RFQ DOCUMENT (Addendum) FAST National University of Computer and Emerging Sciences, Islamabad Campus PROVISION OF IT INFRASTRUCTURE FOR D- BLOCK, FAST - NUCES H-11/4 ISLAMABAD

Ref: 01-1224/IT/DBLK-P01

RFQ DOCUMENT

FAST National University of Computer and Emerging Sciences, Islamabad Campus PROVISION OF IT INFRASTRUCTURE FOR D- BLOCK FAST - NUCES H-11/4 ISLAMABAD

- 1. Bids are invited from reliable firms having NTN & Sales Tax registration for **PROVISION OF IT INFRASTRUCTURE (ACTIVE & PASSIVE) FOR D- BLOCK), FAST NUCES H-11/4 ISLAMABAD** as per detail available at **Annex-A**.
- 2. **Submission of Quotation**. Single Stage-Two Envelop procedure. Bids are submitted in person.
- 3. **Eligibility Criteria:** To be eligible, the bidder must be:
 - a. Registered with FBR for sales tax as well as income tax.
 - b. Be active on taxpayer list
 - c. Never Blacklisted. Affidavit on stamp paper.
 - d. Not under any litigation. Affidavit on stamp paper.
 - e. Bids must be submitted **in person**, and the individual submitting the bid must present a valid **bidder ID**.

4. Bids and Attachments to be provided by Firms:

- a. Bids prices item wise duly totaled up in local currency- PKR, All inclusive.
- b. **Comparison/Selection of Bids:** FAST-NUCES H-11/4 Islamabad will have the option to make selection Technical Solution item wise or Lot wise, otherwise and cancel bids without any liability.
- c. Bid should be **valid** for at least **30 days** after the opening date.
- d. Please Submit: Bidder to ensure submission of documents as per details provided in Annex-B.
- e. Bids may be submitted by a nominated representative of the firm.
- f. Multiple firms operating under common owner/administration will submit only **one bid out** of any one of its registered/legal entities.
- g. Last 3 x month utility bills, duly paid, of the office accommodation of the company/firm in Islamabad/Rawalpindi.

5. Instructions for Firms (Be Noted Carefully):

- a. Incomplete bid in any aspect will be rejected.
- b. Bid(s) shall be rejected if the rate(s) are unclear, incomplete, ambiguous, conditional or not totaled.
- c. **Penalty for delays**: 1% of total value of the Purchase Order / per week.
- d. **Performance Guarantee for Warranty Period**. Selected firm(s) shall provide **5% PG** of the PO amount.
- e. Right to purchase at Risk-and-Expense of Firm/s, if the selected Firm/s: (i) fails to complete the order, or (ii) delays to supply within the delivery time quoted or extended time given by Purchaser, or (iii) supplies sub-standard items, or (iv) supplies low quality items, then FAST-NUCES reserves the right to (v) purchase single, all or un-supplied quantity of item(s), by the suppliers at <u>Risk-and-Expense</u> therefore forfeit Warranty money and resort to administrative actions, etc.
- f. **FAST-NUCES H-11/4, Islamabad reserves the right to (i)** Increase/decrease the required quantity while placing purchase order or add related item in repeat order. (ii) reject any bid or procurement process. (iii) Amend delivery time. (iv) Make clarifications during contract period etc. any time, as per rules.
- g. Representatives of bidders are allowed to witness the opening of bids, without conferring any privilege.
- h. **Contract Agreement** shall be signed with successful bidder(s) as per FAST-NUCES policy and Provision of **Rs.100 stamp paper** shall be the provided by successful bidder which shall be delivered before issuance of Purchase Order.

- i. Late submission of bids cannot be entertained.
- j. Information regarding the subject item should not be communicated to un-authorized person(s).
- k. In case of dispute, **IT & Network Committee** FAST-NUCES H-11/4 shall be final and binding on both the parties. Firms will ensure that the "End of Sale" and "End-of-Life" (EOL) are not being quoted / provided.
- I. **Delivery Time:** Installation and commissioning time shall not be more than 8 **weeks** from the date of issuance of Purchase Order.
- m. Bid openings may be postponed due to unavoidable circumstances, including public holidays, leave, or official commitments of the President or members of the Committee. If the bid opening falls on a public holiday, it will be rescheduled to the next working day. In cases of postponement due to reasons other than public holidays, we will notify bidders through available communication channels.
- n. Selection/ evaluation of items shall be according to the Evaluation Criteria.
- o. **Payment** will be made after deduction of Income Tax and part of Sales Tax by FAST-NUCES, as per Govt rules. It is vendor's responsibility to be on Active Taxpayers list of FBR.
- p. The specifications provided in this RFQ document are the minimum requirements of FAST-NUCES. The bidders must meet or exceed these specifications to meet the actual requirements of this project. However, in such cases, additionally proposed or alternate specifications should clearly be highlighted to enable FAST-NUCES H-11/4 Islamabad to clearly ascertain the impact of modified specifications.
- q. Vendor must provide 3/5-year contract for any repair & maintenance coverage where mentioned.
- 6. **Pre-bid Clarifications/Technical Queries**: Firms are advised to email **Mr. Sheraz Khalid**, ASO (sheraz.khalid@nu.edu.pk) and for any clarification/technical queries.
- 7. Technical and Financial Quotations should be submitted in the following format:
 - a. Format for Technical Quotation

S. No	Nomenclature	Technical Specifications	Unit	Qty	Make/ Model	Origin

b. Format for Financial Quotation

S. No.	Nomenclature	Unit	Qty	Unit Price	Unit Price with GST	Total Price with GST

- 8. <u>Selection / Evaluation Criteria</u>: Comprehensive Bid Evaluation Criteria is provided in the RFQ document as **Annexure C**. Both the bids i.e. Technical and Financial carry equal marks. Final selection will be made by calculating the average marks so obtained by each bidder. Any firm scoring more than or equal to 70% aggregated marks will qualify. Contract will be awarded to the bidder offering the Most Advantageous bid.
- 9. <u>Bid Opening:</u> Bids must be submitted in person by 10:00 AM on <u>January 2</u> January 8, 2025. Submissions received after the specified time will not be accepted or considered. The bids will be opened on the same day at 11:30 AM in the presence of the bidders' representatives and the Committee Members.

Convener IT & Network Committee

<u>LOT - 01</u> <u>PROVISION OF IT INFRASTRUCTURE FOR D- BLOCK FAST - NUCES H-11/4 ISLAMABAD</u>

	Outdoor Optical Fiber Cable Laying for D Block		Conformance	Additional	Reference Page #		
						details,	
SNo	Location	Item With Specification	Unit	Qty	Yes/No	if higher	(Attach Evidence)
1		Primary Link 12x Cores Optical Fiber SM (OS2) from B Block Datacentre to D Block Server Room	Meters	500			
2		Fiber Cable 12xCore Multi Mode (OM 4 or 3)	Meters	5000			
3		HD Pipe 2 Inch diameter with 5mm thickness	Meters	400			
4		Rack mountable Fiber patch panel/OFDF, 12-SC duplex Single mode module with complete sealing after splicing	Nos	2			
5	B Block Datacentre to D Block Server Room.	Rack mountable Fiber patch panel/OFDF, 48-SC duplex Multi mode module with complete sealing after splicing	Nos	2			
6		ODF 12 Core Rack Mount Complete Pigtail, Adapter	Nos	45			
7		Optical Fiber Multi Mode Patch cord SC to SC (3 Mrt)	Nos	116			
8		Optical Fiber Single Mode Patch cord SC to SC (3 Mtr)	Nos	4			
9		PVC Duct 25x25 mm	Meters	30			
10		PVC Flexible Pipe 2" Inch	Meters	30			
11		GI Pipe 2" with all accessories	Meters	25			
12		GI Flexible 2"	Meters	30			
13		Laying Charges	Meters	5500			
14		Splicing	Nos	300			
15		Testing	Nos	300			

LOT - 02

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LAN	Estimate BOQ - D Block			Conformance	Additional details,	Reference Page #
S/N	Description	Unit	QTY	Yes/No	if higher	(Attach Evidence)
1	Cat - 7 Cable, SFTP, PVC, 4 pairs	Meter	103100			
2	RJ45 K6 Jack Tool Less with shutter, Cat 6A-SFTP	Each	2022			
3	Cat 6A- RJ45 to RJ45 Patch Cable, SFTP,1m	Each	2022			
4	Cat 6A RJ45 to RJ45 Patch Cable, SFTP, 3m	Each	2022			
5	Patch Panel, 24 ports, <u>Cat-6A</u> SFTP loaded with shutter and Tool Less IO's	Each	116			
6	Single Faceplate without Shutter	Each	2022			
7	PVC Back Box for Data Face Plate	Each	700			
8	Front Cable Manager	Each	116			
9	8-U PoE Cabinet,2-Fan, Double Section, Front Glass Door All Side Open with Power PDU (Imported)	Each	22			
10	12-U PoE 600x600 Cabinet,2-Fan, Double Section, Front Glass Door All Side Open with Power PDU (Imported)	Each	8			
11	15-U PoE Cabinet 600x600,2-Fan, Double Section, Front Glass Door All Side Open with Power PDU (Imported)	Each	8			
12	27-U PoE Cabinet 600x800,2-Fan, Double Section, Front Glass Door All Side Open with Power PDU (Imported)	Each	3			
13	42-U 800x1000 Cabinet, 2Fix Tray, 4-Fan, 4-Wheel, Front Glass Door All Side Open with Power PDU	Each	2			
14	Steel Duct 4x3 Inch with Cover Powder Coated with Fixing Material (18 SWG)	Feet	500			
15	Steel Duct 6x3 Inch with Cover Powder Coated with Fixing Material (18 SWG)	Feet	3000			
16	Steel Duct 8x3 Inch with Cover Powder Coated with Fixing Material (18 SWG)	Feet	100			
17	Steel Duct 12x3 Inch with Cover Powder Coated with Fixing Material (18 SWG)	Feet	50			
18	PVC Duct 16x38	Feet	3000			
19	PVC Duct 40x40	Feet	200			
20	PVC Duct 60x60	Feet	150			
21	SFTP Cat-7 Cable Laying, Installation of Cable Tray, Installation of PVC Duct, Installation of Assembling of all Networks Rack, Complete hanging of Material	Meter	103100			
22	Termination Face Plate End and Patch Panel End, Lebling Face Plate End & Patch Panel End	Node	2022			
23	Fluke Testing with Calibrated Fluke Meter	Node	2022			

Note: Quoted solution of LOT 1&2 should be a single brand, Sample board should be submitted with bids. (Mandatory). Payment shall be made on as per actual quantity. According to fluke test / measurement.

<u>LOT – 03</u>

	Network Active Equipment	Confor mance	Additional	Reference Page #	
Sr .N o	Details	Qty	Yes/No	details, if higher	(Attach Evidence)
1	SFP+ Compatible with OFC	80			
2	ii) 48 Ports PoE Switch x 2 iii) 24 Ports PoE Switch x 12 For ii) 24 / For i) 48 x 1/2.5 Gbps RJ45 ports, 4 x 10 GE SFP+ ports (POE+) or more, (48 port 290 Gbps, 24 ports 224 Gbps) or more, 140 Mpps or more, Single / multiple AC Power supply, POE Power Budget for 48 port 1440 / for 24 port 720 W, Memory 2GB, Flash 1 GB, 30K MAC address tables, 4K ARP entries Min, 8K IPv4 FIB and 3K IPv6 FIB Min, Number of ACL rules 2K Min, must support MAC addresses, IP Address based, protocol-based, and interfaces based VLAN assignment, Support Service interface-based stacking, Should support Ethernet Ring Protection Switching, should support Jumbo frames, should support stacking up to at least 8 devices Support MAC, local, 802.1x authentication and support other industry leading NAC solutions, Support Routing, IPv4 and IPv6, RIP, Switch must support the IEEE 802.1ad (Q-in-Q) standard, Dynamic VLAN, Dynamic ACL, STP, RSTP, MSTP or equivalent, Support ARP security, Dynamic ARP Inspection, CPU protection, Défense against ARP, ICMP, DOS attacks, The equipment must support SNMP-based NMS for unified configuration, Telnet, NETCONF, SSH, CLI, 802.1X authentication, Web page-based configuration and management and batch remote upgrade. along with relevant lifetime license. Support Traffic classification, Traffic behaviour, Traffic shaping, Congestion avoidance, Congestion Management.	14			
4	i) 48 Ports Data Switch 22 ii) 24 Ports Data Switch 04 For i) 24/ For ii) 48 x 1/2.5 Gbps RJ45 ports, 10 GE SFP+ ports x 4, Memory 2GB, Flash 1GB Min (48 port 290 Gbps, 24 ports 224 Gbps), At least 140 Mpps, 4K VLANs, MAC Address entries 30K, ARP Entries 3K, ACL Rules 2K LACP, STP, RSTP, ERPS, MSTP/PVST+, LLDP, BPDU protection, Jumbo Frames, IPv4 Static Routing, RIP, FIBv4 4k , FIBv6 1k IGMPv1/v2/v3, PIM-DM, PIM-SM, IGMP snooping Support MAC authentication and 802.1x authentication, TACACS authentication, RADIUS authentication, Support Integration with industry standard NAC Solutions, CLI and Web interface (HTTPS), Telnet, SSH v2, RMON, SNMP v1, v2, and v3 , Telemetry, and NETCONF. Along with relevant lifetime license. Support Traffic classification, Traffic behaviour, Traffic shaping, Congestion avoidance, Congestion Management.	26			

7 8	Distribution Switches 48 P 1 48 x 10G SFP+ ports for high-speed connective 4 x 40G QSFP+ uplink ports, ensuring seamless aggregate and uplink scalability. Switching capacity of 2.1 Tbps. and forwarding rate of 400 Mpps, Memory 4 GB DRAM and 2 Flash, with support for up to 340K MAC entries, 16K A entries, and robust IPv4/IPv6 routing table Advanced Layer 2 and Layer 3 protocols, including VL assignment, Q-in-Q, STP/RSTP/MSTP, OSPF, BGP, MP OSPF up to v3, ISIS and multicast routing. Security featu like MAC authentication, 802.1X, ARP security, Dynamic A Inspection, and defence against DoS attacks. Management options via SNMP, Telnet, SSH, CLI, and Web GUI, ensure easy deployment and monitoring. compatibility with alreatinstalled infrastructure along with relevant lifetime licens QSFPs Compatible with OFC (for core connectivity with HF All Quoted hardware in this Lot includes: 5- Years NBD Standard Equipment warranty from OEM, installation, configuration, and commissioning services.	ion d a GB ARP les. AN PLS, res ARP ent ing ady e.	1			
	Wireless Equipment		С	onformance	Additional	Reference Page #
Sr.N	o Details	Qty		Yes/No	details, if — higher	(Attach Evidence)
1	The access point must be enterprise-grade, supporting Wi-Fi 7 with 2.4GHz, 5GHz, and 6GHz bands, and a data rate of up to 4.8 Gbps. It should feature 2x2 MIMO on 2.4 GHz, 4x4 MIMO on 5 GHz, 2x2 MIMO 6 GHz, PoE+ (802.3at) with optional DC input, VLAN support (802.1Q), WPA2/3 security, multiple SSDs, guest traffic isolation, advanced QoS, It must operate in harsh conditions (-10°C to 50°C), include wall/ceiling mounts, consume up to 24 W, and offer a 5-year warranty. WAP should be PoE (standard power) enabled. Configuration and Installation is part of this project. Pre-bid Site survey is mandatory to ensure 100% coverage within the building. Controller is required, it should be specified, and the quotation should include both the access points and the appropriate controller with suitable lifetime licenses.	98				
2	Operating modes of full duplex, half duplex, and auto-negotiation Rates of an Ethernet interface: 1/10 Gbps, and auto negotiation, Flow control on interfaces, Jumbo frames, Link aggregation, Load balancing among links of a trunk, Interface isolation and forwarding restriction, Broadcast storm suppression. Traffic classification, Traffic behaviour, Congestion avoidance, Queue Scheduling. Local authentication/local accounts (MAC addresses and accounts), RADIUS authentication, Multiple authentication servers: Supports backup authentication servers, specifies authentication servers based on the account, configures authentication servers based on the account, Binds user accounts to SSIDs. Minimum 2 x 10G SFP+ ports,	1				

	MAC Address entries 8K. Wi-Fi Controller compatible with the Access Points lifetime controller license for up to 150 APs.		
3	All Quoted hardware in this Lot includes: 5- Years NBD Standard Equipment warranty from OEM, installation, configuration, and commissioning services.		

LOT - 04

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	<u>UPS</u>		Conformance	Additional	Reference Page #
	Details	Qty	Yes/No	details, if higher	(Attach Evidence)
1	UPS 10 KVA Minimum 30 Minutes Backup on Full Load (Computer LAB) Online Pure Sinewave The UPS must have a capacity of 10 kVA/8 kW, providing reliable power backup for computer & network infrastructure, including access and PoE switches. It should support 220/230/240V AC output, deliver a pure sine wave, and offer ±1% voltage regulation. The system must include hotswappable VRLA batteries with a backup time of 15-20 minutes at full load, extendable with additional battery packs. Efficiency should be ≥94% in normal mode and ≥98% in ECO mode. The scope includes commissioning of the UPS and connecting it to the network switches, with the vendor required to visit the site to assess connectivity needs, including cables and other accessories. The UPS must be centrally placed, ensuring power distribution to all network switches. Failure to commission according to the requirements will result in disqualification.	4			
2	UPS 3 KVA Minimum 30 Minutes Backup Line Interactive Pure Sinewave on Full Load for Auditorium, Meeting & Seminar Room The UPS must have a capacity of 3 kVA, providing reliable power backup for access and PoE network switches. It should support 220/230/240V AC output, deliver a pure sine wave, and offer ±1% voltage regulation. Efficiency should be ≥93% in normal mode and ≥97% in ECO mode. The scope includes commissioning of the UPS and connecting it to the network switches, with the vendor required to visit the site to assess connectivity needs, including cables and other accessories. The UPS must be centrally placed to ensure efficient power distribution. Failure to commission according to the requirements will result in disqualification. UPS Cabinet: (10 & 3 KVA) Specs: Glass front, Lock and key, ventilation fan and good quality PDU	7			
4	3 years repair & replacement Warranty of UPS by OEM				

PROVISION OF IT INFRASTRUCTURE FOR D- BLOCK FAST - NUCES H-11/4 ISLAMABAD (ATTACHMENT)

Ensure that you have provided the following documents, labelled and referred correctly. Please highlight the relevant information in the attached document.

S/No.	Required Documents (ONE COPY ONLY)	Attached?	Placed At
1.	NTN certificate		
2.	Sales Tax certificate		
3.	GST Deposit record		
4.	No Blacklisting & No litigation Affidavit		
5.	OEM Authorization Certificate		
6.	Literature of each quoted equipment and highlighted required features with web link for online verification		
7.	Firm's Registration Certificates Since foundation till date		
8.	Document showing similar equipment/work supplied/completed in last 2 years (Only Last 3 works / POs)		
9.	Financial Position Record (Bank Statement) – Last 1 Year		
10.	Resume of technical manpower (on company's payroll), posted in Islamabad/Rawalpindi office: Relevant to the project only (One Page)		
11.	Resumes of technical manpower (on company's payroll), dedicated for this project: Relevant to the project only (Please mention)		
12.	Bid is valid for at least 30 days		
13.	Each item is quoted separately		
14.	End-of-Life (EoL) and End-of-Sale (EoS equipment NOT QUOTED		
15.	Prices is quoted in Pak Rupees PKR		
16.	Delivery Time as per bidding document		
17.	Equipment is quoted with at least 3-5 Year warranty.		
18.	Make, Origin and Manufacturer is as indicated in the quotation in Bid		
19.	Compliance Sheet Signed and Stamped by owner/representative.		
20.	Firm must possess a registered PTCL number under its name		
21.	Last 3 x month utility bills , duly paid, of the office accommodation of the company/firm in Islamabad.		
22.	Sample board for Passive work LOT 1 & 2. (Compatible Items) (Disqualify if not submitted or incomplete)		
23.	25 Years Performance Warranty from Manufacture is mandatory. LOT 2 only		

Signature:	
Name:	Firm Seal
Designation:	Filli Seal
Date:	

Technical / Evaluation Criteria LOT 1-2

SNo.	Information/Data given by Firms	Remarks	Marks	Details
	Evaluation Parameters			
1.	Entity Status	Details	0~10	Entity Status: Sole Proprietorship, =3,
2.	Firms' Relationship with Principal (Evidence Letter Should be attached with bid)	Details	0~10	Firm/AOP=6, Pvt Co.= 8, Unlisted/Public Listed=10 Firm's Relationship with Principal:
3.	Total Technical Resource on Company Payroll for the project.	Details	0~10	System Integrator/Partner/Authorized Distributor=10, Reseller=5. Total Technical Resource on Company
4.	Relevant Projects Completed in Past 5 Yrs Govt / Private Sector (Purchase Order be attached)	Details	0~10	Payroll: 1 Marks per person. Relevant Projects completed in Past 5 Yrs in Govt / Private Sector: 1 Marks per
5.	Support Services	Details	0~10	Project.
6.	Basic/Tender Conformance to Specs	Details	0~30	Support Services: Local=10, Outstation=5.
7.	Relative quality evaluation of submitted samples	Details	0~10	Completion/Satisfactory performance certificate: 2 marks per certificate
8.	Registration with international/Local bodies of quoted items/bidder	Details	0~10	Relative quality evaluation of submitted samples: Marks will be awarded in comparison to submitted samples of all bidders Registration with international/Local bodies of quoted items/bidder:
				International/Govt=10, Others=5
9.	Samples (Passive Cabling Components) submitted with technical bid. *	Y/N	-	
10.	Conformation to Delivery Time *	Y/N	-	
	Total Marks		100	

Technical / Evaluation Criteria Lot - 3

	Information/Data given by Firms			
SNo.	Evaluation Parameters	Remarks	Position	Details
	Evaluation Parameters			OFM Pagistration in Polyipton with
1.	Principal's grounds/ physical office/ presence in Pakistan	Marks only	0~10	OEM Registration in Pakistan with Office=10, OEM presence without office= 07, Other=0
2.	Bidder must be at least Higher Tier of the proposed OEM for the last 5 years	Marks only	0~10	Gartner, NSS Labs, ISO etc. Relative marking.
3.	References of similar projects in Pakistan preferably in Government / Private and Education sector during last five years	Mandatory	Yes (0~10)/ No	01 Mark per PO (Specific to the quoted solution)
4.	Quality Certifications, Reviews/ Market Certifications (Latest Reports)	Mandatory	Yes (0~10)/ No	
5.	Principal's Endorsement for correctness and performance of the solution and Bid Authorization letter required for Hardware from OEM.	Mandatory	Yes (0~15)/ No	Certificate is required from OEM.
6.	Vendor must have local support portal available.	Marks only	0~10	
7.	Bidder must have Certified Resources in Network. CCIE/HCIE	Marks only	0~10	Provide certifications of bidder's manpower on payroll.
8.	Large scale project experience	Mandatory	Y/N	
9.	Acceptability in Pakistani Market	Mandatory	0~10	
10.	Conformance to Specs*	Mandatory	15	
11.	Conformation to Delivery Time *	Mandatory	Y/N	
	Total Marks		100	

TECHNICAL / EVALUATION CRITERIA For LOT - 4

S/No.	Evaluation Parameters	Marks	Remarks
1.	Confirmation to specs	30	
2.	Firm relationship with OEM	20	
3.	Relevant Past Experience of Govt / Private Educational Institutes	10	
4.	Financial Statement of last one year	10	
5.	Bidder's certified business relationship with OEM	10	
6.	Quality Certification, if any	10	
7.	Clarity & cohesiveness of bid document	10	
	Total Marks	100	
	Qualifying Marks	70	