



**MINISTRY OF HEALTH**

**General Hospital (Teaching), Peradeniya.**

**Bidding Document  
Volume 2 of 2  
(Section II, III, IV, V & VII)**

**Procurement of Goods  
National Competitive Bidding**

Supply, Installation & Commissioning of  
Backup Server & Accessories

**Contract No: THP/FT/08/2025**

**General Hospital (Teaching),  
Peradeniya.**

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## **SECTION II**

### **Bidding Data Sheet (BDS)**

## Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

<b><i>ITB Clause Reference</i></b>	<b>A. General</b>
<b><i>ITB 1.1</i></b>	The Purchaser is: <b>General Hospital (Teaching), Peradeniya.</b>
<b><i>ITB 1.1</i></b>	The name and identification number of the Contract are <b>Procurement of Supply, Installation &amp; Commissioning of Backup Server &amp; Accessories THP/FT/08/2025</b>
<b><i>ITB 2.1</i></b>	The source of funding is: <b>GOSL</b>
<b><i>ITB 4.1</i></b>	a. If the estimate cost for the procurement exceeds the Rs. 5 million the bidder shall register at the Registrar of Public Contract Sri Lanka at the time of submission of bids (PCA 3)
	<b>B. Contents of Bidding Documents</b>
<b><i>ITB 7.1</i></b>	For <b><u>Clarification of bid purposes</u></b> only, the Purchaser's address is: Attention: Director Address: General Hospital (Teaching), Peradeniya Telephone: 081-2388001 Facsimile number: 081-2388371
	<b>C. Preparation of Bids</b>
<b><i>ITB 11.1 (e)</i></b>	The Bidder shall submit the following documents with the bid. Failure to submit one or more of the following documents, bids will be treated as <b>non-responsive</b> : <b>1.</b> Bid Submission Form (Including all related Cost, i.e. Post warranty service charges, civil construction work, etc.) <b>2.</b> Bid Security <b>3.</b> Power of Attorney to the signatory <b>4.</b> Price Schedule – Goods/service (Installation & commissioning) <b>5.</b> Price Schedule - Maintenance (if applicable) <b>6.</b> Delivery schedule - Goods/service (Installation & commissioning) <b>7.</b> Manufacture's Authorization Letter <b>8.</b> Bidder's response to Technical Specification

	<p>9. Detailed Pro-forma Invoice</p> <p>10. Post qualification data (Financial Report, Work Shop details of Test equipment &amp; Technical staff... Etc.)</p> <p>11. Copy of Business Registration Certificate</p> <p>12. Certificate of Registration as an agent on behalf of the tender (PCA 3 form)</p>
<b>ITB 15.1</b>	<p>a. The bidder shall quote all prices of goods &amp; services in Sri Lankan Rupees.</p> <p>b. If the Insurance is required Bidder shall submit separate Insurance coverage from port of disembarkation to the handing over &amp; commissioning including inland transportation, storage...etc.</p>
<b>ITB 17.3</b>	<p>Period of time the Goods are expected to be functioning (for the purpose of spare parts): <b>10 years from the date of delivery</b></p>
<b>ITB 18.1 (b)</b>	<p>Warranty &amp; post warranty, after sales services are required</p>
<b>ITB 19.1</b>	<p>The bid shall be valid until. <b>77 days</b></p>
<b>ITB 20.1</b>	<p>Bid shall include a Bid Security issued by</p> <ol style="list-style-type: none"> <li>1. Bank operating in Sri Lanka;</li> <li>2. A Bank operating in another country but the guarantee "confirmed" by a bank operating in Sri Lanka;</li> <li>3. Construction Guarantee Fund;</li> </ol>
<b>ITB 20.2</b>	<p>The amount of the Bid Security shall be <b>Rs. 135,800.00</b></p> <p>The validity period of the bid security shall be until <b>105 Days</b></p>
	<p><b>D. Submission and Opening of Bids</b></p>
<b>ITB 22.2 (c)</b>	<p>The inner and outer envelopes shall bear the following identification marks:</p> <p><b>Procurement of Supply, Installation &amp; Commissioning of Backup Server &amp; Accessories</b></p> <p><b>THP/FT/08/2025</b></p> <p><b>Closing at 2.00 PM on 07.03.2025</b></p>

ITB 23.1	<p>For bid submission purposes, the Purchaser's address is:  Attention: <b>Chairman, Regional Procurement Committee.</b>  Address: <b>General Hospital (Teaching), Peradeniya.</b></p> <p style="text-align: center;">OR</p> <p>Bids may be deposited in the Tender Box available at the office of  <b>The Accountant,</b>  <b>General Hospital (Teaching),</b>  <b>Peradeniya</b></p> <p>The deadline for the submission of bids is:  <b>Date: 07.03.2025</b> <b>Time: 2.00 PM</b></p>
ITB 26.1	<p>The bid opening shall take place at:  <b>Address:</b>  Office of <b>Director Office</b>  <b>General Hospital (Teaching),</b>  <b>Peradeniya.</b></p> <p><b>Date: 07.03.2025</b> <b>Time: 2.00 PM</b></p>
	<b>E. Evaluation and Comparison of Bids</b>
ITB 35.3 d	<p><b>Delivery schedule</b></p> <p>The goods/service covered under this invitation are required to be supplied/completed within number of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries and offering delivery beyond this timeline will be treated as non-responsive.</p>

ITB 35.4 <sup>1</sup>	<p><b>Evaluation Criteria</b></p> <p>The following factors and methodology will be used for evaluation:</p> <ul style="list-style-type: none"> <li>a. Completeness of the Bidding Document</li> <li>b. Responsiveness of the bid as per ITB 11.1 E</li> <li>c. Technical Specification compliance.</li> <li>d. Bid Price (ITB 14)</li> <li>e. Operational cost of the equipment</li> <li>f. Service &amp; Maintenance cost (if applicable) <i>NPV value (at a depreciation rate of 10%) – the cost should be in Sri Lankan Rupees.</i></li> <li>g. Past performance of the Product</li> <li>h. Post qualification</li> <li>i. Delivery schedule</li> </ul>
ITB 35.5	<p>Bidders are not allowed to quote for one or few items.</p> <p>Evaluation is based on whole work.</p>
ITB 37.2	<p><b>Post qualification Requirements</b></p> <p>After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 36.1, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 37, using only the requirements specified.</p> <p><b>(a) Experience and Technical Capacity</b></p> <p>The Bidder shall furnish documentary evidence to demonstrate that it meets</p> <ul style="list-style-type: none"> <li>1. Past performance of the similar Goods.</li> </ul> <p>(Past repair and maintenance records, average equipment downtime &amp; end-user's comments will be considered)</p>

	<b>F. Other Requirements</b>
<b><i>ITB 42.2</i></b>	<ol style="list-style-type: none"><li>a. If the contract value exceeds the Rs.5 million, the bidder shall register the contract at the Registrar of public contracts Sri Lanka and submit the registered contract within 7 days of the receipt of an award.</li><li>b. The Bidder shall submit a plan of the installation room, certified by the hospital Director, if applicable</li><li>c. The bidder shall submit a written consent that the conditions of Service &amp; Maintenance agreement shall not be changed and shall not request to change, after the pre-agreed price of 05 years, if the agreement should be extended beyond the original 05 years period</li></ol>



# **Section IV**

## **Bidding Forms**

### **Table of Forms**

Bid Submission Form

Price Schedule

Bid Guarantee

Manufacturer's Authorization

## Bid Submission Form

*[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

No.: *[insert number of bidding process]*

THP/FT/08/2025

To: **Director, General Hospital (Teaching), Peradeniya**

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services
- (c) The total price of our Bid without VAT, including any discounts offered is: *[insert the total bid price in words and figures]*;
- (d) *the total bid price in words and figures]*;
- (e) The total price of our Bid including VAT, and any discounts offered is: *[insert the total bid price in words and figures]*;
- (f) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 23.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (g) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 43 and CC Clause 17 for the due performance of the Contract;
- (h) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;
- (i) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Agency;
- (k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name: *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*

## Price Schedule

1. The Bidder shall fill in the Price Schedule in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the list of Goods and Related Services specified by the Purchaser on the Schedule of Requirements.
2. If so specified in the Bid Data Sheet and in the Schedule of Requirement Bidder shall indicate the relevant post warranty service to be incurred by the Purchaser for successive Ten years.
3. Consumable parts to be excluded from the maintenance contract shall be given separately with their unit cost valid for a period of three years.
4. The costs quoted for the maintenance contract shall be binding upon the Bidder, which will form a basis for a service and maintenance agreement in case the Bidder is selected to perform the contract.

**PRICE SCHEDULE**  
All Prices to be Quoted in Rupees.

1	2	3	4	5	6	7	8	9	10	
Line Item No.	Description Of Goods	Quantity	Description	Country of Origin	Unit price (inclusive of duties, sales & other taxes) Excluding VAT Rs.	Price per line item (Col 3x5) Rs.	Transportation, insurance & other related services to deliver , install & commission at the final destination (if not included under col.5) Rs.	Total price excluding VAT (col.6+7) Rs.	VAT Rs.	Total price including VAT (col.8+9) Rs.
1	Supply, Installation & Commissioning of Backup Server & Accessories	01								
	Total Value									

Signature of Bidder: .....

Date:.....

Name: .....

Company seal:



## Bid Guarantee

*[This Bank Guarantee form shall be filled in accordance with the instructions indicated in brackets]*

----- *[insert issuing agency's name, and address of issuing branch or office]* ----

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**Beneficiary:**            **Director, General Hospital (Teaching), Peradeniya.**

**Date:**                        ----- *[insert (by issuing agency) date]*

**BID GUARANTEE No.:**    ----- *[insert (by issuing agency) number]*

We have been informed that ----- *[insert (by issuing agency) name of the Bidder; if a joint venture, list complete legal names of partners]* (hereinafter called "the Bidder") has submitted to you its bid dated ----- *[insert (by issuing agency) date]* (hereinafter called "the Bid") for the supply of *[insert name of Supplier]* under Invitation for Bids No. ----- *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of - ----- *[insert amount in figures]* ----- *(insert amount in words)* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) Has withdrawn its Bid during the period of bid validity specified; or
- (b) Does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful, otherwise it will remain in force up to ----- *(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date. \_\_\_\_\_

*[Signature(s) of authorized representative(s) ]*

## Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

No.: *[insert number of bidding process]*

THP/FT/08/2025

To: *[insert complete name of Purchaser]*

*Director, General Hospital (Teaching) Peradeniya*

**WHEREAS**

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* who is currently our sole agent in Sri Lanka to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the goods]* and to subsequently negotiate and sign the Contract.

In the event that the sole agency is changed to a different company we will ensure that all contractual obligations entered into between the Purchaser and the Bidder (sole agent) including warranty and post warranty maintenance (if required by the Purchaser), provision of spare parts etc. within the contract period will be fulfilled by the new agent.

We also confirm that spare parts, accessories and consumables will be freely available for the model/models offered for a period of at least s10 years after the warranty period.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*



## **Section V**

# **Schedule of Requirements**

1. List of Goods, Related Services & Delivery Schedule
2. Technical Specifications

### List of Goods, Related Services & Delivery Schedule

Item No.	Description of Goods	Qty.	Final Destination as specified in BDS	Required Delivery Period <sup>1</sup>	Bidder's Offered Delivery Period <sup>2</sup>
1	Supply, Installation & Commissioning of Backup Server & Accessories	01	TH Peradeniya	8 Weeks	

1. No. of weeks from the date of effectiveness of the contract / effective period will be counted from the date of signing the contract
2. The latest delivery/completion date will be considered on the date of delivery/completion of the complete order without any shortages as mentioned in the Pro-forma Invoice (including all accessories)
3. Bidder shall offer the delivery period in weeks. The latest delivery date offered by the bidder will be considered as the delivery period (ITB 35.3 d)
4. This schedule needs to be filled by the Purchaser only If post warranty maintenance is specified as required in the BDS.



## Section VII.

### Contract Data

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC). Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

CC 1.1(i)	The Purchaser is: <b>General Hospital (Teaching), Peradeniya</b>
CC 1.1 (m)	Final Destination is: <b>General Hospital (Teaching), Peradeniya</b>
CC 8.1	<p>For <b>notices</b>, the Purchaser's address shall be:</p> <p>Attention: <b>Director</b></p> <p>Address: <b>General Hospital (Teaching), Peradeniya.</b></p> <p>Telephone: <b>081 – 2388001 / 0812388016</b></p> <p>Fax: <b>081 - 2388371</b></p> <p>E mail: <b>perahospital@gmail.com</b></p>
CC12.1	<p>Details of Shipping and other Documents to be furnished by the Supplier:</p> <p>1.<b>Tax Invoice</b></p> <p>2.<b>Manufacture Certificate</b></p>
CC 15.1	<p><b>Method &amp; Conditions of Payment to be made to the Supplier under this Contract shall be as follows:</b></p> <p><b>I. On Delivery:</b></p> <p>Hundred (100) percent of the contract price shall be paid on verification of the goods delivered / services completed in the relevant premises of TH Peradeniya against the purchase Order and upon submission of the documents specified in CC Clause 12.1</p> <p><b>II. Liquidated Damages</b></p> <p>a. In the event of the supplier unable to supply the goods / complete service within the agreed period, the supplier shall be liable to pay a sum equivalent to the 1% of total contract value for each week and maximum of 10% shall be charged for 10 weeks beyond the agreed period as liquidate damages.</p> <p>The performance bond shall be forfeited and the supplier shall be black listed if the supplier is unable to supply goods/complete the service after 10 weeks beyond the agreed period</p>
CC 17.1	<b>A performance security shall be required ten percent (10%) of the contract value</b>
CC 27.3	<p><b>Warranty</b></p> <p>Required period/s of warranty is mentioned in the technical specifications, the warranty shall remain valid for required period/s mentioned in the specifications after the goods/services as the case may be, have been delivered/completed and accepted at the final destination indicated in the contract data.</p>

# Document Checklist

*(This document must be returned with the bid.)*

Bids shall be accompanied by following documents duly filled and signed by bidders as per the given order.

Please tick the appropriate cage, if enclosed, and give the relevant page number in Your bid documents.

No.	Document	Enclosed	No.
1	Bid Submission Form (Including all related Cost, i.e. Post warranty service charges, civil construction work, etc.)		
2	Bid Security		
3	Power of Attorney to the signatory		
4	Price Schedule – Goods		
5	Delivery Schedule - Goods		
6	Price Schedule –Maintenance (if applicable)		
7	Cost of major replacement components, mandatory spare parts, consumables, accessories etc. Valid for 3 yrs. From the expiry of warranty		
8	Manufacturer's Authorization letter		
9	Bidder's response to technical specifications		
10	Detailed Pro forma invoice		
11	Relevant catalogues, technical literature, product data sheets etc.		
12	Post Qualification data		
	a) Financial Reports		
	b) Work shop & of Test equipment details		
	c) Technical staff details		
13	Copy of Business Registration Certificate		
14	Certificate of Registration as an agent of behalf of the tender (PCA 3 form)		
15	Insurance Certificate from port of disembarkation to handing over (if required in BDS)		
16	Warranty Certificate of Manufacture		
17	Declaration from the Manufacture that the goods supplied under this procurement will be brand new		
18	A plan of the installation room, certified by the hospital Director, if applicable.		
19	A written consent that the conditions of services and maintenance agreement shall not be changed and shall not request to change, after the pre-agreed price of five years, if the agreement should be extended beyond the original 05 years period.		

.....  
Bidder's Name, Signature, Date & Company seal

<b>Minimum Technical Specifications for Server</b>			
		<b>Compulsory</b>	<b>Bidder's Response</b>
<b>1</b>	<b>Make (Should be a world recognized Brand)</b>	<b>C</b>	
<b>2</b>	<b>Model</b>		
<b>3</b>	<b>Country of Origin</b>		
<b>4</b>	<b>Country of Manufacture</b>		
<b>5</b>	<b>Should be Energy star qualified model</b>	<b>C</b>	
<b>6</b>	<b>Manufacture Authorization &amp; ISO Certification must be attached</b>	<b>C</b>	
<b>Warranty, Support and Spare Parts Availability</b>			
7	Manufacturer's comprehensive warranty for 7 years NBD (Next Business Day) Onsite Service for all components of the system (Proof document should be attached for Manufacture onsite warranty)	<b>C</b>	
	All defective parts should be replaced free of charge with the brand-new parts during the warranty period from manufacturer's authorized technical team (Technical staff details should be attached)	<b>C</b>	
	Original Equipment Manufacturer should maintain all required spare parts in an Independent Part Depot	<b>C</b>	
	Should have access to 24x7-basis manufacturer's Customer Service	<b>C</b>	
	The bidder should have 3 years' experience in selling the quoted brand in Sri Lanka.	<b>C</b>	
8	Form-Factor should be 2U with Rack Railing kits	<b>C</b>	
<b>System Configuration</b>			
9	CPU type	Intel® Xeon® Gold 5416S 2G, 16C/32T, 16GT/s, 30M Cache, Turbo, HT (150W) DDR5-4400	<b>C</b>
10	CPU Cores Per Processor	At least 16 Cores 32 Threads	<b>C</b>
11	Per CPU L3 Cache Memory	At least 30M Cache	<b>C</b>
12	Required CPU Count	Two	<b>C</b>
13	Main Memory	Should be minimum of 256 GB 3200MT/s Dual Rank DDR4 RDIMM,	<b>C</b>
		should be available 16 DIMMs scalable up to at least 1 TB DDR4 3200MT/s	<b>C</b>
14	Storage capacity	Should be available 12 x 4TB Hard Drive SAS ISE 12Gbps 7.2K 512n 3.5in Hot-Plug, AG Drive Additional 2 x 960GB SSD Drives	<b>C</b>
15	Storage Controller & Features	Should consist of a SAS 12G type or higher Modular Controller with 8GB non-volatile cache memory	<b>C</b>
		12 Eight-port internal SATA+SAS solution supporting 3Gbps, 6Gbps and 12Gbps SAS/SATA hard disk drives (HDDs) and solid-state drives (SSDs)	<b>C</b>
		Up to 12Gbps per port data transfer rate	<b>C</b>

		Should support the automatic rebuilding of the spare drive	C	
		Should facilitate pre-alerts for impending hard drive failures	C	
		Global and dedicated hot spare with revertible hot-spare support: automatic rebuild	C	
16	RAID Level supported	RAID 0, 1, 5,10,50 and 60	C	
17	Network Interfaces	Quad -Port 1GbE On-Board Network ports. Dual Port 10/25GbE SFP28 Adapter with transceivers.	C	
18	Remote Management	Should consist of a dedicated network interface for remote management	C	
		Detect an invalid, untrusted BIOS image when a boot is attempted and recover to an authenticated, trusted BIOS image	C	
		Should be cable of performance monitoring & hardware management, BIOS & OS access through a Virtual Console (Up to 6 users), providing both inbound and out of band remote management of the Server	C	
		Redfish SSE Support	C	
		Automatic Secure recovery of OS, as well as BIOS and BMC	C	
		Agentless monitoring and configuration	C	
		Allow for automatic installation and configuration and renewal of SSL Certification	C	
		Dynamic enabled USB ports Server System Lockdown Mode	C	
19	USB Ports	At least 3x USB 2.0/3.0 type ports should be available	C	
20	PCI Slots	Six or more	C	
21	Internal Optical Drives	1x DVD +/-RW, SATA external	C	
22	Hardware Redundancy	Should consist of a redundant power supply system with each supply rated for 1400W and operating on 220-240V/50Hz	C	
Operating System Compatibility				
23	Should support common Server grade operating systems and all related drivers should be available. A complete operating system supportability matrix should be provided with the bid submission		C	
Virtualization Support				
24	Should be compatible with all major commercial grade virtualization platforms. A complete virtualization system compatibility matrix should be provided with the bid submission		C	
Bill of Material				
25	Complete Bill of Materiel with all relevant part numbers should be provided together with the bid submission		C	
System Management				
26	Should be able to download and update the firmware <b>without active warranty or post warranty service contract.</b>		C	
27	Warranty status for all managed servers should be reported in all consoles		C	
28	Should be able to auto update enables direct firmware update from repositories		C	
29	To maintain an up to date firmware repository and update managed servers, repository manager should provide proactive notification,		C	

<b>Minimum Technical Specifications 24G PoE Switch</b>			<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make	Please Specify		
2	Model	Please Specify		
3	Country of Origin	Please Specify		
4	Country of Manufacture	Please Specify		
5	Form Factor	1U Rack Mountable	<b>C</b>	
6	Management	Fully Manageable	<b>C</b>	
<b>Ports</b>				
7	LAN Ports	24 x Auto-negotiating 10/100/1000 BASE-T PoE ports	<b>C</b>	
8	SFP+ Ports	4 x SFP+ fixed 1/10G SFP+ fixed ports	<b>C</b>	
9	Console Port Type	1 x RJ45/USB-C/Micro USB (Please specify)	<b>C</b>	
<b>Memory and Processor</b>				
10	Memory	4 GB or more	<b>C</b>	
11	Processor	Dual Core 1000 MHz or more	<b>C</b>	
12	Storage	8GB eMMC or more	<b>C</b>	
<b>Performance</b>				
13	Switching Capacity	120 Gbps or more	<b>C</b>	
14	Throughput	92 Mbps or more	<b>C</b>	
15	Routing Table Size	Please specify		
16	MAC Address Table Size	Please Specify		
17	Packet Buffer Size	1MB or higher	<b>C</b>	
18	Supported VLANs	Up to 4094 VLANS	<b>C</b>	
19	PoE Power	Please specify		
<b>Latency</b>				
20		1 Gbps Latency: <2 μs	<b>C</b>	
21		10 Gbps Latency: <2 μs	<b>C</b>	
<b>Management &amp; Other</b>				
22		Command-line interface	<b>C</b>	
23		Web browser	<b>C</b>	
24		Configuration menu	<b>C</b>	
25		LLDP and LLDP-MED must be supported	<b>C</b>	
<b>Configuration</b>				
26	Configurations should be done according to the guidelines provided by the university		<b>C</b>	
27	<b>Warranty</b>			



<b>Minimum Technical Specifications UPS – 2kVA</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Output power rating of 2kVA		
2	Output voltage 220V/240V +-5%, Frequency 50Hz +- 0.5Hz	<b>C</b>	
3	Input voltage range 180V-260V AC, 50Hz	<b>C</b>	
4	Online-interactive operation	<b>C</b>	
5	15minute backup time at full load, and 45minute backup time at 50% load	<b>C</b>	
6	Sealed type batteries	<b>C</b>	
7	Audible alarms to indicate battery operation	<b>C</b>	
8	RS-232 or USB interface and matching cable for remote shutdown	<b>C</b>	

<b>Minimum Technical Specifications for CAT-6A 1G patch codes (2m)</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make: Please specify		
2	Model: Please specify		
3	Country of origin (Europe, USA or UK will be preferred)	<b>C</b>	
4	Country of manufacture: Please specify		
5	Manufacturer authorization	<b>C</b>	
6	25 Years for system performance warranty should be provided	<b>C</b>	
7	Warranty should provide a 05-year component warranty	<b>C</b>	
8	02 Certified installers / Engineers for quoted product, Certificates should be submit with the bid	<b>C</b>	
9	Manufacturer should be ISO 9001 certified	<b>C</b>	
10	Conductor: Bare copper wire 0.55mm (AWG23)	<b>C</b>	
11	Insulation material: HDPE	<b>C</b>	
12	Outer Jacket: LSZH	<b>C</b>	
13	Bandwidth of 500 MHz or higher	<b>C</b>	
14	The Cat.6A S/FTP cable shall have the diameter of the outer jacket not greater than 7.2 mm	<b>C</b>	
15	Performance conforms to EN50173-1, ISO/IEC 11801 and EIA/TIA-568C, Category 6A Specifications	<b>C</b>	
16	Fire safety standard: IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2	<b>C</b>	
17	Characteristic Impedance of Cat.6A S/FTP cable shall be $100\Omega \pm 5\Omega$ and the copperconductor shall be AWG 23	<b>C</b>	
18	The proposed CAT6A S/FTP cable shall be third party tested and the 3 <sup>rd</sup> party certification should be submitted with the bid	<b>C</b>	
19	The tender shall propose Cat.6A RJ-45 - RJ-45 patch cords that shall be fully matched with the relevant Cat.6A cable and Module to deliver the desired performance of 250 MHz to form Class E end-to-end cabling channel.	<b>C</b>	
20	RJ-45 - RJ-45 patch cords shall comply with applicable standards IEC 61156, TIA/EIA 568-C.2	<b>C</b>	
21	All patch cords proposed shall be factory terminated at both ends, field terminated patch cords will not be acceptable.	<b>C</b>	

<b>Minimum Technical Specifications for 24 PORTS CAT-6A Patch Panel</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make: Please specify		
2	Model: Please specify		
3	Country of origin (Europe, USA or UK will be preferred)	<b>C</b>	
4	Country of manufacture: Please specify		
5	Manufacturer authorization	<b>C</b>	
6	25 Years for system performance warranty should be provided	<b>C</b>	
7	Warranty should provide a 05-year component warranty	<b>C</b>	
8	Manufacturer should be ISO 9001:2008; ISO 14001:2004; OHSAS 18001:2007certified	<b>C</b>	
9	Proposed patch panel shall be metallic and front cover shall made of flame-retardant compound which is UL94V-0 rated.	<b>C</b>	
10	Performance conforms to TIA/EIA -568 A/B, ISO/IEC 11801 & EN 50173-1 Category 6A Specifications	<b>C</b>	
11	Proposed patch panel shall be fitted with a cable strain relief for retention of incoming horizontal cable.	<b>C</b>	
12	Patch panels shall be modular, rack-mount, 19 inch and 1RU with capacity to house 24 Ports of Cat. 6A modular snap-in un-shielded keystone modules	<b>C</b>	
13	The patch panel shall provide a transparent plastic label-holder for easy individual port identification and label strips shall be easily replaceable.	<b>C</b>	
14	Patch panel shall come in Black similar to RAL 9005	<b>C</b>	

<b>Minimum Technical Specifications for SFP+ transceiver</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make & Model : Please specify		
2	1000/10000Base-LX (for single mode)	<b>C</b>	
3	LC interface	<b>C</b>	
4	Compatibility with above mentioned L2& existing core Switch (Aruba 5406)	<b>C</b>	
5	Warranty: One-year comprehensive warranty	<b>C</b>	

	<b>Specification for 12 core Single Mode Outdoor Fiber</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Cable Type	Armored	C	
2		Loose tube	C	
3		Outdoor	C	
4		Water blocking Gel	C	
5	Fiber Type	Single-mode, 9/125-micron primary coated buffers	C	
6		OS2	C	
7	Armor Type	Corrugated steel Tape Armor	C	
8	Number of Cores	Mentioned on the BoQ	C	
9	Armor	Corrugated Steel Tape Armor	C	
10	Cable Construction Type	Armored, loose tube	C	
11	Jacket	Polyethylene Jacket (PE)	C	
12	Attenuation	1310nm $\leq$ 0.36 dB/km 1550nm $\leq$ 0.22 dB/km	C	
13	Chromatic Dispersion (ps/nm.km)	1310nm $\leq$ 3.5 1550nm $\leq$ 18 1625nm $\leq$ 22	C	
14	Attenuation vs Bending (60mm x 100 turns)	30mm radius, 100 turns $\leq$ 0.1dB @ 1625nm	C	
15	Clad Diameter (um)	Please specify	C	
16	Core-Clad Concentricity (um)	Please specify	C	
17	NON-Circularity (%)	Please specify	C	
18	Coat Diameter	245 + - 10	C	
19	Zero Dispersion Wavelength (um)	1310 + - 10	C	
20	Zero Dispersion Slope (ps/nm <sup>2</sup> .km)	$\leq$ 0.092	C	
21	Tensile Loading	Testing method according to IEC 6794-1-E1 (test method and acceptance criteria to be provided)	C	
22	Crush Resistance	Testing method according to IEC 6794-1-E3 (test method and acceptance criteria to be provided)	C	
23	Impact Resistance	Testing method according to IEC 6794-1-E4 (test method and acceptance criteria to be provided)	C	
24	Torsion	Testing method according to IEC 6794-1-E7 (test method and acceptance criteria to be provided)	C	
25	Water Penetration	Testing method according to IEC 6794-1-F5B (test method and acceptance criteria to be provided)	C	
26	Temperature Cycling	Testing method according to IEC 6794-1-F1 (test method and acceptance criteria to be provided)	C	
27	Drop Performance	Testing method according to IEC 6794-1-E14 (test method and acceptance criteria to be provided)	C	
28	Bend Radius (Static bending/Dynamic Bending)	Please specify	C	
29	Cable Diameter	Please specify	C	
30	Lose Tube Diameter	Please specify	C	
31	Operating Temperature	Please specify	C	
32	Warranty	25 Years Manufacture Performance Warranty for the product	C	
33	Vendor Should have minimum of 10 years' experience in selling the quoted brand in Sri Lanka		C	
34	Vendor should have at least one certified Engineer the quoted product by the manufacture (Should attach proof)		C	
35	Letter from the distributor agent starting the capability authorization for sale support of the quoted product		C	

<b>Minimum Technical Specifications for Fiber Optic Patch Panel</b>			<b>Compulsory</b>	<b>Bidder's Response</b>
1	Fiber Management shelf	The fiber management shelf shall have compact design and be ideal for high density front patching applications.	<b>C</b>	
2		Should be fully loaded and factory fitted assembly with no assembling required during installation at site	<b>C</b>	
3		High Density: 1U: 6/12 Fiber terminations	<b>C</b>	
4		Should be factory fitted and tested with LC adapters, splice trays, LC SM Pigtails, sleeves and fiber management rings	<b>C</b>	
5		Compatible with all connector types	<b>C</b>	
6		Mounting brackets can be placed in different positions	<b>C</b>	
7	Drawer style shelf	Sliding type	<b>C</b>	
8		Easy access to splicing tray	<b>C</b>	
9		Easy access to back side of connector	<b>C</b>	
10	Accessories	Fiber management guides, radius controls & secure tie downs provided	<b>C</b>	
11		Sealed cable inlets for dust and rodent protection	<b>C</b>	
12		Others: Please specify	<b>C</b>	
13	Fiber input	2 No's minimum	<b>C</b>	
14	Housing Material	Min 16-gauge steel	<b>C</b>	
15	Surface	Powder coated	<b>C</b>	
16	Compliance	RoHS Compliant	<b>C</b>	

<b>Minimum Technical Specifications for Cable Guide</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	3 years component warranty should be provided	<b>C</b>	
6	48 port 2U rack mountable duct design with lid	<b>C</b>	
7	Mounting screws must include	<b>C</b>	

<b>Minimum Technical Specifications for LC to LC Patch Cord SM (2m)</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make and Type	LC to LC Duplex Fiber Optic Patch Cords 9/ 125	<b>C</b>
2	Cable Sheath	LSZH	<b>C</b>
3	Cable Diameter	1.8 mm mini twin zip	<b>C</b>
4	Ferrule	Ceramic	<b>C</b>
5	Buffer	.6 mm	<b>C</b>
6	Return Loss	> 45 db	<b>C</b>
7	Insertion Loss	.1 db Typical Max .3 db	<b>C</b>
8	ROHS	ROHS/ELV Compliant	<b>C</b>
9	Length	Mentioned in the Boq	<b>C</b>

<b>Minimum Technical Specifications for Fiber termination</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Fibers must be directly terminated on to LC connectors	<b>C</b>	
2	Fusion splicing of factory-made LC pig-tails permitted only if fully automated fusion splicing equipment is used	<b>C</b>	
3	<b>Pigtails:</b> 9/125,0.9, SC, LSZH, Semi Tight Pre-terminated compatible with LC snap in adapter plates	<b>C</b>	

<b>Minimum Technical Specifications for Free standing network cabinet</b>		<b>Compulsory</b>	<b>Bidder's Response</b>
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 years component warranty should be provided	<b>C</b>	
6	42U, 19" rack with 1000 mm (Or Above) depth	<b>C</b>	
7	Thickness: mounting profile 2.0mm & others 1.2 -1.5mm	<b>C</b>	
8	finishing should be powder coated black/gray color	<b>C</b>	
9	should consist of key lockable front and Rear doors with metal mesh	<b>C</b>	
10	should consist of two side panel opening with key locks	<b>C</b>	
11	Should have adjustable railing for front and rear	<b>C</b>	
12	Network cabinet should be from the same structured cabling manufacturer	<b>C</b>	
13	Should consist of 13A Square pin 6way Power distribution unit	<b>C</b>	
14	Should consist of two cable entry gourmets from top of the rack	<b>C</b>	
15	should consist of two number of exhaust fans in top plate	<b>C</b>	
16	Equipment rack should be grounded using proper earth wire 2.5mm (7029) or proper method.	<b>C</b>	
17	should consist of proper ventilation halls in addition to exhaust fans	<b>C</b>	
18	Should include sufficient M6 cage nut & screw for device mounting	<b>C</b>	
19	Should include cantilever shelf	<b>C</b>	