+ personal weather stations across the globe</li> <li>● <b>HD Display with Battery Backup:</b> Allows clear readability from any angle, plus saves data in case of a power outage; named Best Weather Station Display for 2023 by The Spruce</li> <li>● <b>Connected Weather Forecast:</b> Provides a hyper-accurate 12-24 hour forecast for your precise location</li> <li>● <b>Lightning Detection:</b> Be prepared for potential thunderstorm activity with lightning strikes detected up to 25 miles away</li> <li>● <b>Real-Time Weather Conditions:</b> Indoor and outdoor temperature, humidity, wind speed, direction, UV, pressure trends, and rain totals</li> <li>● <b>Eliminate Battery Changes:</b> Replaces the need for AA batteries in your AcuRite Iris or AcuRite Atlas weather sensors</li> </ul> <p><b><u>Included in this Bundle</u></b></p> <ul style="list-style-type: none"> <li>● Direct-to-Wi-Fi Display</li> <li>● Lightning Detection Sensor</li> <li>● Weather Sensor</li> <li>● Solar Power Pack for AcuRite Iris and AcuRite Atlas Weather Stations</li> </ul> <p><b><u>Outdoor Sensor</u></b></p> <ul style="list-style-type: none"> <li>● Measures temperature, humidity, wind speed, wind direction, rainfall, and UV index</li> <li>● Modular design allows for upgradability and expandability</li> <li>● Three solar panels maximize sun exposure to power an internal aspirating fan, allowing for accuracy within 1°F</li> <li>● Faster updates: Transmits data every 10 seconds</li> <li>● Strong wireless range up to 330 feet (100 meters)</li> <li>● Easy setup: includes bracket for wall/post mounting and features an integrated tightening knob for pole mounting</li> </ul>	American / European /Asian	Nos	1	YES		

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>• Compatible with My AcuRite for remote monitoring</li> </ul> <p><b><u>Direct-to-Wi-Fi Display Features:</u></b></p> <ul style="list-style-type: none"> <li>• Direct-to-Wi-Fi sends weather information directly to My AcuRite or Weather Underground using Rapid Fire through your internet connection</li> <li>• Large font display is easy-to-read from almost any angle</li> <li>• Time and date readout</li> <li>• Auto-dimming brightness setting</li> <li>• Backup battery options (batteries not included)</li> <li>• Shows historical weather information, including enhanced rainfall history</li> <li>• Includes a connected 12-24-hour future forecasts</li> <li>• Displays comprehensive weather information including indoor/outdoor temperature with trend arrow, heat index, dew point, indoor/outdoor humidity, barometric pressure with trend arrow, wind speed/direction &amp; max wind readout</li> </ul> <p><b><u>Lightning Detector</u></b></p> <ul style="list-style-type: none"> <li>• Adds lightning detection to your AcuRite Atlas</li> <li>• Allows for early warning of lightning-producing storms</li> <li>• Detects lightning strikes within 25 miles (40 kilometers)</li> <li>• Enables lightning strike counter and estimated distance to latest strike</li> <li>• Easy setup - plugs directly into the battery compartment of your AcuRite Atlas</li> </ul> <p><b><u>Solar Power Pack</u></b></p> <p>The AcuRite Solar Power Pack replaces the need for AA batteries in the AcuRite Atlas or AcuRite Iris weather sensors (sold separately).</p> <p>Includes: Solar Power Pack, mounting hardware, instruction manual</p> <p><b>Includes:</b> Atlas Direct-to-Wi-Fi Display with power adapter, Atlas Outdoor Sensor, lightning detector, Solar Power Pack, zip ties, mounting hardware, instruction manuals</p> <p><b><u>Specifications</u></b></p> <ul style="list-style-type: none"> <li>• Indoor Temperature Range 32 to 122° F 0 to 50° C</li> <li>• Power 5V power adapter (included), 3 AAA alkaline batteries (for backup ONLY not included)</li> </ul>						

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● Dimensions Display (with antenna): 9.8" Height x 6.8" Width x 0.75" Depth</li> <li>● Indoor Humidity Range: 1% to 99% RH</li> <li>● Wind Direction Indicators: 360 Degrees</li> <li>● Indoor Temperature Accuracy +/- 2 Degree Fahrenheit</li> <li>● Indoor Humidity Accuracy +/- 4% below 20% and above 80% Relative Humidity +/- 2% from 20% to 80% Relative Humidity</li> </ul> <p><b><u>AcuRite Atlas Lightning Detection Sensor</u></b></p> <ul style="list-style-type: none"> <li>● Lightning Detection Range 1 to 25 miles (1.6 - 40 kilometers)</li> </ul> <p><b><u>AcuRite Atlas Weather Sensor</u></b></p> <ul style="list-style-type: none"> <li>● Temperature Accuracy: +/- 1° F</li> <li>● Data Reporting Temperature: 30 seconds Humidity: 30 seconds Wind Speed: 10 seconds Wind Direction: 30 seconds Rainfall: 30 seconds UV Index: 30 seconds Light Intensity: 30 seconds</li> <li>● Power 4 AA alkaline or lithium* batteries *Lithium batteries recommended for temperatures below -4 degrees Fahrenheit / -20 degrees Celsius</li> <li>● Temperature Range -40 to 158° F -40 to 70° C</li> <li>● Humidity Range 1% - 99% RH</li> <li>● Humidity Accuracy +/- 2% from 0-90% and +/- 3% above 90%</li> </ul>						

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● Wind Speed 0 - 160 mph; 0 - 257 km/h</li> <li>● Wireless Range 330 feet (100 meters) depending on home construction materials</li> <li>● Wireless Signal: 433 MHz</li> <li>● Wind Direction: 360° Wind Direction Accuracy: +/- 3°</li> <li>● Rain: .01" intervals (0.25 mm)</li> <li>● Rain Accuracy: +/- 5%</li> <li>● UV Index: 0 - 15 index</li> <li>● UV Accuracy: +/- 1</li> <li>● Light Intensity to 120,000 Lumens</li> <li>● My AcuRite Compatible: Yes</li> </ul> <p><b><u>Solar Power Pack for AcuRite Iris and AcuRite Atlas Weather Stations</u></b></p> <ul style="list-style-type: none"> <li>● Power 1 x 18650 3.7v rechargeable lithium battery (included)</li> <li>● Dimensions: 10" Height x 9" Width x 2.5" Depth</li> <li>● Cord Length: 30 feet (9.1m)</li> <li>● Operating Outdoor Temperature Range -40°F to 158°F (-40°C to 70°C)</li> <li>● Solar Charging Temperature Range -4°F to 158°F (-20°C to 70°C)</li> </ul> <p><b><u>Weather Station should be integrated with Soil sensor which should be able to measure, transmit and store data mentioned below</u></b>  <b>Measuring Soil parameters</b>            Measure items /Parameters</p> <p><b>Temperature</b>            Measuring range: -40°C-80°C            Accuracy: ±5°C (25°C)            Long-term stability: ≤0.1%/y            Response time: ≤15s</p> <p><b>Humidity</b></p>						

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		Measuring range: 0-100%RH Accuracy: 2% within 0-50%, 3% within 50-100% Long-term stability: ≤1%RH/y Response time: ≤4s <b>Conductivity (EC)</b> Measuring range: 0-20000us/cm Accuracy: ±3% (0-10000 us/cm); ±5% (10000-20000 us/cm) Long-term stability: ≤1%uS/cm Response time: ≤1s <b>PH</b> Measuring range: 3-9 PH Accuracy: ±0.3PH Long-term stability: ≤5%/year Response time: ≤10S <b>Nitrogen Phosphorus Potassium</b> Measuring range: 1-1999 mg/kg(mg/L) Resolution : 1 mg/kg(mg/L) Response time: <1S <u><b>Important</b></u>  <b>Weather Station should come with a compatible mounting Tripod and relevant mounting screws.</b>						
<b>LOT B</b>								
2.	PC Workstation with Accessories	Ryzen 7 9700X 3.8 GHz 8-Core Processor MSI X670E Gaming Plus WIFI motherboard with Dual GPU support <ul style="list-style-type: none"> <li>● Model Name X670E GAMING PLUS WIFI</li> <li>● CPU Support Supports AMD Ryzen™ 9000 / 8000 / 7000 Series Desktop</li> <li>● Processors</li> <li>● CPU Socket AM5</li> <li>● Chipset AMD X670 Chipset</li> </ul>	American /European /Asian	Nos	1			

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● Expansion Slots 1x PCIe 5.0 x16 slot, 1x PCIe 4.0 x16 slot, 1x PCIe 3.0 x16 slot, 1x PCIe 3.0 x1 slot</li> <li>● Display Interface Support 4K@60Hz as specified in HDMI™ 2.1,</li> <li>● DisplayPort 1.4 - Requires Processor Graphics</li> <li>● Memory Support 4 DIMMs, Dual Channel DDR5</li> <li>● Storage 1x M.2 Gen5 x4 128Gbps slot</li> <li>● 3x M.2 Gen4 x4 64Gbps slots</li> <li>● 4x SATA 6Gb/s ports</li> <li>● USB ports 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)</li> <li>● 4x USB 3.2 Gen 2 10Gbps (1 Type-C + 3 Type-A)</li> <li>● 8x USB 3.2 Gen 1 5Gbps (8 Type-A)</li> <li>● 8x USB 2.0 (8 Type-A)</li> <li>● LAN RTL8125BG 2.5Gbps LAN</li> <li>● WiFi / BT AMD® Wi-Fi 6E, Bluetooth 5.3</li> <li>● Audio 8-Channel (7.1) HD Audio with Audio Boost</li> </ul> <p>Compatible CPU cooler Kingston NV3 1TB M.2 2280 PCIe 4.0 NVMe SSD SNV3S/1000G, 6000MB/s Gen 4x4 NVMe PCIe performance with speeds up to 6000MB/s.</p> <ul style="list-style-type: none"> <li>● M.2 2280</li> <li>● PCIe 4.0 x4 NVMe</li> <li>● 1TB - 6,000/4,000MB/s</li> <li>● 3D NAND</li> </ul> <p>Seagate 6TB Barracuda SATA 6Gb/s 256MB Cache 3.5-Inch Internal Hard Drive SPECS:</p> <ul style="list-style-type: none"> <li>● Capacity 2000 GB</li> <li>● Edition BarraCuda</li> <li>● Form Factor 3.5"</li> <li>● SSHD No</li> <li>● Flash Memory Size N/A</li> <li>● Flash Memory Type N/A</li> <li>● Height 20.17 mm</li> <li>● Rotation Speed 5400 rpm</li> </ul>						



Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● Sector Size</li> <li>● Cache 256MB</li> <li>● Access Time N/A</li> <li>● Host to/from Drive Sustained Transfer Rate 190 MB/s</li> <li>● Interface SATA 3.0 (6Gb/s)</li> <li>● Load/Unload Cycles 300,000</li> <li>● Annualised Workload Rating 55 TB/yr</li> <li>● Non-Recoverable Read Errors per Bits Read &lt;1 in 10<sup>14</sup></li> <li>● Max. Operating Shock</li> <li>● NCQ No</li> <li>● Max.Power Usage 5 W</li> <li>● Dimensions 101.6 x 20.17 x 146.99 (WxHxD mm)</li> </ul> <p>64 GB Ram (2 X 32 GB) Transcend DDR5 4800MHz C40 UDIMM Desktop Memory - JM4800ALE-32G</p> <ul style="list-style-type: none"> <li>● Unbuffered Long-DIMM</li> <li>● 4800MHz Memory Speed</li> <li>● 32GB DRAM Module</li> <li>● CAS Latency: CL40</li> </ul> <p>Memory Capacity: 32GB Brand: Transcend</p> <p>GeForce RTX 5070 Ti 16 GB GDDR7 Memory Bandwidth 896 GB/Sec OR GeForce RTX 4070 Ti SUPER SOLID 16GB GDDR6X Video Graphics Card</p> <p>PC Case must have 4 installed fans, able to accommodate above accessories and at least 2 GPUs.</p> <p>850 Watts PSU with 80+ Gold Rating fully modular that can work with ZOTAC GAMING GeForce RTX 4070 Ti SUPER</p> <p>M24fw 23.8" 16:9 Free Sync IPS Monitor</p> <ul style="list-style-type: none"> <li>● 23.8" In-Plane Switching (IPS) Display</li> <li>● 1 x HDMI 1.4   1 x VGA</li> <li>● 1920 x 1080 @ 75 Hz Native Resolution</li> <li>● 1000:1 Static Contrast Ratio</li> </ul>						

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● 300 cd/m<sup>2</sup> Brightness</li> <li>● 178 x 178° Viewing Angles</li> <li>● 5 ms Response Time (GtG with Overdrive)</li> <li>● Supports 16.7 Million Colors (6-Bit+FRC)</li> <li>● 99% sRGB Color Gamut Coverage</li> <li>● AMD FreeSync Support</li> </ul> Wired Keyboard and Mouse Must have windows installed and Include relevant screws and cables.						
3	Seagate 6TB Barracuda SATA 6Gb/s 256MB Cache 3.5-Inch Internal Hard Drive  6TB SATA HardDisk	SPECS: <ul style="list-style-type: none"> <li>● Capacity 2000 GB</li> <li>● Edition BarraCuda</li> <li>● Form Factor 3.5"</li> <li>● SSHD No</li> <li>● Flash Memory Size N/A</li> <li>● Flash Memory Type N/A</li> <li>● Height 20.17 mm</li> <li>● Rotation Speed 5400 rpm</li> <li>● Sector Size</li> <li>● Cache 256MB</li> <li>● Access Time N/A</li> <li>● Host to/from Drive Sustained Transfer Rate 190 MB/s</li> <li>● Interface SATA 3.0 (6Gb/s)</li> <li>● Load/Unload Cycles 300,000</li> <li>● Annualised Workload Rating 55 TB/yr</li> <li>● Non-Recoverable Read Errors per Bits Read &lt;1 in 10<sup>14</sup></li> <li>● Max. Operating Shock</li> <li>● NCQ No</li> <li>● Max.Power Usage 5 W</li> <li>● Dimensions 101.6 x 20.17 x 146.99 (WxHxD mm)</li> </ul> Must include SATA cable and screws for mounting.	American	nos	1	Yes		
4	Transcend DDR5 32GB 4800MHz C40	<ul style="list-style-type: none"> <li>● Unbuffered Long-DIMM</li> <li>● 4800MHz Memory Speed</li> </ul>	Asian	No	1	Yes		

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
	UDIMM Desktop Memory - JM4800ALE-32G	<ul style="list-style-type: none"> <li>• 32GB DRAM Module</li> <li>• CAS Latency: CL40</li> </ul> Memory Capacity: 32GB Brand: Transcend						
5	Laptop   Intel® Core™ i7/i5- 13/14th Gen, 16GB DDR4/5 (8GB x 2) ,512GB M.2 PCIe NVMe SSD	<ul style="list-style-type: none"> <li>• Intel® Core™ i7/i5- 13/14th Gen</li> <li>• 16GB DDR4/5 (8GB x 2)</li> <li>• 512GB M.2 PCIe NVMe SSD</li> <li>• Intel Iris Xe Graphics</li> <li>• with windows installed</li> </ul>	American	nos	01	Yes		
<b>LOT C</b>								
6	Raspberry Pi 5 8GB Ram with 27W USB-C Power Supply, Cooling Fan Active Cooler, Micro HDMI to HDMI Cable and 64GB Memory card.	Raspberry Pi 5 8GB Ram <ul style="list-style-type: none"> <li>• Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache</li> <li>• VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2</li> <li>• Dual 4Kp60 HDMI display output with HDR support</li> <li>• 4Kp60 HEVC decoder</li> <li>• LPDDR4X-4267 SDRAM ( 8GB SKU)</li> <li>• Dual-band 802.11ac Wi-Fi</li> <li>• Bluetooth 5.0 / Bluetooth Low Energy (BLE)</li> <li>• microSD card slot, with support for high-speed SDR104 mode</li> <li>• 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation</li> <li>• 2 × USB 2.0 ports</li> <li>• Gigabit Ethernet, with PoE+ support (requires separate PoE+ HAT)</li> <li>• 2 × 4-lane MIPI camera/display transceivers</li> <li>• PCIe 2.0 x1 interface for fast peripherals (requires separate M.2 HAT or other adapter)</li> <li>• 5V/5A DC power via USB-C, with Power Delivery support</li> <li>• Raspberry Pi standard 40-pin header</li> <li>• Real-time clock (RTC), powered from external battery</li> </ul> Raspberry Pi 27W USB-C Power Supply	European	Nos	01	Yes		

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<p>Input: 100-240Vac</p> <p>Output: 5.1V, 5A; 9V, 3A; 12V, 2.25A; 15V, 1.8A (Power Delivery)</p> <p>Connector: USB-C</p> <p>Cable: 1.2m 17AWG, white or black</p> <p>Cooling Fan Active Cooler</p> <ul style="list-style-type: none"> <li>● The cooling fan is dedicated to compatible for Raspberry Pi 5, perfect for the CPU.</li> <li>● Adjustable fan, active fan cooling mode, faster heat dissipation.</li> <li>● Aluminum alloy shell radiator, faster heat dissipation.</li> <li>● Simple Installation: The DC 5V fan runs smoothly and quietly, which is conducive to heat dissipation. It can be easily assembled with screws.</li> <li>● Low Noise: The blower, also chosen for low noise and extended operating life, pushes the air against the finned aluminum heat sink.</li> </ul> <p>Along with Micro HDMI to HDMI Cable And UHS-I 64GB Memory Card</p>						
7	NVIDIA® Jetson Orin™ Nano Super 8 GB Developer Kit + Accessories	<p>Features &amp; Specs</p> <ul style="list-style-type: none"> <li>● Jetson Orin Nano 8GB Module</li> <li>● GPU: NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores and 32 Tensor cores</li> <li>● CPU: 6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3</li> <li>● Memory: 8GB 128-bit LPDDR5 68 GB/s</li> <li>● Storage: external via microSD slot external NVMe via M.2 KeyM</li> <li>● Power: 7W to 15W</li> <li>● Carrier Board</li> <li>● Camera: 2x MIPI CSI-2 22-pin Camera Connectors</li> <li>● M.2 Key M: x4 PCIe Gen 3</li> <li>● M.2 Key M: x2 PCIe Gen3</li> <li>● M.2 Key E: PCIe (x1), USB 2.0, UART, I2S, and I2C</li> <li>● USB: <ul style="list-style-type: none"> <li>○ Type A: 4x USB 3.2 Gen2</li> <li>○ Type C: 1x for UFP</li> </ul> </li> </ul>	American	Nos	1			

Sr.	Items	Description	Country of Origin	A/U	Qty	OEM Auth	Bidder Compliance	
							Yes	No
		<ul style="list-style-type: none"> <li>● Networking: 1x Gbe Connector</li> <li>● Display: DisplayPort 1.2 (+MST)</li> <li>● microSD slot: UHS-1 cards up to SDR104 mode</li> <li>● Peripherals: <ul style="list-style-type: none"> <li>○ 40-Pin Expansion Header (UART, SPI, I2S, I2C, GPIO)</li> <li>○ 12-pin button header</li> <li>○ 4-pin fan header</li> <li>○ DC power jack</li> <li>○ Dimensions 100 mm x 79 mm x 21 mm (Height includes feet, carrier board, module, and thermal solution)</li> </ul> </li> </ul> <p>It should Include</p> <ul style="list-style-type: none"> <li>● Jetson Orin Nano Super module with microSD card slot</li> <li>● Reference carrier board (includes 802.11 plug-in WLAN &amp; BT module preinstalled with antenna)</li> <li>● 19V power supply</li> <li>● A small paper card with quick start and support information</li> <li>● USB Type A to Type-C cable</li> <li>● Ethernet cable (~1.5m)</li> <li>● Cooling Fan and Case to Enclose it</li> <li>● 128GB NVMe Solid State Drive</li> <li>● Jumper cap</li> <li>● Compatible HDMI to HDMI cable</li> <li>● and Jetson Orin Nano Super module case</li> </ul>						

**Annex-B****Necessary to Fill Completely****Fill in following essential Parameters: -**

1.	Validity of Offer	Days (Should not be less than <b>90 days</b> )	
2.	Delivery period	Days (After placement of order)	
3.	Country of Origin		
4.	Warranty Period		

**General: -**

1.	GST Number	Enclose Copy
2.	NTN / CNIC	if exempted, provide valid exemption certificate

**Payment Terms (In continuation of Tender Document clause 12): -**

<b>In FOR Cases</b>
<b>20%</b> advance payment against CDR/Pay Order/DD
Remaining <b>80%</b> payment after delivery, installation / commissioning /user satisfaction certificate

**Details of Foreign Principal Information with account details: -**

1. Name / Title: \_\_\_\_\_
2. Address: \_\_\_\_\_

OEM Brand Name:	Firm Name:	<b>Signature:</b>
OEM Focal Person Name:	Firm Focal Person:	<b>Official :</b>
OEM Phone Number for verification:	Firm Phone Number:	<b>Name &amp; CNIC:</b>
OEM Email Id for verification:	Firm Email Id:	<b>Designation:</b>

**Annex C****FINANCIAL OFFER**

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
1	Weather Station with Direct-to-Wi-Fi Display with Lightning Detection and Solar Power Pack with Soil Temperature Humidity Moisture Conductivity EC PH Sensor integrated for Agricultural Use	<ul style="list-style-type: none"> <li>● <b>Get Weather Alerts Anywhere:</b> Simplify the experience with a direct Wi-Fi signal to allow for remote monitoring – no hub needed</li> <li>● <b>Connectivity to Weather Underground:</b> Connects to WUnderground where data points can be shared with 250,000+ personal weather stations across the globe</li> <li>● <b>HD Display with Battery Backup:</b> Allows clear readability from any angle, plus saves data in case of a power outage; named Best Weather Station Display for 2023 by The Spruce</li> <li>● <b>Connected Weather Forecast:</b> Provides a hyper-accurate 12-24 hour forecast for your precise location</li> <li>● <b>Lightning Detection:</b> Be prepared for potential thunderstorm activity with lightning strikes detected up to 25 miles away</li> <li>● <b>Real-Time Weather Conditions:</b> Indoor and outdoor temperature, humidity, wind speed, direction, UV, pressure trends, and rain totals</li> <li>● <b>Eliminate Battery Changes:</b> Replaces the need for AA batteries in your AcuRite Iris or AcuRite Atlas weather sensors</li> </ul> <p><b><u>Included in this Bundle</u></b></p> <ul style="list-style-type: none"> <li>● Direct-to-Wi-Fi Display</li> <li>● Lightning Detection Sensor</li> <li>● Weather Sensor</li> <li>● Solar Power Pack for AcuRite Iris and AcuRite Atlas Weather Stations</li> </ul> <p><b><u>Outdoor Sensor</u></b></p> <ul style="list-style-type: none"> <li>● Measures temperature, humidity, wind speed, wind direction, rainfall, and UV index</li> <li>● Modular design allows for upgradability and expandability</li> <li>● Three solar panels maximize sun exposure to power an internal aspirating fan, allowing for accuracy within 1°F</li> <li>● Faster updates: Transmits data every 10 seconds</li> <li>● Strong wireless range up to 330 feet (100 meters)</li> <li>● Easy setup: includes bracket for wall/post mounting and features an integrated tightening knob for pole mounting</li> <li>● Compatible with My AcuRite for remote monitoring</li> </ul> <p><b><u>Direct-to-Wi-Fi Display Features:</u></b></p>	European	Nos	01		

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Direct-to-Wi-Fi sends weather information directly to My AcuRite or Weather Underground using Rapid Fire through your internet connection</li> <li>● Large font display is easy-to-read from almost any angle</li> <li>● Time and date readout</li> <li>● Auto-dimming brightness setting</li> <li>● Backup battery options (batteries not included)</li> <li>● Shows historical weather information, including enhanced rainfall history</li> <li>● Includes a connected 12-24-hour future forecasts</li> <li>● Displays comprehensive weather information including indoor/outdoor temperature with trend arrow, heat index, dew point, indoor/outdoor humidity, barometric pressure with trend arrow, wind speed/direction &amp; max wind readout</li> </ul> <p><b><u>Lightning Detector</u></b></p> <ul style="list-style-type: none"> <li>● Adds lightning detection to your AcuRite Atlas</li> <li>● Allows for early warning of lightning-producing storms</li> <li>● Detects lightning strikes within 25 miles (40 kilometers)</li> <li>● Enables lightning strike counter and estimated distance to latest strike</li> <li>● Easy setup - plugs directly into the battery compartment of your AcuRite Atlas</li> </ul> <p><b><u>Solar Power Pack</u></b></p> <p>The AcuRite Solar Power Pack replaces the need for AA batteries in the AcuRite Atlas or AcuRite Iris weather sensors (sold separately).</p> <p>Includes: Solar Power Pack, mounting hardware, instruction manual</p> <p><b>Includes:</b> Atlas Direct-to-Wi-Fi Display with power adapter, Atlas Outdoor Sensor, lightning detector, Solar Power Pack, zip ties, mounting hardware, instruction manuals</p> <p><b><u>Specifications</u></b></p> <ul style="list-style-type: none"> <li>● Indoor Temperature Range 32 to 122° F 0 to 50° C</li> <li>● Power 5V power adapter (included), 3 AAA alkaline batteries (for backup ONLY not included)</li> <li>● Dimensions Display (with antenna): 9.8" Height x 6.8" Width x 0.75" Depth</li> <li>● Indoor Humidity Range: 1% to 99% RH</li> <li>● Wind Direction Indicators: 360 Degrees</li> </ul>					



Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Indoor Temperature Accuracy +/- 2 Degree Fahrenheit</li> <li>● Indoor Humidity Accuracy +/- 4% below 20% and above 80% Relative Humidity +/- 2% from 20% to 80% Relative Humidity</li> <li><b><u>AcuRite Atlas Lightning Detection Sensor</u></b> <ul style="list-style-type: none"> <li>● Lightning Detection Range 1 to 25 miles (1.6 - 40 kilometers)</li> </ul> </li> <li><b><u>AcuRite Atlas Weather Sensor</u></b> <ul style="list-style-type: none"> <li>● Temperature Accuracy: +/- 1° F</li> <li>● Data Reporting Temperature: 30 seconds Humidity: 30 seconds Wind Speed: 10 seconds Wind Direction: 30 seconds Rainfall: 30 seconds UV Index: 30 seconds Light Intensity: 30 seconds</li> <li>● Power 4 AA alkaline or lithium* batteries *Lithium batteries recommended for temperatures below -4 degrees Fahrenheit / -20 degrees Celsius</li> <li>● Temperature Range -40 to 158° F -40 to 70° C</li> <li>● Humidity Range 1% - 99% RH</li> <li>● Humidity Accuracy +/- 2% from 0-90% and +/- 3% above 90%</li> <li>● Wind Speed 0 - 160 mph; 0 - 257 km/h</li> <li>● Wireless Range 330 feet (100 meters) depending on home construction materials</li> <li>● Wireless Signal: 433 MHz</li> </ul> </li> </ul>					

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Wind Direction: 360° Wind Direction Accuracy: +/- 3°</li> <li>● Rain: .01" intervals (0.25 mm)</li> <li>● Rain Accuracy: +/- 5%</li> <li>● UV Index: 0 - 15 index</li> <li>● UV Accuracy: +/- 1</li> <li>● Light Intensity to 120,000 Lumens</li> <li>● My AcuRite Compatible: Yes</li> </ul> <p><b><u>Solar Power Pack for AcuRite Iris and AcuRite Atlas Weather Stations</u></b></p> <ul style="list-style-type: none"> <li>● Power 1 x 18650 3.7v rechargeable lithium battery (included)</li> <li>● Dimensions: 10" Height x 9" Width x 2.5" Depth</li> <li>● Cord Length: 30 feet (9.1m)</li> <li>● Operating Outdoor Temperature Range -40°F to 158°F (-40°C to 70°C)</li> <li>● Solar Charging Temperature Range -4°F to 158°F (-20°C to 70°C)</li> </ul> <p><b><u>Weather Station should be integrated with Soil sensor which should be able to measure, transmit and store data mentioned below</u></b></p> <p><b>Measuring Soil parameters</b> Measure items /Parameters</p> <p><b>Temperature</b> Measuring range: -40°C-80°C Accuracy: ±5°C (25°C) Long-term stability: ≤0.1%/°C/y Response time: ≤15s</p> <p><b>Humidity</b> Measuring range: 0-100%RH Accuracy: 2% within 0-50%, 3% within 50-100% Long-term stability: ≤1%RH/y Response time: ≤4s</p> <p><b>Conductivity (EC)</b> Measuring range: 0-20000us/cm</p>					

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		Accuracy: $\pm 3\%$ (0-10000 us/cm); $\pm 5\%$ (10000-20000 us/cm) Long-term stability: $\leq 1\%$ uS/cm Response time: $\leq 1$ s <b>PH</b> Measuring range: 3-9 PH Accuracy: $\pm 0.3$ PH Long-term stability: $\leq 5\%$ /year Response time: $\leq 10$ S <b>Nitrogen</b> <b>Phosphorus</b> <b>Potassium</b> Measuring range: 1-1999 mg/kg(mg/L) Resolution : 1 mg/kg(mg/L) Response time: $< 1$ S <u><b>Important</b></u>  <b>Weather Station should come with a compatible mounting Tripod and relevant mounting screws.</b>					
<b>LOT B</b>							
2.	PC Workstation with Accessories	Ryzen 7 9700X 3.8 GHz 8-Core Processor MSI X670E Gaming Plus WIFI motherboard with Dual GPU support <ul style="list-style-type: none"> <li>● Model Name X670E GAMING PLUS WIFI</li> <li>● CPU Support Supports AMD Ryzen™ 9000 / 8000 / 7000 Series Desktop</li> <li>● Processors</li> <li>● CPU Socket AM5</li> <li>● Chipset AMD X670 Chipset</li> <li>● Expansion Slots 1x PCIe 5.0 x16 slot, 1x PCIe 4.0 x16 slot, 1x PCIe 3.0 x16 slot, 1x PCIe 3.0 x1 slot</li> <li>● Display Interface Support 4K@60Hz as specified in HDMI™ 2.1,</li> <li>● DisplayPort 1.4 - Requires Processor Graphics</li> <li>● Memory Support 4 DIMMs, Dual Channel DDR5</li> <li>● Storage 1x M.2 Gen5 x4 128Gbps slot</li> <li>● 3x M.2 Gen4 x4 64Gbps slots</li> <li>● 4x SATA 6Gb/s ports</li> </ul>	American /European /Asian	Nos	1		

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● USB ports 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C)</li> <li>● 4x USB 3.2 Gen 2 10Gbps (1 Type-C + 3 Type-A)</li> <li>● 8x USB 3.2 Gen 1 5Gbps (8 Type-A)</li> <li>● 8x USB 2.0 (8 Type-A)</li> <li>● LAN RTL8125BG 2.5Gbps LAN</li> <li>● WiFi / BT AMD® Wi-Fi 6E, Bluetooth 5.3</li> <li>● Audio 8-Channel (7.1) HD Audio with Audio Boost</li> </ul> <p>Compatible CPU cooler Kingston NV3 1TB M.2 2280 PCIe 4.0 NVMe SSD SNV3S/1000G, 6000MB/s Gen 4x4 NVMe PCIe performance with speeds up to 6000MB/s.</p> <ul style="list-style-type: none"> <li>● M.2 2280</li> <li>● PCIe 4.0 x4 NVMe</li> <li>● 1TB - 6,000/4,000MB/s</li> <li>● 3D NAND</li> </ul> <p>Seagate 6TB Barracuda SATA 6Gb/s 256MB Cache 3.5-Inch Internal Hard Drive SPECS:</p> <ul style="list-style-type: none"> <li>● Capacity 2000 GB</li> <li>● Edition BarraCuda</li> <li>● Form Factor 3.5"</li> <li>● SSHD No</li> <li>● Flash Memory Size N/A</li> <li>● Flash Memory Type N/A</li> <li>● Height 20.17 mm</li> <li>● Rotation Speed 5400 rpm</li> <li>● Sector Size</li> <li>● Cache 256MB</li> <li>● Access Time N/A</li> <li>● Host to/from Drive Sustained Transfer Rate 190 MB/s</li> <li>● Interface SATA 3.0 (6Gb/s)</li> <li>● Load/Unload Cycles 300,000</li> <li>● Annualised Workload Rating 55 TB/yr</li> <li>● Non-Recoverable Read Errors per Bits Read &lt;1 in 10<sup>14</sup></li> <li>● Max. Operating Shock</li> <li>● NCQ No</li> </ul>					

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Max.Power Usage 5 W</li> <li>● Dimensions 101.6 x 20.17 x 146.99 (WxHxD mm)</li> </ul> 64 GB Ram (2 X 32 GB) Transcend DDR5 4800MHz C40 UDIMM Desktop Memory - JM4800ALE-32G <ul style="list-style-type: none"> <li>● Unbuffered Long-DIMM</li> <li>● 4800MHz Memory Speed</li> <li>● 32GB DRAM Module</li> <li>● CAS Latency: CL40</li> </ul> Memory Capacity: 32GB Brand: Transcend GeForce RTX 5070 Ti 16 GB GDDR7 Memory Bandwidth 896 GB/Sec OR GeForce RTX 4070 Ti SUPER SOLID 16GB GDDR6X Video Graphics Card  PC Case must have 4 installed fans, able to accommodate above accessories and at least 2 GPUs.  850 Watts PSU with 80+ Gold Rating fully modular that can work with ZOTAC GAMING GeForce RTX 4070 Ti SUPER  M24fw 23.8" 16:9 Free Sync IPS Monitor <ul style="list-style-type: none"> <li>● 23.8" In-Plane Switching (IPS) Display</li> <li>● 1 x HDMI 1.4   1 x VGA</li> <li>● 1920 x 1080 @ 75 Hz Native Resolution</li> <li>● 1000:1 Static Contrast Ratio</li> <li>● 300 cd/m<sup>2</sup> Brightness</li> <li>● 178 x 178° Viewing Angles</li> <li>● 5 ms Response Time (GtG with Overdrive)</li> <li>● Supports 16.7 Million Colors (6-Bit+FRC)</li> <li>● 99% sRGB Color Gamut Coverage</li> <li>● AMD FreeSync Support</li> </ul> Wired Keyboard and Mouse Must have windows installed and Include relevant screws and cables.					
3	Seagate 6TB Barracuda SATA	SPECS: <ul style="list-style-type: none"> <li>● Capacity 2000 GB</li> <li>● Edition BarraCuda</li> <li>● Form Factor 3.5"</li> </ul>	American		01		

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
	6Gb/s 256MB Cache 3.5-Inch Internal Hard Drive  6TB SATA HardDisk	<ul style="list-style-type: none"> <li>● SSHD No</li> <li>● Flash Memory Size N/A</li> <li>● Flash Memory Type N/A</li> <li>● Height 20.17 mm</li> <li>● Rotation Speed 5400 rpm</li> <li>● Sector Size</li> <li>● Cache 256MB</li> <li>● Access Time N/A</li> <li>● Host to/from Drive Sustained Transfer Rate 190 MB/s</li> <li>● Interface SATA 3.0 (6Gb/s)</li> <li>● Load/Unload Cycles 300,000</li> <li>● Annualised Workload Rating 55 TB/yr</li> <li>● Non-Recoverable Read Errors per Bits Read &lt;1 in 10<sup>14</sup></li> <li>● Max. Operating Shock</li> <li>● NCQ No</li> <li>● Max.Power Usage 5 W</li> <li>● Dimensions 101.6 x 20.17 x 146.99 (WxHxD mm)</li> </ul> Must include SATA cable and screws for mounting.					
4	Transcend DDR5 32GB 4800MHz C40 UDIMM Desktop Memory - JM4800ALE-32G	<ul style="list-style-type: none"> <li>● Unbuffered Long-DIMM</li> <li>● 4800MHz Memory Speed</li> <li>● 32GB DRAM Module</li> <li>● CAS Latency: CL40</li> </ul> Memory Capacity: 32GB Brand: Transcend	Asian	Nos	01		
5	Laptop   Intel® Core™ i7/i5-13/14th Gen, 16GB DDR4/5 (8GB x 2), 512GB M.2 PCIe NVMe SSD	<ul style="list-style-type: none"> <li>● Intel® Core™ i7/i5- 13/14th Gen</li> <li>● 16GB DDR4/5 (8GB x 2)</li> <li>● 512GB M.2 PCIe NVMe SSD</li> <li>● Intel Iris Xe Graphics</li> <li>● with windows installed</li> </ul>	American	.Nos	01		
<b>LOT C</b>							

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
6	Raspberry Pi 5 8GB Ram with 27W USB-C Power Supply, Cooling Fan Active Cooler, Micro HDMI to HDMI Cable and 64GB Memory card.	<p>Raspberry Pi 5 8GB Ram</p> <ul style="list-style-type: none"> <li>● Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache</li> <li>● VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2</li> <li>● Dual 4Kp60 HDMI display output with HDR support</li> <li>● 4Kp60 HEVC decoder</li> <li>● LPDDR4X-4267 SDRAM ( 8GB SKU)</li> <li>● Dual-band 802.11ac Wi-Fi</li> <li>● Bluetooth 5.0 / Bluetooth Low Energy (BLE)</li> <li>● microSD card slot, with support for high-speed SDR104 mode</li> <li>● 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation</li> <li>● 2 × USB 2.0 ports</li> <li>● Gigabit Ethernet, with PoE+ support (requires separate PoE+ HAT)</li> <li>● 2 × 4-lane MIPI camera/display transceivers</li> <li>● PCIe 2.0 x1 interface for fast peripherals (requires separate M.2 HAT or other adapter)</li> <li>● 5V/5A DC power via USB-C, with Power Delivery support</li> <li>● Raspberry Pi standard 40-pin header</li> <li>● Real-time clock (RTC), powered from external battery</li> </ul> <p>Raspberry Pi 27W USB-C Power Supply</p> <p>Input: 100-240Vac</p> <p>Output: 5.1V, 5A; 9V, 3A; 12V, 2.25A; 15V, 1.8A (Power Delivery)</p> <p>Connector: USB-C</p> <p>Cable: 1.2m 17AWG, white or black</p> <p>Cooling Fan Active Cooler</p> <ul style="list-style-type: none"> <li>● The cooling fan is dedicated to compatible for Raspberry Pi 5, perfect for the CPU.</li> <li>● Adjustable fan, active fan cooling mode, faster heat dissipation.</li> <li>● Aluminum alloy shell radiator, faster heat dissipation.</li> </ul>	European	Nos	01		

Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Simple Installation: The DC 5V fan runs smoothly and quietly, which is conducive to heat dissipation. It can be easily assembled with screws.</li> <li>● Low Noise: The blower, also chosen for low noise and extended operating life, pushes the air against the finned aluminum heat sink.</li> </ul> <p>Along with Micro HDMI to HDMI Cable And UHS-I 64GB Memory Card</p>					
7	NVIDIA® Jetson Orin™ Nano Super 8 GB Developer Kit + Accessories	<p>Features &amp; Specs</p> <ul style="list-style-type: none"> <li>● Jetson Orin Nano 8GB Module</li> <li>● GPU: NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores and 32 Tensor cores</li> <li>● CPU: 6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3</li> <li>● Memory: 8GB 128-bit LPDDR5 68 GB/s</li> <li>● Storage: external via microSD slot external NVMe via M.2 KeyM</li> <li>● Power: 7W to 15W</li> <li>● Carrier Board</li> <li>● Camera: 2x MIPI CSI-2 22-pin Camera Connectors</li> <li>● M.2 Key M: x4 PCIe Gen 3</li> <li>● M.2 Key M: x2 PCIe Gen3</li> <li>● M.2 Key E: PCIe (x1), USB 2.0, UART, I2S, and I2C</li> <li>● USB: <ul style="list-style-type: none"> <li>○ Type A: 4x USB 3.2 Gen2</li> <li>○ Type C: 1x for UFP</li> </ul> </li> <li>● Networking: 1x Gbe Connector</li> <li>● Display: DisplayPort 1.2 (+MST)</li> <li>● microSD slot: UHS-1 cards up to SDR104 mode</li> <li>● Peripherals: <ul style="list-style-type: none"> <li>○ 40-Pin Expansion Header (UART, SPI, I2S, I2C, GPIO)</li> <li>○ 12-pin button header</li> <li>○ 4-pin fan header</li> <li>○ DC power jack</li> <li>○ Dimensions 100 mm x 79 mm x 21 mm (Height includes feet, carrier board, module, and thermal solution)</li> </ul> </li> </ul> <p>It should Include</p> <ul style="list-style-type: none"> <li>● Jetson Orin Nano Super module with microSD card slot</li> </ul>	American	Nos	1		



Sr.	Items	Description	Country of Origin	A/U	Qty	Unit Price (Inc. Tax)	Total Price (Inc. Tax)
		<ul style="list-style-type: none"> <li>● Reference carrier board (includes 802.11 plug-in WLAN &amp; BT module preinstalled with antenna)</li> <li>● 19V power supply</li> <li>● A small paper card with quick start and support information</li> <li>● USB Type A to Type-C cable</li> <li>● Ethernet cable (~1.5m)</li> <li>● Cooling Fan and Case to Enclose it</li> <li>● 128GB NVMe Solid State Drive</li> <li>● Jumper cap</li> <li>● Compatible HDMI to HDMI cable</li> <li>● and Jetson Orin Nano Super module case</li> </ul>					

Tender No \_\_\_\_\_  
 Name of the Firm \_\_\_\_\_  
 Firm Address \_\_\_\_\_  
 Date \_\_\_\_\_  
 Telephone No \_\_\_\_\_  
 E-Mail \_\_\_\_\_

To, DD SCM Office  
 NUTECH University  
 I- 2, Main IJP Road,  
 Islamabad.

Dear Sir

1. I / We hereby offer to supply to the NUTECH University the stores detailed in schedule to the tender inquiry or such portion thereof as you may specify in the acceptance of tender at the price offered against the said schedule and further agree that this offer will remain valid up to 90 days after opening of Financial offer and will not be withdrawn or altered in terms of rates quoted and the conditions already stated therein or on before this date. I / we shall be bound by a communication of acceptance to be dispatched within the prescribed time.

2. I / we have understood the instructions to Tenders and General Conditions Governing

Contract available at NUTECH website and have thoroughly examined the specifications / drawing and / or patterns quoted in the schedule here to and am/are fully aware of the nature of the stores required and my/ our offer is to supply stores strictly in accordance with the requirements.

Yours Faithfully.

(Signature of Tenderer)

Designation

Date:

Individual signing tender and / or other documents connected with a contract must be signed by principal authorized rep/ OEM rep/ Authorized partner firm rep.

**"SELLER'S WARRANTY CERTIFICATE"**

**(To be provided on stamp paper)**

Validity \_\_\_\_\_ years from the date of final acceptance of the Stores.

We hereby guarantee that we are the genuine and original Source of provisioning the Stores to our Buyer. We also undertake that nothing in the manufacturing of these Stores has been obtained through unauthorized means.

1. We hereby warrant and undertake that the Stores and all the associated spares/ accessories supplied under the terms and conditions of the above Contract, are:

- a. brand new, complete in all respects, possessing good quality and standard workmanship; and
- b. liable for replacement/rectification free of charge, if during the Warranty period the same are found defective before or under normal use or these

do not remain within the limits and tolerances stated under the specifications or in any way not in accordance with the terms of this Contract. All expenses incurred in removal, re-provisioning and reinstallation of such defective Stores or their parts shall also be borne by us.

2. The Warranty shall remain valid for a period of \_\_\_\_ years from the date of final acceptance of the Stores.

\*Sellers warranty must be provided by the Seller (firm) on Rs 100 stamp paper along with bank guarantee/CDR/Pay Order without changing a word. BG with additional clauses will be rejected.

**CHECK LIST****(This checked list must be attached with your technical offer, duly filled and Signed by authorized signatory)**

Tender No \_\_\_\_\_

Date \_\_\_\_\_

1	Tender Fee	a. Tender fee ref no b. Bank c. Amount		
2	Bid Security	a. Bid Security Ref no b. Bank		
3	Form Annex A, B and C signed by Authorized Signatory		Yes	No
4	Offering specification of items as per tender documents		Yes	No
5	Quoted Currency as per tender documents		Yes	No
6	Accounting unit/Qty as per tender documents		Yes	No
7	Delivery Schedule as per tender documents		Yes	No
8	Country of origin of store			
9	Name of OEM:- _____			
10	Original Performa invoice (Mandatory)		Yes	No
11	Certified that there is no Deviation from tender documents conditions/ there is deviation from tender documents condition as per following details.		Yes	No
12	Blacklisting certificate.		Yes	No
13	Verifiable OEM Certificate		Yes	No
14	Warranty Period as per tender documents		Yes	No
15	ATPs provided		Yes	No

Note: Fill and/or mark Yes/No where required.

Instl/Assy/Commissioning Req	Yes✓	No	Contract with OEM/Supplier	Yes✓		No	
Performance Bond Req	Yes✓	No	Offer Req for Package Deal	Yes		No ✓	
<b>Note:</b> (If any)			Warranty req and duration 1 Year	Yes✓		No	
List of "Additional Req may be" sent to procurement office, immediately							
Maint Spare Req	Yes✓	No	Essentially Running spare req	Yes✓		No	
Pub/Lit Req	Yes✓	No	Req of Cert for test data results	Yes		No✓	
Trg Req	Local ✓	Foreign	Req of Calibration	Yes		No✓	
<b>Note:</b> Tick relevant box							

<b><u>Special Instructions(Applicable to all Items)</u></b>						
<b>Description</b>	<b>Bidder</b>			<b>Tech Scrutiny to be done by User</b>		
	<b>Yes</b>	<b>No</b>	<b>Alternate Offer</b>	<b>Accepted</b>	<b>Rejected</b>	<b>Reasons of Rejection</b>
<b>Commissioning</b>  a) Commissioning of the equipment will be carried out by OEM rep at his own cost and risk at designated place at NUTECH.  b) Any special requirement for installation, operation and commissioning must be specified in the offer by the supplier.						
<b>Warranty period</b> 1 Year from the date of commissioning.						
<b>Physical Inspection Criteria</b>  100% Physical inspection of store will be carried out before commissioning of the equipment for following details:  a) For physical damage, scratches and deformity.  b) Accessories/Components as per contractual Specifications  c) Technical manuals (Operation manual, user guide).  d) OEM certificate and verifiable documents by the supplier that store has been procured from the certified source and is factory new and from latest production.  e) Brand name and country of origin.						

<p><b>Spares / Technical Support</b></p> <p>a) Supplier to have in-country spares / technical support and ensure spares and technical support / assistance during warranty period (<b>support should be provided within 3 to 5 days of reporting of an issue</b>).</p> <p>b) Comprehensive list of spares required for scheduled maintenance of equipment is to be provided.</p> <p>c) Any software provided must have its license.</p> <p>d) Supplier must also provide calibration service during warranty period.</p> <p>e) Supplier should visit the facility before installation.</p>					
<p><b>Additional Spare / Replaceable parts.</b></p> <p>a) Replaceable spare / parts during scheduled inspections are to be identified and provided as per requirement along with equipment sufficient to cater two years consumption after commissioning.</p> <p>b) All specialized / standard tools required for inspection / repair / servicing must be supplied along with equipment.</p>					
<p><b>Improvement and Safety Measures:</b> Any improvement and safety measures suggested by NUTECH during commissioning are to be resolved by the supplier / manufacturer at no extra cost.</p>					

<p><b>Liability of Supplier</b></p> <p>a) OEM certificate of authorized dealership Supplier is to provide original OEM certificate of subject equipment bought directly from the manufacturer and being an authorized dealer.</p> <p>b) In case the equipment supplied is not compatible with specifications, the supplier will be obliged to call his representatives at his own cost for consultation and corrective action.</p>					
<p><b>Special Notes</b></p> <p>a) Additional requirements for the maintenance of equipment (if any) must be intimated by the supplier in technical offer.</p> <p>b) Suppliers must provide the list of organizations using the same equipment in Pakistan (if any).</p> <p>c) Equipment must be a standard product of OEM available at web Address of OEM.</p> <p>d) In case of premature failure of the equipment, the OEM has to replace / rectify the item free of cost. Required transportation charges would be borne by the supplier.</p> <p>e) In technical proposal, all items must have the brand names, model number, manufacturer name, country of origin, manufacturer's warranty including parts with complete specs and brochures. Reconditioned and refurbished equipment shall not be acceptable.</p> <p>f) Supplier must arrange NOCs (if required) for the drone (import) during procurement.</p>					



Firm Name\_\_\_\_\_

Signature\_\_\_\_\_

Name\_\_\_\_\_

Designation\_\_\_\_\_