



## **TENDER DOCUMENTS**

### **PROCUREMENT OF IT EQUIPMENT FOR DATA CENTRE - NUTECH**

#### **NUTECH/SCM/ IT Equipment For Data Centre -2019/TD-043**

# NATIONAL UNIVERSITY OF TECHNOLOGY

## TENDER NOTICE

National University of Technology (NUTECH)

NUTECH/SCM/ IT Equipment for Data Centre - 2019/TD-043

Sealed bids are invited from Government / FBR Registered Firms for the procurement of IT Equipment for Data Centre NUTECH.

1. Tender documents containing terms & conditions and detailed specifications of items can be downloaded from NUTECH website "<https://nutech.edu.pk/d-p.php>" w.e f **22 Feb 2019**.
2. Quotations shall be submitted as per requirement of the tender documents.
3. Bidders will be required to submit bank draft/PO equal to 5% of quoted value as Bid Bond in favor of National University of Technology (NUTECH).
4. Sealed bids with detailed specification should reach on the following address latest by **1200 hours on 19 March 2019**. Late submission will not be entertained.
5. Bids will be opened at **1230 hours on 19 March 2019 at SCM Office**.
6. Project is to be completed in 60 days from the date of award of contract.
7. Submit Rs 1500/- as Tender fee in favour of NUTECH HBL account: **NUTECH Tendering and contracts, 5037- 000210755**. Please attach bank receipt with technical offer. Offers will not be entertained without payment of processing fee.

**Deputy Director (Supply Chain Management Office)**  
**NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH) UPROAD,SECI-12,**  
**ISLAMABAD**  
**Tel: 0092-51-5476768, Ext :178**



## NATIONAL UNIVERSITY OF TECHNOLOGY

### SUPPLY CHAIN MANAGEMENT OFFICE

#### INVITATION TO TENDER

**Submission Date/Time 19 Mar 2019** at 1200 hours

1. NUTECH desires to procure the list of item(s)/Store(s) as per **Annexure-A**. Interested bidders are requested to send their bids through courier or deliver at NUTECH under two separate sealed envelopes (placed together in third envelope), marked clearly, "**Technical Offer**" and "**Commercial Offer**", respectively to the undersigned, latest by or before above mentioned due date. If due to any unforeseen circumstances, NUTECH establishment remains closed, then the last date of submission will be extended to next working day.

2. Please also note that Technical Offer should contain only Annexes-A & B duly filled in (supported with relevant technical literature /details/ catalogues etc) and receipt of tender processing fee. Commercial Offer will contain Annexure-C and bid bond (Dully mentioned and placed in separate envelop). Please ensure no space is left blank in the annexes.

3. Following must be noted for this IT (Invitation to Tender):-

- a. 2 x copies of technical offer are to be provided.
- b. Annexes A, B and C must be signed and stamped. Attach only relevant documents.
- c. Please complete all document as per given format. Do not use your format or letter head. Offer may be rejected if given format is not followed.
- d. Validity of offer will be 90 days.
- e. Delivery period will be 60 days from the date of award of contract.
- f. The firm should provide point to point acceptance of each clause of IT and special instructions attached with IT.
- g. Quote firm will render a certificate with technical offer that firm is neither defaulter nor blacklisted by any Government / Semi Government organization directly or indirectly.
- h. Tender(s) must be accompanied with a Bid Bond in agreement of faithful compliance of the conditions of Contract/Purchase Order. This amount will be equivalent to 5% of the total quoted value. In case of non-acceptance of any offer, the Bid Bond will be returned to the bidder by fastest possible means. The Bid Bond amount submitted by the successful bidder

will however be refunded on effective termination of Contract/ Purchase Order. (The Bid Bond will be forfeited in case of default by the bidder from his commitments made through his offer). Submission of Bid Bond is mandatory; otherwise your offer will be rejected.

- i. 2 years warranty against 5% bank guarantee will be required from the successful bidders from the date of commissioning.
- j. Rates should be quoted on Free Delivery basis at NUTECH Islamabad.

4. We reserve the rights to accept or reject any or all tenders as a whole or in part without assigning any reason whatsoever. The decision in this regard will be firm, final and binding on all bidders.

DD (Supply Chain Management)



**NATIONAL UNIVERSITY OF TECHNOLOGY**

**SUPPLY CHAIN MANAGEMENT OFFICE**

**TECHNICAL OFFER**

**Annex A**

User Reference No **NUTECH/SCM/ IT Equipment for Data Centre - 2019/TD-043**

Date: **12-02-2019**

**Technical Specification**

Ser	Items	Description	Country of Origin	A/U	Qty Req	Bidder Compliance		Tech Scrutiny to be done by user	
						Yes	No	Accepted	Rejected
						Reason of rejection			
1	<b>Server</b>	<ul style="list-style-type: none"> <li>• 2U dual Socket Rack Mounted Server</li> <li>• 2x Intel Xeon Gold 5118 12 Core 2.30 GHz processors</li> <li>• 256GB Dual Rank x4 DDR4-2666 Registered ECC with up to 3TB support</li> <li>• Internal Storage 4 x 600 GB SAS 12 G Enterprise 15k Hard Drives</li> <li>• RAID Controller 8 Ports with 2GB Cache 12G SAS</li> <li>• 1Gb 4-port on-board Network Adapter and 10Gb 2-port Adapter for iSCSI Connectivity</li> <li>• 2 x Single Port 16GB Fiber Channel Host Bus Adapter</li> <li>• 800W Redundant hot-plug Power Supply with 3x2 Pair Redundant Fans</li> <li>• Dedicated management gigabit LAN port for Remote Management</li> <li>• Hardware and Software Suite including tools for installation and deployment, permanent status monitoring and control</li> </ul> <p>Free BIOS, firmware, latest operating system and software upgrades support</p>	European	No's	10				

2	<b>Storage</b>	<ul style="list-style-type: none"> <li>• Unified Storage System with Redundant Controllers and 16 GB Cache per array</li> <li>• 4x Host Ports Per Controller, 16Gbps Fiber Channel and iSCSI</li> <li>• 100TB Raw space (30% using 12G SAS 10K Enterprise Hard Drives and 70% using NL-SAS 7.2K Hard Drives) with up to minimum 1500TB RAW space</li> <li>• Featuring Thin provisioning, Snapshots and Local copy</li> <li>• Cache Protection, Data Block Guard, Dedicated and Global Hot Spare Functions, Disk Drive Patrol and Fast Recovery</li> <li>• Automated Storage Tiering, Fast Recovery, Dedicated Hot Spare, Global Hot Spare, Redundancy, Hot part Replacement</li> <li>• RAID migration, LUN online expansion w/o interruption, Reporting function, Hot part expansion</li> <li>• Synchronous and asynchronous Replication Support</li> <li>• Redundant Power Supplies and Fans</li> <li>• Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T) SNMP (version1, 2C, 3), SMI-S 1.6 for Management with Event notification (E-mail / SNMP / SYSLOG) and support for Remote maintenance</li> </ul> <p>Redundant FC Switch 24-Port with 16x 16Gbps active ports, including transceivers and host connect cables supporting Full Fabric, WEB Tools, Advanced Zoning, Element Manager, Adaptive Networking, Server Application Optimization, Enhanced Group Management and Access Gateway</p>	European	No's	01			
3	<b>42U Rack</b>	<p>42U 1200x800mm Branded Server Rack (same as server &amp; storage) with Redundant PDUs  18.5 Inch 1U Rack mountable LCD Console  16-Port KVM Switch including adapters and connection hardware</p>	European	No's	04			

4	<b>IMS (IT Management Software with Configuration &amp; Performance Monitoring Tools)</b>	For IT Operations Management having backend support of:- <ul style="list-style-type: none"> <li>• Application software</li> <li>• Database Management</li> <li>• Servers &amp; Operating Systems</li> <li>• Network Storage &amp; Backup</li> </ul>		No's	01			
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## Special Instructions IT Equipment for Data Centre

Description	Bidder			Tech Scrutiny to be done by User		
	Yes	No	Alternate Offer	Accepted	Rejected	Reasons of Rejection
<p><b>Installation and Commissioning</b></p> <p>a. Commissioning of the equipment (Software &amp; Hardware) will be carried out by OEM rep at his own cost and risk at designated place at NUTECH.</p> <p>b. Any Special requirement must be specified in the offer by the supplier.</p>						
<p><b>Standard &amp; Compliance.</b> Bidder must submit specification compliance in their bids, non-compliance (if any) against the product specification and general terms &amp; conditions of the tender will lead to the disqualification of the bidder.</p>						
<p><b>Support Services</b></p> <p>a. 24x7x365 Support Services including public holidays with response time of 4 hours</p> <p>b. Suppliers to have in-country spares/Technical support and ensure spares and technical support/Assistance for next 3 years.</p> <p>c. Service Lifecycle 5 years after end of product life</p>						
<p><b>Warranty Period</b></p> <p>a. 3 Years Comprehensive warranty for all items.</p> <p>b. A Warranty sticker is to be pasted on each item by the supplier/ OEM highlighting name of Firm, Contract No and Date, Description of Store and warranty validity.</p>						
<p><b>Training Notes.</b></p> <p>a. Supplier will provide a set of handouts for training on operation and maintenance of the equipment</p> <p>b. Seller will fully train the IT Team of NUTECH on the equipment for operations and maintenance</p>						
<p><b>Physical Inspection Criteria</b></p> <ul style="list-style-type: none"> <li>• 100% Physical inspection of store will be carried out before commissioning of the equipment for following details               <ol style="list-style-type: none"> <li>a. For physical damage, scratches and deformity.</li> <li>b. Accessories/ Components as per contractual Specifications</li> <li>c. Technical manuals (Operation manual, user guide).</li> <li>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.</li> </ol> </li> </ul>						



e. Brand name and country origin.						
<p><b>Publications</b></p> <p>Operational/ Maintenance manual Qty 01 with Equipment and additional Qty 02 for record purpose and should consist of following sections</p> <p>a. Equipment Description/ Operation</p> <p>(1) Specifications</p> <p>(2) Description</p> <p>(3) Operation</p> <p>b. Servicing</p> <p>(1) Maintenance Schedule</p> <p>(2) Removal/ Installation procedure</p> <p>c. Trouble Shooting guide</p>						
<p><b>Improvement and Safety Measures.</b> Any improvement and safety measures suggested by NUTECH during commissioning are to be resolves 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. Supplier must provide the list of organizations using 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, OEM has to replace / rectify the item free of cost. Required transportation charges would be borne by the supplier.</p>						

<p>e. Manufacturer Authorization Form (MAF) in the name of NUTECH University by the Principal / OEM must be provided (Mandatory).</p> <p>f. <b>Contract will be awarded on Package deal basis.</b></p> <p>g. In technical proposal, all items must have brand names, model number, manufacturer's name, country of origin, manufacturer warranty including parts with complete specs and brochures. Re-conditioned and re-furbished equipment shall not be accepted.</p>						
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<p>Firm Name _____</p> <p>Signature _____</p> <p>Name _____</p> <p>Designation _____</p>
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**NATIONAL UNIVERSITY OF TECHNOLOGY**  
**SUPPLY CHAIN MANAGEMENT OFFICE**

**TECHNICAL OFFER**

**Annex B**

User Reference No **NUTECH/SCM/ IT Equipment for Data Centre - 2019/TD-043**

Date: **13-02-2019**

**Please fill in the following essential parameters:**

1. Validity of Offer: \_\_\_\_\_ Days (Should not be less than 90 days)
2. Delivery Period: \_\_\_\_\_ Days (After Placement of order)
3. Country of Origin: \_\_\_\_\_
4. Warranty/Guarantee: \_\_\_\_\_ Months from the date of final acceptance of the stores.

**General**

GST No: \_\_\_\_\_ (Please enclose copy)

NTN/CNIC: \_\_\_\_\_ (if exempted, please provide valid exemption certificate)

**Payment Terms:**

1. 50 % advance payment (Against valid bank Guarantee)
2. 50% Payment after delivery, installation /commissioning, user satisfaction certificate

**Details of Payment Recipient**

(1) Name/Title: \_\_\_\_\_

(2) Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Official Seal: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_



**NATIONAL UNIVERSITY OF TECHNOLOGY**  
**SUPPLY CHAIN MANAGEMENT OFFICE**

**FINANCIAL OFFER**

**Annex C**

User Reference No **SCM/ IT Equipment for Data Centre-2019/TD-043** Date: **13-02-2019**

Ser	Items	Description	A/U	Qty Req	Unit Price (Rs) (excluding GST)	GST(Rs )	Total Unit Price (Rs)	Total price for total qty (Rs)
1	Server	<ul style="list-style-type: none"> <li>• 2U dual Socket Rack Mounted Server</li> <li>• 2x Intel Xeon Gold 5118 12 Core 2.30 GHz processors</li> <li>• 256GB Dual Rank x4 DDR4-2666 Registered ECC with up to 3TB support</li> <li>• Internal Storage 4 x 600 GB SAS 12 G Enterprise 15k Hard Drives</li> <li>• RAID Controller 8 Ports with 2GB Cache 12G SAS</li> <li>• 1Gb 4-port on-board Network Adapter and 10Gb 2-port Adapter for iSCSI Connectivity</li> <li>• 2 x Single Port 16GB Fiber Channel Host Bus Adapter</li> <li>• 800W Redundant hot-plug Power Supply with 3x2 Pair Redundant Fans</li> <li>• Dedicated management gigabit LAN port for Remote Management</li> <li>• Hardware and Software Suite including tools for installation and deployment, permanent status monitoring and control Free BIOS, firmware, latest operating system and software upgrades support</li> </ul>	No's	10				

2	<p><b>Storage</b></p>	<ul style="list-style-type: none"> <li>• Unified Storage System with Redundant Controllers and 16 GB Cache per array</li> <li>• 4x Host Ports Per Controller, 16Gbps Fiber Channel and iSCSI</li> <li>• 100TB Raw space (30% using 12G SAS 10K Enterprise Hard Drives and 70% using NL-SAS 7.2K Hard Drives) with up to minimum 1500TB RAW space</li> <li>• Featuring Thin provisioning, Snapshots and Local copy</li> <li>• Cache Protection, Data Block Guard, Dedicated and Global Hot Spare Functions, Disk Drive Patrol and Fast Recovery</li> <li>• Automated Storage Tiering, Fast Recovery, Dedicated Hot Spare, Global Hot Spare, Redundancy, Hot part Replacement</li> <li>• RAID migration, LUN online expansion w/o interruption, Reporting function, Hot part expansion</li> <li>• Synchronous and asynchronous Replication Support</li> <li>• Redundant Power Supplies and Fans</li> <li>• Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T) SNMP (version1, 2C, 3), SMI-S 1.6 for Management with Event notification (E-mail / SNMP / SYSLOG) and support for Remote maintenance</li> </ul> <p>Redundant FC Switch 24-Port with 16x 16Gbps active ports, including transceivers and host connect cables supporting Full Fabric, WEB Tools, Advanced Zoning, Element Manager, Adaptive Networking, Server Application Optimization, Enhanced Group Management and Access Gateway</p>	No's	01				
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3	<b>42U Rack</b>	42U 1200x800mm Branded Server Rack (same as server & storage) with Redundant PDUs 18.5 Inch 1U Rack mountable LCD Console 16-Port KVM Switch including adapters and connection hardware	No's	04				
4	<b>IMS (IT Management Software with Configuration &amp; Performance Monitoring Tools)</b>	For IT Operations Management having backend support of:- <ul style="list-style-type: none"> <li>• Application software</li> <li>• Database Management</li> <li>• Servers &amp; Operating Systems</li> <li>• Network Storage &amp; Backup</li> </ul>	No's	01				
				<b>Total</b>				

Bid Bond Ref \_\_\_\_\_

Total Gross Value \_\_\_\_\_

\*Custom duty is to be quoted separately.

\*\*Bid Bond to be attached with Annex C. Copy of Bid Bond be attached with

Technical offer without showing its value. Exposure of bid bond in tech bid may result in rejection of offer.

Firm Name _____ Signature _____ Name _____ Designation _____
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