No. **MLSU/UCC/RUSA/2021/43**   Date: 22.02.2021

Corrigendum for Tender Technical Specification

Subject:- Change of specification after pre-bid meeting

In reference to **"Supply Installation & Commissioning of Network Items and Services"** the Pre bid conference was held on 19th February 2021, 12.00 PM by the following committee members of the Purchase committee which was constituted for Notice Inviting Tender No- **MLSU/UCC/RUSA/2021/30** Dated: 16.02.2021.

The grievance & inputs on some technical issues were received from both physically present vendors as well as through email which were discussed in detail by the committee members. After due consideration the committee recommends the following changes in technical specification based on representation from large number of vendors and a view to enhance maximum participation.

Grievance received for Network Items and Services		
S. No.	Grievance received	Committee Remarks & Corrigendum Required
1.	"To establish a complete topology of university network some more items are required which are missing in the tender document. Hence to complete the network solution it was advised to add the following items in the current tender so that university network can be established in proper manner."	New Items to be added into the Tender according to the grievance/ suggestion received in pre bid conference. **Note: As per the rules, we cannot modify in the BOQ uploaded earlier on the website. We are enclosing updated BOQ with this corrigendum. You are requested to submit rates of the items in this BOQ on your letter head in hard copy in sealed envelope.** (*Annexure 1*)

NIB code- SUU2021A0124
UBN No.- SUU2021GLRC00209

The technical specification for above equipment stand modified. Rest of the grievance were discussed and rejected by the committee since they did not hold any merit and were reducing the quality desired.

University Computer Center

VIGYAN BHAWAN, BLOCK-A
MOHANLAL SUKHADIA UNIVERSITY
Udaipur-313001

The bidders are advised to take into account the following amendments before submission of their bids against this tender. This corrigendum will form integral part of tender and will be submitted duly signed and stamped along with bids.

All other specification and terms and conditions of the tender remain unchanged.

Director
University computer Center
Vigyan Bhawan Block-A
MLSU, Udaipur (RAJ.)

ANNEXURE 1

FORM NO. 5

SAMPLE FORMAT OF BOQ (FINANCIAL BID)

IMPORTANT: Bidders are requested to Bid their rates in BOQ_xx.xls available with E-tender at

eproc.rajasthan.gov.in

Tender Inviting Authority: *Director, University Computer Center, Mohanlal Sukhadia University, Udaipur – 313001*

Name of Work: *"Supply Installation & Commissioning of Network Items and Services"* **as per specifications given in the Technical Bid**

Bid No: **CS/VB/MLSU/2020-21/1013   Dated-16.02.2021**

Name of the Bidder/ Bidding Firm/ Company:

PRICE SCHEDULE

(This BOQ template must not be modified/ replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Value only)

S. No	Item Description	Quantity	Units	Basic Rate in figures to be entered by the Bidder Rs. P	Total Amount with all Taxes in Rs P	Total Amount in words
1	2	4	5	13	53	55
1.	Network Item: UTP CABLE 1 Box Yellow coller (305 meters): as per Technical Bid	1	nos			
2.	Network Item: ST-LC SM PATCH CORD): as per Technical Bid	1	nos			
3.	Network Item: SC-LC SM PATCH CORD): as per Technical Bid	1	nos			

4.	Network Item: ST-SC SM PATCH CORD): as per Technical Bid	1	nos			
5.	Network Item: SC-LC MM PATCH CORD): as per Technical Bid	1	nos			
6.	Network Item: ST SM PIGTAIL): as per Technical Bid	1	nos			
7.	Network Item: SC SM PIGTAIL): as per Technical Bid	1	nos			
8.	Network Item: SC MM PIGTAIL): as per Technical Bid	1	nos			
9.	Network Item: SC SM COUPLER (Simplex)): as per Technical Bid	1	nos			
10.	Network Item: SC SM COUPLER (Duplex)): as per Technical Bid	1	nos			
11.	Network Item: SC MM COUPLER): as per Technical Bid	1	nos			
12.	Network Item: RJ-45 CONNECTOR): as per Technical Bid	1	nos			
13.	Network Item: Single I/O box): as per Technical Bid	1	nos			
14.	Network Item: Dual I/O box): as per Technical Bid	1	nos			
15.	Network Item: Fiber Cable Single Mode): as per Technical Bid	1	nos			
16.	Network Item: Fiber Cable Single Mode: as per Technical Bid	1	nos			
17.	Network Item: Fiber Cable Multi Mode): as per Technical Bid	1	nos			
18.	Network Item: Fiber Cable Jointer Box (Lightweight, Airtight & waterproof)): as per Technical Bid	1	nos			

19.	Network Item: UTP patch cord 1 feet (0.5M)): as per Technical Bid	1	nos			
20.	Network Item: UTP patch cord 1 meter): as per Technical Bid	1	nos			
21.	Network Item: UTP patch cord 2 meter): as per Technical Bid	1	nos			
22.	Network Item: UTP patch cord 3 meter): as per Technical Bid	1	nos			
23.	Network Item: PATCH PANEL 24 PORT): as per Technical Bid	1	nos			
24.	Network Item: 6U RACK): as per Technical Bid	1	nos			
25.	Network Item: 9U RACK): as per Technical Bid	1	nos			
26.	Network Item: 27U RACK): as per Technical Bid	1	nos			
27.	Network Item: 6 PORT LIU Unloaded): as per Technical Bid	1	nos			
28.	Network Item: 12 PORT LIU Unloaded): as per Technical Bid	1	nos			
29.	Network Item: Cable manager PVC): as per Technical Bid	1	nos			
30.	Network Item: 24 Port Distribution Switch): as per Technical Bid	1	nos			
31.	Network Item: 8 Port PoE Switch): as per Technical Bid	1	nos			
32.	Network Item: 24 Port L3 fiber Switch): as per Technical Bid	1	nos			
33.	Network Item: 24 Port Distribution 10G Switch): as per Technical Bid	1	nos			
34.	Network Item: SFP MODULE (SM)): as per Technical Bid	1	nos			

35.	Network Item: SFP + 10G MODULE (SM)): as per Technical Bid	1	nos			
36.	Network Item: Indoor wireless AP Gigabit LAN(PoE Supported) AC 1750 Mbps): as per Technical Bid	1	nos			
37.	Network Item: Indoor wireless AP Gigabit LAN(PoE Supported) AC 1100 Mbps): as per Technical Bid	1	nos			
38.	Network Item: Outdoor wireless AP Gigabit LAN(PoE Supported) AC 1100 Mbps): as per Technical Bid	1	nos			
39.	Network Item: RF device for point to point / multipoint connectivity): as per Technical Bid	1	nos			
40.	Networking Services: as per Technical Bid	1	nos			
41.	**LC-LC SM PATCH CORD:** • PATCH CORD LC-LC SM DUPLEX Type=Duplex 3.0mm • Length=1 m • Connector Type=LC-LC • Insertion Loss =<0.2 dB • MAX<0.3Db	1	nos			
42.	**LC SM PIGTAIL:** • LC pigtail SM Simplex • Type= Simplex 3.0mm • Length=1 m • Connector Type=LC • Insertion Loss =<0.2 dB ,MAX<0.3dB	1	nos			
43.	**LC SM COUPLER (SIMPLEX):** LC Single Mode Simplex Fiber Adapter	1	nos			
44.	**LC SM COUPLER (DUPLEX):** LC Single Mode Duplex Fiber Adapter	1	nos			
45.	**4U RACK:** Rack With Cable manager, Fan and PDU. The	1	nos			

	Rack Should be wall mount 4U in height and Conforms to DIN 41494 or equivalent ISO Standards					
46.	**LIU SC Plate Simplex**	1	nos			
47.	**LIU SC Plate Duplex**	1	nos			
48.	**Indoor wireless AP LAN(PoE Supported) AC 300 Mbps** **1. Standard:** The Access Point should be compliant with IEEE 802.3ab, IEEE 802.3u, IEEE 802.3az IEEE 802.11a/b/g/n/ac Wave 2 wireless interface **2. Interface and antenna:** Minimum 2 x internal 3dBi antennas using both the antennas min transmit power of AP should be at least 20 dbm for 2.4 GHz **3. Security & Certification:** **a)** WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WEP 64/128-bit encryption, SSID broadcast disable, MAC address access control, Network Access Protection (NAP), Internal RADIUS server, **b)** Telnet • Secure Telnet (SSH) • Web (HTTP), Secure Socket Layer (SSL), Traffic control, SNMP v1/v2c/v3 , support Software Wi-Fi Manager, and locally with AP Array **c)** FCC, CE, UL,	1	nos			
49.	**I/O keystone Jack: a)** RJ45 Jack: Housing: ABS+PC, UL 94V-0, with optional color Contact Bracket: PC, UL 94V-2, transparent **b)** RJ45 Jack Contact: Material: Phosphor Bronze with Nickel	1	nos			

	Plated Finish: 50 micro-inch Gold Plated on plug contact area IDC: Housing: PC + Glass Fiber, UL 94V-2 Terminal: Phosphor Bronze, Tin Plated IDC CAP: ABS, UL 94V-0					
50.	**I/O FACE PLATE (SIMPLEX):** I.D. Plate: Polycarbonate, UL94V-2 transparent color. Face plate: ABS, UL94-HB, with white color. Dust Cover: ABS, UL94-HB, with white color Screw: M3.5XL25.0mm Directive: RoHS certified 86 x 86 mm, Single Faceplate Accepts one Keystone Jack	1	nos			
51.	**I/O BACK PLATE:** Box: ABS, UL94-HB, with white color. Screw Nut: M3.5xL7.0mm Screw: M3.5X25.0x7.0 mm Screw: M3.5X19.0X7.5mm Directive: RoHS certified	1	nos			
52.	**I/O FACE PLATE (DUPLEX):** I.D. Plate: Polycarbonate, UL94V-2 transparent color. Face plate: ABS, UL94-HB, with white color. Dust Cover: ABS, UL94-HB, with white color Screw: M3.5XL25.0mm Directive: RoHS certified 86 x 86 mm, Dual Faceplate accepts two Keystone Jacks	1	nos			
53.	**I/O FACE PLATE (QUAD):** 86*86 mm, Quad Faceplate accepts four keystone jacks I.D. Plate: Polycarbonate, UL94V-2 transparent color. Face plate: ABS, UL94-HB, with white color. Dust Cover: ABS, UL94-HB, with white color Screw: M3.5XL25.0mm Directive: RoHS certified	1	nos			
54.	**CRIMPING TOOL:** 7.5 inch steel construction body • Weight:	1	nos			

	280 gms • Suitable for 22-26 AWG wires					
55.	**CABEL TESTER:** Visible LED status display. • Check the RJ11& RJ45 Cable quickly. • Automatically runs all tests and checks for continutiy, open,shorted and crossed wire pairs. • Slow and fast test switch.	1	nos			
56.	**IO PUNCH DOWN TOOL:** Color-coded yellow handle on the cut side of the tool reduces the chance for termination errors. • Adjustable low and high impact force settings allow the tool to be set according to the user's preference • Reversible blades for seating/cut or seating only for jumper wires. • Spare blade storage in the handle reduces installation time when a replacement blade is required • Blades are made from heat-treated, high-carbon tool steel with a black-oxide, rust-resistant finish and a precision-ground cutting surface for long life • Simplified internal impact mechanism eliminates jamming for longer, trouble-free service	1	nos			
57.	**8 Port Switch 10/100/1000 UNMANAGED: a)** 1000BASE t interface :-8, switching capacity :- 16GBPS,DIMENSION 130*79*22MM, WEIGHT 0.13KGS,OPERATION TEMPRATURE 0¬40°C **b)** STORAGE TEMPRATURE :- - 10 ~ 70 °C, OPERATION HUIMIDITY 0% ~ 95% RH,POWER INPUT :AC : 100	1	nos			

	~ 240 V,FALSH MEMORY SIZE :- 64Kbytes, FANLESS **c)** ENERGY EFFICIENENCY ETHERNET **d)** POWER SAVING BY CABEL LENGTH **e)** POWER SAVING BY LINK STATUS **f)** SURGE LIGHTING PROTECTION (ALL ETHERNET PORTS)1KV **g)** AIR DISCHARGE 8KV **h)** PORT COUNT :- 1000Base-T Interface x 8					
58.	**5 Port Switch 10/100/1000 UNMANAGED: a)** 1000BASE t interface :-5, switching capacity :- 10GBPS,DIMENSION 100*98*28MM, WEIGHT 0.26KGS,OPERATION TEMPRATURE 0¬40°C **b)** STORAGE TEMPRATURE :- - 10 ~ 70 °C, OPERATION HUIMIDITY 0% ~ 95% RH,POWER INPUT :AC : 100 ~ 240 V,FALSH MEMORY SIZE :- 64Kbytes, FANLESS **c)** ENERGY EFFICIENENCY ETHERNET **d)** POWER SAVING BY CABEL LENGTH **e)** POWER SAVING BY LINK STATUS **f)** SURGE LIGHTING PROTECTION (ALL ETHERNET PORTS)1KV	1	nos			

	g) AIR DISCHARGE 8KV **h)** PORT COUNT :- 1000 Base-T Interface x 5					
59.	**16 Port Switch 10/100/1000 UNMANAGED: a) NO OF PORTS :-** 16 10/100/1000 Mbps ports **b)** Standards:- • IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Quality of Service (QoS) • IEEE 802.3x Flow Control supported for full-duplex • Auto-negotiation • IEEE 802.3az Energy-Efficient Ethernet (EEE) **c)** Data Transfer Rates:- • Ethernet: 10 Mbps/20 Mbps (half-duplex/full-duplex) • Fast Ethernet: 100 Mbps/200 Mbps (half-duplex/full-duplex) • Gigabit Ethernet: 2000 Mbps (full-duplex) **d)** Power saving by link status and cable length **e)** Switching Capacity:32 GBPS **f)** Packet Filtering/Forwarding Rate:- • Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit Ethernet: 1,488,000 pps per port **g)** STORAGE TEMPRATURE :- - 10 ~ 70 °C, OPERATION HUIMIDITY 0% ~ 95% RH,POWER INPUT :AC : 100 ~ 240 V **h)** MTBF:- 1,882,372 hours CERTIFICATION UL FCC	1	nos			

| 60. | **24 Port Switch 10/100/1000 UNMANAGED:**

a) **NO OF PORTS :-** 24 10/100/1000 Mbps ports
b) Standards:- • IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Quality of Service (QoS) • IEEE 802.3x Flow Control supported for full-duplex • Auto-negotiation • IEEE 802.3az Energy-Efficient Ethernet (EEE)
c) Data Transfer Rates:- • Ethernet: 10 Mbps/20 Mbps (half-duplex/full-duplex) • Fast Ethernet: 100 Mbps/200 Mbps (half-duplex/full-duplex) • Gigabit Ethernet: 2000 Mbps (full-duplex) , Power saving by link status and cable length
d) Switching Capacity:48 GBPS
e) Packet Filtering/Forwarding Rate:- • Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit Ethernet: 1,488,000 pps per port
f) STORAGE TEMPRATURE :- - 10 ~ 70 °C, OPERATION HUIMIDITY 0% ~ 95% RH,POWER INPUT :AC : 100 ~ 240 V
g) MTBF:- 863,100 hours , CERTIFICATION UL FCC | 1 | nos | | | |
| 61. | **Media Convertor Singal Mode supported (SC & RJ-45 Port) 1000MBPS:**

• Converts 1000 Base - T to | 1 | nos | | | |

	1000 Base – LX
	• Fiber wavelength:-
	  1300NM
	• max distance:-10KM
	• Ports:- One RJ - 45 and
	  two Fiber port (SC type
	  connector)
	• MODE:- SINGLE MODE
	• Operating Temperature:-
	  0° C to 50° C
	• Storage Temperature:- -
	  20° C to 70° C
	• MTBF (hours):-
	  10,0000hours
	• Operating Voltage:- AC
	  240V or DC +5V					

62.	**Media Convertor MULTIMODE Mode supported (SC & RJ-45 Port) 1000MBPS:**
	
	• Converts 1000 Base - T to
	  1000 Base – SX
	• Fiber wavelength:-850NM
	• max distance:-550M
	• Ports:- One RJ - 45 and
	  two Fiber port (SC type
	  connector
	• MODE:- MULTI- MODE
	• Operating Temperature:-
	  0° C to 50° C
	• Storage Temperature:- -
	  20° C to 70° C
	• MTBF (hours):-
	  10,0000hours
	• Operating Voltage:- AC
	  240V or DC +5V
		1	nos			

63.	DIGITAL CABEL TESTER	1	nos			
64.	CABEL TAGGING MACHINE	1	nos			
65.	**24 port sfp switch l3 switch**	1	nos			

	manageable switch a) 24 x SFP ports • 2 x 10GBASE-T ports • 4 x 10G SFP+ ports b) DPS-500A c) 10/100/1000BASE-T RJ-45 port for out-of-band CLI management consol port d) 10/100/1000BASE-T RJ-45 port for out-of-band IP management e) stacking port :- 4 f) USB Ports • 1 x USB 2.0 Type A port g) Switching Capacity • 168 Gbps 64-Byte Packet Forwarding Rate • 125 Mpps h) Packet Buffer Memory • 2 MB i) MTBF (Hours):487,153 hours j) Power Input • 100 to 240 VAC, 50 to 60 Hz k) Operation Temperature • 0 to 50 ˚C (32 to 122 °F) l) Storage Temperature • -40 to 70 ˚C (-40 to 158 °F) m) Operating Humidity • 10% to 90% RH n) Storage Humidity • 5% to 90% RH o) Emission (EMI) • FCC Class A, CE Class A, VCCI Class A, IC, RCM, BSMI, CCC p) Safety • CB, CUL, BSMI, CCC					
Total in Figures						
Quoted Rate in words						