



DHA SUFFA UNIVERSITY

DG-78, Off Khayaban-e-Tufail, Phase –VII (Extension), DHA, Karachi – 75500

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*Tender Package Fee: Rs. 2,000/-
(Rupees Two Thousand Only)
(Non-refundable)*

TENDER DOCUMENT (DSF/CS/02/2018-19)

Procurement of IT Equipment and Network Infrastructure for Final Year Project (FYP) Lab

For

Department of Computer Science

**DHA SUFFA UNIVERSITY,
(Sponsored / Managed by DHA SUFFA FOUNDATION)**

TECHNICAL PROPOSAL

Date of Issue	:	July 15, 2019
Last date of Submission	:	July 30, 2019 by 02:00 pm <i>(Bidders may be called for a pre-bid meeting)</i>
Technical Proposal Opening	:	July 30, 2019 at 02:30 pm
Financial Proposal Opening	:	Aug 07, 2019 at 02:30 pm

1. General Terms & Conditions

a) Bid Security

A bid security, in the shape of a Pay Order / Bank Draft in the name of “**DHA SUFFA FOUNDATION**” equivalent to **2.5%** of the total cost of the bid (inclusive of all applicable taxes), should be submitted along with the proposal in a separate sealed envelope, clearly marked as **Bid Security**.

b) Performance Security

Successful bidder shall submit 10% Performance Security of the total cost of the bid offered, in shape of a Pay Order / Bank Draft in the name of “**DHA SUFFA FOUNDATION**” which shall be released according to the following schedule:

- **02%** will be released after successful completion of work which includes supply, installation and commissioning and required trainings etc.
- **08%** will be released after the expiration of the warranty period.

c) Validity of the proposal

All proposal and prices shall remain valid for a period of 90 days from the closing date of the submission of the proposal. However, the responding organization is encouraged to state a longer period of validity for the proposal.

d) Currency

All currency in the proposal shall be quoted in Pakistan Rupees (PKR).

e) OEM Relationships & Warranties

The responding companies / firms / vendors should be an authorized business partner from the **ORIGINAL EQUIPMENT MANUFACTURER (OEM)**, for the proposed hardware / equipment in Pakistan. A certificate to this effect should be included in the proposal otherwise the bid is liable to be rejected.

Bidder must be agreed to provide at least 01 (One) Year Free Comprehensive onsite warranty which must include Labor, Parts replacement and any other related services.

f) Ownership

The ownership of all products and services rendered under any contract arising as a result of this tender will be the sole property of DSU.

g) Delivery of Equipment

- (i) All equipment will have to be delivered to the DHA SUFFA UNIVERSITY.
- (ii) All equipment will be delivered new, in packed condition directly to the

location, as per the discretion of DSU. If equipment delivered is not conforming to the specifications and bill of quantity, the equipment will not be accepted. Vendor / supplier shall be responsible for installation and commissioning of the equipment completed in all respects. The equipment will be installed only after inspection.

- (iii) Delivery time must be within **08 (Eight) weeks** from the date of award of Purchase Order.

h) Acceptance of Proposals

All bidders must comply to the Mandatory Criteria i.e., **Annexure – A**. DSU reserves the right not to accept the lowest or any proposal and to annul the bidding process without assigning any reason whatsoever as per SPPRA Rules. Furthermore, DSU reserves the right to award Purchase Order to either on Itemized lowest or overall lowest basis (where applicable).

i) Support Capabilities

The responding companies / firms / vendors should indicate the support capabilities for all the hardware / equipment provided during the course of the project. Details of qualifications / capabilities of support staff should also be included in the corporate profile.

j) Compliance to Technical Requirements

The responding companies / firms / vendors shall provide information as per requirements given in the Technical Specification of the Laboratory Equipment **Annexure 'B'**. Besides, equipment of equivalent or better specifications can also be quoted in this tender. Responding companies / firms / vendors may not propose / supply any kind of refurbished hardware equipment's / components in their proposals.

k) Material

Material of this order is subject to final inspection from Technical Team of DSU at the time of delivery.

l) Cancellation

DSU reserves the right to cancel any or all of the items, if equipment is not in accordance with its Technical Specifications given at **Annexure 'B'** / equivalent / better or if the delivery is delayed.

m) Payment

Payment will be made through crossed cheque after the delivery, Installation / Commissioning and required training of the equipment and receipt of the invoice. No Advance Payment will be made by DSF to the selected bidder. Part Payment is not allowed. Full payment will be made on complete delivery.

n) Penalty

If the delivery of the product is delayed beyond the date specified in the Purchase Order, a penalty equivalent to 0.5% of the total amount quoted would be charged per day to the responding companies / firms / vendors till the product is delivered.

o) Increase in price

No increase in the value of required equipment as per the BoQ at **Annexure – B** will be accepted on account of either unit price, total price, any or all other charges, duties, taxes, scope of supply and or any other head of account shall be allowed. DSF shall not be liable to pay for any increase in Government Taxes or Tariffs.

p) Alteration

Competent Authority reserves the right to change / alter / remove any item or article or reduce / enhance quantity without assigning any reason thereof as per SPPRA Rules

q) Invoice

Invoice / Bill (**mention of GST exemption**) along with the Delivery Challan should be submitted to the Procurement Officer, DSF after successful completion of the project.

2. Instructions / information for Responding Companies / Firms / Vendors

- a) You are invited to submit **Technical and Financial Proposal** for the **Procurement of IT Equipment and Network Infrastructure for Final Year Project (FYP) Lab of CS Department** at DHA SUFFA UNIVERSITY.
- b) Financial Proposals shall be submitted in a separate envelop and no amount shall be provided in the Technical Proposal. Financial Proposals of only technically qualified bidders, will be opened on **August 7, 2019** at 02:30 pm.
- c) Separate sealed envelopes of Technical Proposal, Financial Proposal & Bid Security should be further enclosed in another envelope & seal of Company should be affixed on the opening flaps.
- d) Any request for clarification regarding this tender document should be submitted in writing to:

Admin & Security Officer
DHA SUFFA UNIVERSITY,
DG-78, Off Khayaban-e-Tufail,
Phase VII (Ext),
DHA, Karachi

PABX : 021-35244853-54 Ext 123
Direct : 021-35244860
Fax : 021-35244856

Or

Email: mahmood.hasan@dsu.edu.pk

e) Submission of Proposals, mode of delivery and address

Technical and Financial proposals can be delivered by hand in a manner described in this section in para 2(b & c) so as to reach the office of the PO, DSU given in para(d) by the last date indicated for submission in a sealed envelope. **Proposals received by fax or email will not be accepted.** The complete proposal should be submitted by **July 30, 2019**. Bidder must not tear off or alter / change any page of this document. If document found altered / changed or torn out, the bid shall be rejected.

f) Date of opening of Technical Proposal

Technical Proposals will be opened on **July 30, 2019 at 02:30 pm** at DSU Admin & Security office in the presence of representative bidders who may care to attend. In case of holiday, proposals shall be opened on next working day at the same place and time.

g) Bid Evaluation Criteria / Factors

Company / Vendors / Firms who secured **75% (Seventy Percent)** or above on given Evaluation Factors in **Annexure - C** shall be considered as **qualified** for further processing.

h) Important

- i. This Tender Document is to be submitted in original signed and stamped by the vendor, on each page, to be ACCEPTED along with all of the supporting documents.
- ii. Certificates of NTN and GST Reg. must be provided. (Please provide photocopies of relevant documents).
- iii. Competent authorities reserve the rights to accept or reject any quotation / tender without any reason thereof or annul the entire process as per SPPRA Rules.
- iv. Payment will be made after receipt of DSU Store.
- v. DSU reserves the right to change / alter quantity / quality / specifications etc., without assigning any reason thereof as per SPPRA Rules.
- vi. No escalation in cost / price will be accepted at any stage, after approval of the quoted amount and award of the Purchase Order.
- vii. Submission by Vendor

A. The Vendor should provide the following TECHNICAL details;

1. The vendor should provide the company profile
2. The principal company should be supplying equipment in Pakistan for 05 or more years
3. The distributor should be a Tier 01 partner of the principal company. Certificate of the same should also be submitted
4. The distributor should also have technical office/personnel in Karachi
5. List of at least 3 recent clients where same/similar equipment was supplied with contact persons, contact details and customer feedback
6. Bill of Quantities (BoQ) with Brand, Model, Part Number should be provided WITHOUT ANY PRICES attached
7. Technical data sheet of the quoted item(s) and/or supporting documents
8. Warranty (**at least 01 year** for comprehensive replacement) of quoted items and the details of the after-sales services should be provided

9. Details of the training program for Faculty / NTS staffs should be provided

B. The Vendor should provide the following FINANCIAL Details:

Bill of Quantities (BoQ) with Brand, Model, Part Number should be provided WITH PRICES.

j) **Warranty:** All equipment / component must carry comprehensive onsite OEM warranties, bidders must be agreed to provide at least 01 (One) Year free comprehensive warranty which must include Labor, Parts replacement and any other related service.

Note:

- (i) Bidders must comply with the minimum specification required as provided in the above cited BoQ.
- (ii) Bidders may be called to attend a Pre-Bid Meeting at DSU.
- (iii) Provide complete brochures / reference / details of the equipment offered for evaluation purpose.

<u>Contact Person for Tender Process Query at DSU:</u>	<u>Contact Person for Technical Query at DSU:</u>
<p>Procurement Officer DHA SUFFA UNIVERSITY, DG-78,Off Khayaban-e-Tufail, Phase VII (Ext), DHA, Karachi</p> <p>Phone : 021-35244853-4 (Ext 123) Landline: 021-35244872 Email : mahmood.hasan@dsu.edu.pk</p>	<p>Engr. Shahzad Ahmed –Director IT DHA SUFFA UNIVERSITY, DG-78,Off Khayaban-e-Tufail, Phase VII (Ext), DHA, Karachi</p> <p>Phone: 021-35244853-4 (Ext 142) Landline: 021-35244873 Email: director.it@dsu.edu.pk</p>

Mandatory Criteria

Note: Only those vendors can apply in this tender who fulfill the following mandatory criteria:

1. At least Tier-1 Partner of the principal Company or 05 years business relations with the Manufacturer - in Pakistan on a letter as per format of **Annexure – D** or equivalent.
2. Name and Contact details of Manufacturer’s representative who is authorized to verify vendor’s local partnership etc.
3. Bidder must have coverage across the country with maximum presence in Karachi.
4. Bidders must have capability to provide and conduct necessary training sessions at DHA SUFFA UNIVERSITY for the propose equipment / components / software etc. for the designated DSU Staff (DSU will not pay any claim for reimbursement / remuneration / Boarding & Lodging or Travel for trainings sessions etc.)
5. Backup Inventory maintained by company for at least the quoted items mentioned in the BoQ at **Annexure - B**.
6. Delivery time within **08 (Eight) weeks** from the date of issuance of Purchase Order.
7. The bid shall be SOLELY submitted by the bidder. It shall NOT be a joint venture i.e. should **NOT** be jointly submitted by more than one party. Furthermore, the prospective bidder shall **NOT**, in any way, sublet the bid / contract to a third party.

1. Supply and Installation of Passive Network Infrastructure for Final Year Project Lab (FYP) at First Floor South Wing

S. No.	Description	Quantity
1.1 Ethernet		
1.	Cat6 Cable Roll 4 Pair (305 Meter Box) Make: 3M Volition \ Orange or equivalent	03 Nos
2.	Unloaded Patch Panel 48 Port Make: 3M Volition \ Orange or equivalent	01 No
3.	Unloaded Patch Panel 24 Port Make: 3M Volition \ Orange or equivalent	01 No
4.	Cable Manager 48 Port Make: 3M Volition \ Orange or equivalent	01 No
5.	Cable Manager 24 Port Make: 3M Volition \ Orange or equivalent	01 No
6.	Cat6 UTP Jacks Make: 3M Volition \ Orange or equivalent	60 Nos
7.	Single Shutter Face Plates Make: 3M Volition \ Orange or equivalent	60 Nos
8.	Cat6 UTP Patch Cable 1 meter Make: 3M Volition \ Orange or equivalent	60 Nos
9.	Cat6 UTP Patch Cable 3 meter Make: 3M Volition \ Orange or equivalent	60 Nos
10.	6 Port Power Distribution Unit for Network Rack	01 No
11.	2 Core 2.5mm power cable for PDU supply	01 No
1.2 Fiber Optic		
1.	6 Core Multi Mode Indoor Fiber Optic Cable	60 meter
2.	6 Port Rack Mount Loaded ODF (SC Type)	01 No
3.	3 Meter Fiber Patch Cords, multi-mode SC to LC (ODF to Switches)	02 Nos
1.3 Installation and Interconnection		
1.	Complete Installation of Network Racks, Cables Laying and Termination in existing concealed conduits Tagging & Fluke Testing including complete installation material & accessories (Back Box, Connectors, PVC Piping concealed). Fiber Splicing & OTDR Testing	01 Job

1.4 Details of Installation and Integration

- Refer the Attached Diagram.
- Cat6 Ethernet Cables will be installed through the already laid down concealed PVC conduits. The subject cables will be patched / terminated at the 15U network rack in the adjacent IT switch room. The 15U network rack for the IT switch room will be provided by DSU.
- The subject network rack at the FYP switch room up link will be connected via fiber cable to the IT Service Room Rack.
- From the IT Service Room Rack, single core of the existing multi core fiber cable will be patched end-to-end (IT service room to Data Center) to provide connectivity from FYP Rack to Data Center through IT Service Room Rack.
- The installation job includes complete installation of all passive network components including Ethernet and fiber optic cables listed above. It also includes Fluke Testing of each end to end Ethernet connection and OTDR testing of fiber links.
- Vendor will be responsible for the submission of OTDR and Fluke Testing Reports.
- Vendor will also label and document end to end ethernet and fiber nodes.
- Supply and installation of passive network is required to be executed by the same vendor.

2. Procurement of Active Network Infrastructure Equipment for Final Year Project (FYP) Lab

S.No.	Description	Quantity
2.1 Data Network Distribution Switches		
1.	Huawei S5720-52X-LI-AC or Equivalent 48 Ethernet 10/100/1,000 Base-T ports, 4 x 10 Gig SFP+ ports Two models: AC model and DC model, supporting RPS (redundant power supply) Forwarding performance: 144 Mbps Switching capacity: 336 Gbit/s	01 No
2.	Huawei S5720-28X-LI-AC or Equivalent 24 Ethernet 10/100/1,000 Base-T ports, 4 x 10 Gig SFP+ ports Two models: AC model and DC model, supporting RPS (redundant power supply) Forwarding performance: 108 Mbps Switching capacity: 336 Gbit/s	01 No
2.2 Wifi Access Points		
1.	Cambium CnPilot E410 (Motorola) or Equivalent 802.11ac Wave 2 beam supported Dual Band access point with software based controller 2 years standard warranty	01 No
2.	PoE Injector	01 No

3. Procurement of Computing Equipment and Accessories for Final Year Project (FYP) Lab

S.No.	Description	Quantity
3.1 Professional Desktop PC's for Final Year Project (FYP) Lab		
1.	Brand: Viper Pluto S AIO without Touch Screen or Equivalent Processor: Corei7 (8500) (8 th Gen) Memory: 16GB RAM Storage: 1000GB SATA Hard Drive Display: 21.5 FHD Screen Audio: Full Duplex Sound Ports: 1xHDMI Port, 2x3.0 USB and 2x2.0USB Ports WLAN: 802.11 11b/g Wifi interface card Ethernet: Gigabit Lan interface Peripherals: 1xUSB Keyboard and 1xUSB Optical Mouse OS: Free Dos Power: 90W Warranty: 05 Years	20 Nos
3.2 Professional Workstation PC's for Final Year Project (FYP) Lab		
2.	Brand: ASUS Desktop 72700-322561-2060 or Equivalent Processor: AMD 2 nd Gen. Ryzen 7 2700,8C/16T,3.20Ghz Turbo upto 4.10Ghz,L3 Cache-16MB Motherboard: ROG STRIX Series B450 AMD AM4 DDR4 3200MHz AURA SYNC RGB ATX Memory: 32GB DDR4-2666 MHz U-DIMM C16 1.2V (2x16GB) Graphic Card: DUAL Series, NVIDIA® GeForce RTX™ 2060, PCI Express 3.0 x16, GDDR6 6GB, 192-bit, CC 1920, Patented Wing-blade Fans, 0dB Technology, GPU Tweak II, wtfast, Quantumcloud SSD for OS: M.2 2280, 256 GB, PCIe Gen 3.0 x4, NVMe 1.3, Controller: Realtek, NAND Flash: 2nd Gen. 3D TLC, Sequential: Read: 2100 MB/s, Write: 1500 MB/s HDD: 3.5", 1TB, 64MB Cache, SATA III, 6Gb/s, 7200 RPM, Transfer Rate: 210MB/s LAN Card: Built-in I211-AT, 1 x Gigabit LAN Controller(s) Audio: Built-in S1220A 8-Channel High Definition Audio CODEC with Dual OP Amplifiers Video Ports: Built-in: 1 x DisplayPort, 1 x HDMI Discrete: 1 x HDMI 2.0b, 3 x DisplayPort 1.4, 1 x USB Type-C Rear I/O Ports: 1 x PS/2 combo, 2 x USB 3.1 Gen 2 Type-A, 4 x USB 3.1 Gen 1, 2 x USB 2.0, 1 x Optical S/PDIF Out, 5 x Audio jack(s) CPU Cooler: Low-Profile 120mm Black Aluminum Heat Exchanger Radiator and Low-Profile Pump with Low-Noise 120mm Fan Chassis: Compact Mid-Tower ATX Case with Stunning Tempered Glass Window – Black Drive Bays: 2 x 3.5" , 3 x 2.5"	20 Nos

	Front I/O Ports: 2 x USB 3.0, 1 x Headphone, 1 x Microphone Power Supply: 650 Watt, 80 PLUS White Certified, Intel ATX 12V 2.31 & EPS 12V 2.92, Active PFC, 120mm PWM Fan Display: ViewSonic VP Series, Wide Screen 21.5", WLED/TN, 1920x1080, Full HD 1080P Warranty: 3 Years Limited Hardware Warranty (CPU,MB,RAM,VGA,LED) 1 Year Limited Hardware Warranty (SSD,HDD,COOLER,PSU,KB,M)	
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3.3 Apple iMac's for Final Year Project (FYP) Lab

3.	Brand: Apple Model: iMac 21.5-Inch 4K Display (CTO) Display: 21.5-Inch 4K Display with Retina 4K 4096-by-2304 Processor: Turbo Boost up to 4.2GHz Graphic Card: Radeon Pro 560 with 4GB video memory VRAM Memory: 16GB 2400MHz DDR4 HDD: 1TB Fusion Drive Ports: Two Thunderbolt 3 ports Accessories: 1 x Magic Keyboard and 1 x Magic Mouse Warranty: 1 Year Standard Warranty	20 Nos
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4. Procurement of UPS Unit for Final Year Project (FYP) Lab

S.No.	Description	Quantity
1.	ABB UPS Power Scale 33 30kVA or Equivalent Cab C, 380 / 400 / 415 Vac (3φ+ N + PE) 12 V/ 24 Ah, Valve-regulated, Maintenance-free, Leak proof, non-spillable, Lead acid cells (VRLA) Part No. 04-1587 Warranty: 1 Year UPS and 1 Year Batteries standard warranty	01 No
2.	Installation and Commissioning of UPS	01 Job

5. Procurement of Microsoft Office 2019 Standard Academic Licenses for Final Year Project (FYP) Lab

S.No.	Description	Quantity
1.	Microsoft Office 2019 Standard Academic OLP License	60 Nos

Technical Evaluation

Points will be awarded against the following factors out of a maximum of 100 points, as listed below. The points to be given under each of the evaluation criteria are:

Sr.	Evaluation Factors	Maximum Points
1.	Compliance to requirements of the Tender	10
2.	Compliance to the BoQs of the Tender	20
3.	Authenticity of the offered Brand and Country of Origin	10
4.	Relationship with the OEM Tier-1 or Authorized Business Partner of OEM only (Provide certificate / original letter described in Annexure – A and Section 1 para – e)	10
5.	Details of Training Proposed for hardware/equipment/components to DSU's Designated Staff (All details regarding the Scope of training with effective timeline needs to be provided including Technical Staff Expertise, Qualification and Years of Experience)	10
6.	Number and value of similar assignments completed in the last 03 years and cumulative experience in similar projects. Updated client details need to be attached alongside. (Provide updated names, contact no., e-mail and postal addresses of the clients)	10
7.	Presence of Technical Support Engineers in Karachi .	10
8.	Previous experience of DSU with the vendor regarding warranty coverage, after sales support, and responsiveness with User Department . (Note: First-time bidding vendors will be given a score based on their scoring at points 2, 6 and 7)	10
9.	Previous experience of other customers with the vendor regarding warranty coverage, after sales support, and responsiveness.	10
TOTAL		100

The minimum technical score required to pass is **75 (Seventy Five)**.

FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM (MAF)

No. _____

dated _____

To

The Procurement Officer
DHA SUFFA UNIVERSITY,
DG-78, Off Khayaban-e-Tufail,
Phase VII (Ext),
DHA, Karachi

We _____ (Name of Principal / OEM) who are established and reputable manufacturers of _____ having offices at _____ and _____ do hereby authorize and confirm that M/s _____ (Name and address of Company / Vendor / Supplier) are our Local / Global partner and authorized to offer their bids, negotiate and conclude any contract with DHA SUFFA UNIVERSITY against the above invitation for tender offer for **Procurement of IT Equipment and Network Infrastructure for Final Year Project (FYP) Lab of CS Department.**

We hereby extend our full guarantee and warranty as per the terms and conditions of the tender and the contract for the equipment and services offered against this invitation for tender offer by the above firm.

Yours faithfully,

(Name) for and on behalf of M/s _____
(Contact no. and Email Address)
(Name & Stamp of the manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.

Information Required from Responding Companies / Firms / Vendors

Name of the Responding Company / Firm / Vendor	
Year of Establishment	
Name of Contact Person	
Cell No.	
Office Address	
Office Phone No.	
Office Fax No.	
Email	
NTN No. (attach a copy)	
GST Reg. No. (attach a copy)	
KARACHI OFFICE	
Name of Contact Person	
Cell No.	
Office Address	
Office Phone No.	
Office Fax No.	
Email	