Management Development Institute Gurgaon

Date: 20/09/2024

Addendum-2:

Tender Ref. No.: MDIG/CC/2024-25/Network-NAB-GH/08 D**ate:** 24.08.24

Tender Sub: Invitation of sealed quotations from reputed manufacturers or their authorized representatives for Network and WiFi at New Academic Block and Hostel (s).
Please find below clarifications issued in the form of Addendum to the Tender. Kindly submit signed and stamped copy of this Addendum along with technical bid.

S. No.	Page No./ Clause No./ Sr.No.	Existing Description/ Query	Revised Description
1.	Page 6 Clause 39	**Payment Terms:** a. **70 percent of payment** of total Purchase Order value after successful supply of items required for project and generation of the invoice for the same. b. **25 percent of payment** of total Purchase Order value after generation of invoice post successful delivery, installation & commissioning of the project, handing over of warranty related papers of hardware and initiation of warranty period if vendor performed satisfactorily. c. **Rest 5 percent of Purchase Order Value** will be retained as security deposit. The amount will be refunded after the initial warranty & service period of five years is over, only if the project is executed satisfactorily as well as service under standard warranty service period of three years are conducted satisfactorily as per MDI expectation. If contract with vendor during execution of project or during warranty period is terminated prematurely by vendor or service rendered was not satisfactory as per MDI expectations, then security deposit amount will be forfeited. d. EMD of successful bidder would be released at the time of 1st payment without any interest.	**Payment Terms:** e. **70 percent of payment** of total Purchase Order value after successful supply of items required for project and generation of the invoice for the same. f. **25 percent of payment** of total Purchase Order value after generation of invoice post successful delivery, installation & commissioning of the project, handing over of warranty related papers of hardware and initiation of warranty period if vendor performed satisfactorily. g. **Rest 5 percent of Purchase Order Value** will be retained as security deposit. The amount will be refunded after the initial warranty & service period of five years is over, only if the project is executed satisfactorily as well as service under warranty period of five years are conducted satisfactorily as per MDI expectation. If contract with vendor during execution of project or during warranty period is terminated prematurely by vendor or service rendered was not satisfactory as per MDI expectations, then security deposit amount will be forfeited. h. EMD of successful bidder would be released at the time of 1st payment without any interest.
2.	Page 13, Part B Minimum Qualification Criteria, S.No.	**Warranty and Support** All products should be quoted with at least 3-year warranty and 2-year AMC from OEM with next day business support.	**Warranty and Support** All products should be quoted with at least **5-year onsite warranty from OEM** with next day business support.

	10	The Vendor shall provide comprehensive Support for all the equipment's listed in the document for a period of 3 years and AMC for 2-years.	The Vendor shall provide comprehensive Support for all the equipment's listed in the document for a period of 5 years.
3.	Page 14, Part C, Other specific requirements from OEMs	All products should be quoted with at least 3-year warranty plus 2-year AMC and next day business support.	All products should be quoted with at least 5-year onsite warranty from OEM and next day business support.
4.	Page 16, Part B Technical Evaluation, S.No. 8	All products should be quoted with at least 3-year warranty and 2-year AMC from OEM with next day business support	All products should be quoted with at least 5-year onsite warranty from OEM with next day business support
5.	Page 18, Section D, Format-1, s.no.16	Agree to Warranty & Support All products should be quoted with at least 3-year warranty and 2-year AMC from OEM with next day business support. The Vendor shall provide comprehensive Support for all the equipment's listed in the document for a period of 3 years and AMC for 2-years.	Agree to Warranty & Support All products should be quoted with at least 5-year warranty from OEM with next day business support. The Vendor shall provide comprehensive Support for all the equipment's listed in the document for a period of 5 years. Yes ❑ / No ❑
6.	Page 21-22 Section D, Format-1, s.no.24	Agree to Payment Terms a. 70 percent of payment of total Purchase Order value after successful supply of items required for project and generation of the invoice for the same. b. 25 percent of payment of total Purchase Order value after generation of invoice post successful delivery, installation & commissioning of the project, handing over of warranty related papers of hardware and initiation of warranty period if vendor performed satisfactorily. c. Rest 5 percent of Purchase Order Value will be retained as security deposit. The amount will be refunded after the initial warranty & service period of three years is over, only if the project is executed satisfactorily as well as service under standard warranty service period of three years are conducted satisfactorily as per MDI expectation. If contract with vendor during execution of project or during warranty period is terminated prematurely by vendor or service rendered was not satisfactory as per MDI expectations, then security deposit amount will be forfeited.	Agree to Payment Terms: a. 70 percent of payment of total Purchase Order value after successful supply of items required for project and generation of the invoice for the same. b. 25 percent of payment of total Purchase Order value after generation of invoice post successful delivery, installation & commissioning of the project, handing over of warranty related papers of hardware and initiation of warranty period if vendor performed satisfactorily. c. Rest 5 percent of Purchase Order Value will be retained as security deposit. The amount will be refunded after the initial warranty & service period of five years is over, only if the project is executed satisfactorily as well as service under warranty period of five years are conducted satisfactorily as per MDI expectation. If contract with vendor during execution of project or during warranty period is terminated prematurely by vendor or service rendered was not satisfactory as per MDI expectations, then security deposit amount will be forfeited. d. EMD of successful bidder would be released at the time of 1st payment without any interest. Yes ❑ / No ❑

7.	Page 26-35 Section E Scope of Work, Schedule of Requirement and BoM	Page 26-35 Section E, Scope of Work, Schedule of Requirement and BoM	See updated scope and Bills of Material in **Annexure-Add2-I**
8.	Page 36-43 Format-6 Financial Bid	Page 26-43 Format-6 Financial Bid	See Format-6 updated in **Annexure-Add2-II**

Section E
Scope of Work, Schedule of Requirement and BoM

A. Brief Scope of Work

The scope of work for SITC of Network and WiFi in new Academic Block and Girls Hostel of MDI-Gurgaon Campus shall include site survey, site preparation, solution design, supply of all material as per detailed specifications in Section E, laying / installation, all electrical, all civil works required for & incidental to the project, configuration, testing & certification, integration of new Academic Block and Girls Hostel network to the existing network of MDI Gurgaon Campus, migration & commissioning, documentation, project management, supply of spares, warranty and maintenance etc. complete in all respect as specified in the various technical specs.

1. The bidder will carry out the work as specified by MDI Gurgaon and will be responsible for total system integration and execution of project.
2. The bidder will try & reuse the item available to the extent possible subject to its functionality & feasibility.
3. The bidder will carry out the feasibility sites surveys, prepare the drawings, laying & cable route plans, rack locations, node placement, Wi-Fi access points placement, etc. for the Wi-Fi enabled Campus Network infrastructure in consultation with the Institute
4. The bidder will design, supply, install, commission, integrate and maintain during warranty of Wi-Fi enabled Campus Network & other IT Infrastructure as per requirement in conformity with Schedule of Requirement (any subset of items & quantities) & Technical Specifications (Section E) and terms & conditions of the tender.
5. The bidder will ensure to install the supplied systems and make it operational on the network and provide warranty & onsite support for five years including repair, splicing etc network installations including fiber
6. The bidder shall deliver and implement the technologies in conjunction with a set of best practices guidelines & industry standards.
7. The bidder will ensure smooth integration of the offered equipment with the existing equipment/network at MDI Gurgaon.
8. The bidder will provide user manual to end-user detailing operations of the equipment and onsite user level training at the time of installation.
9. The bidder will submit a detailed implementation plan after consultation with Institute within one week from the date of purchase order.
10. The Bidder has to ensure that during the execution of the project they do not damage or disrupt the existing services under and above the ground besides restoring the site in the same condition as was before SITC of network
11. The Bidder has to comply with the security and other policy of the user organization
12. The bidder would not disclose the network design, layout and configuration to any other third party unrelated to the network project.
13. The methodology of conduiting & cabling and installation work (wherever required), to be adopted, has to ensure minimum damage to the existing finish and no loss to

the aesthetic beauty of the floors, Walls and ceiling (concrete as well as false ceiling) Any damage to the existing flooring / walls/ ceiling etc. shall be made good by the bidder.

14. The bidder shall organize technical training about the Wi-Fi Campus Network equipment after installation and commissioning has been completed. Training will be provided on no additional cost for 2 days at the place of installation. All the training material will be provided by the bidder.
15. The bidder will ensure the availability of services from professionally qualified team during implementation of the project and to provide the required on-site warranty for five years.
16. The Bidder will be liable for any hardware and software up-gradation for maintenance without any extra cost during five year warranty.
17. On completion of the work the bidder shall submit the detailed diagram/drawings & documentation of the project to MDI Gurgaon, which will be submitted to Institute along with the bills.

B. **Testing & Certification**

1. The SYSTEM shall be subjected to inspection at various stages during implementation by MDI representative for compliance with various requirements spelt out in this document / network design document / various other MDI approved documents, good workmanship, adherence to good engineering practice, safety requirements etc. The details of stage-inspection by MDI shall be finalized during document approval. The SYSTEM INTEGRATOR shall carry out the various test / checks as per the test plan and offer the same for witnessing by MDI representative.
2. The final inspection on the SYSTEM shall include the following as a minimum
   a. Final checks / tests for physical completion of the implementation as per this document and other MDI approved documents.
   b. Verification of the SYSTEM configurations to ensure implementation as per this document network design document / various other MDI approved documents.
   c. Functional Tests / checks on the SYSTEM to ensure that the functional requirements
3. All the above tests / checks shall be carried out by the SYSTEM INTEGRATOR internally; Internal Test Reports / Certificates shall be furnished to MDI for verification and shall be demonstrated to MDI representatives to verify compliance.
4. The SYSTEM INTEGRATOR shall integrate the SYSTEM supplied and installed with the existing infrastructure to offer seamless operation.

C. **Documentation**
   1. The SYSTEM INTEGRATOR shall submit as-built / as-laid documents of the networking infrastructure implemented as a part of the project.

2. The documents shall be kept updated throughout five year warranty period the maintenance period with appropriate version control. The documentation includes, but not limited to the following:
    a. Overall logical network diagram
    b. Physical layout plan of cabling
    c. Physical layout plan of the racks
3. Fiber and UTP cable termination details including ferruling, numbering details on the I/O, jack panel and patch cables
4. Device wise configuration details of active components deployed in the network.
5. Comprehensive Inventory of equipment/ devices / components deployed in the network.
6. Penta Scanning Report (if required)
7. OTDR Scanning Report (if required)
8. Heat Map Reports of WiFi installations.
9. All SYSTEM INTEGRATOR prepared documents shall be submitted as both in soft copies and in hard copies. The soft copies shall be submitted in the native format.

D. **Training**

The handover training shall broadly cover the network design, administration, operation and management of all switches and Wi-Fi access points.

E. **Bills of Material**

S. No.	Description	Qty*	Make / Model	Compliance (Yes/No)	Deviation (if any)
A. Switching					
1	**Extreme 7520-48Y Switch** - Ships with two AC front-to-back airflow power supplies, six front-to-back airflow fans, one 4-post rack mount kit. Supports 48 x 1G/10G/25G fiber ports and 8 x 40G/100G fiber ports	2		Yes ❏ / No ❏	
	EW NBD AHR 7520-48Y-8C-AC-F [Term: 5 Year]	2			
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	4			
	100G AOC QSFP28 10m TAA MSA P/N EQPC1HA0100C0100.	2			
2	**Extreme 5520 Switch** 24 1Gb/10Gb SFP+ ports 2 stacking/QSFP28 1 unpopulated VIM slot includes 2 fan modules 2 unpopulated modular PSU slots.	4		Yes ❏ / No ❏	
	EW NBD AHR 5520-24X [Term: 5 Year]	4			
	350 Watt AC Power Supply Module - Front to Back airflow	8			
	Pwr Cord,10A,BS546,IEC320-C13	8			

	5520 Versatile Interface Module with **four** 25GbE SFP28 ports MACsec capable supported on Extreme Switching 5520	4		
	100G Passive DAC QSFP28 0.5M	4		
3	**Extreme 5520 Switch** 12 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 36 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 un-pop VIM slot MACsec capable 3 fan modules 2 unpopulated modular PSU slots.	7	Yes ❑ / No ❑	
	EW NBD AHR 5520-12MW-36W [Term: 5 Year]	7		
	2000 Watt AC PoE Power Supply Module - Front to Back airflow. Supported on Extreme Switching X465 VSP4900 and 5520	14		
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	14		
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	7		
4	**Extreme 5720 Switch** 48 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes fan modules 2 unpopulated modular PSU slots.	5	Yes ❑ / No ❑	
	EW NBD AHR 5720-48MW [Term: 5 Year]	5		
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	10		
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	10		
	5720 Versatile Interface Module with 6 25GbE SFP28 ports, MACsec capable.	5		
5	**Extreme 5720 Switch** 24 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes fan modules 2 unpopulated modular PSU slots.	8	Yes ❑ / No ❑	
	EW NBD AHR 5720-24MW [Term: 5 Year]	8		
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	16		
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	16		
	5720 Versatile Interface Module with 6 25GbE SFP28 ports, MACsec capable.	8		
6	**Extreme 5520 Switch** 48 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	2	Yes ❑ / No ❑	
	EW NBD AHR 5520-48W [Term: 5 Year]	2		
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	4		
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	4		
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	2		

7	**Extreme 5520 Switch** 24 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	10	Yes ❏ / No ❏	
	EW NBD AHR 5520-24W [Term: 5 Year]	10		
	715 Watt AC PoE Power Supply Module - Front to Back airflow	20		
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	20		
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	10		
8 (a)	**Extreme 5320 Switch** 16 10/100/1000Base-T PoE+ ports 4x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	11	Yes ❏ / No ❏	
	EW NBD AHR 5320-16P-4XE [Term: 5 Year]	11		
	Pwr Cord,10A,BS546,IEC320-C13	11		
	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	44		
	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	44		
8 (b)	**Extreme 5320 Switch** 48 10/100/1000Base-T PoE+ ports 4x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	2		
	EW NBD AHR 5320-16P-4XE [Term: 5 Year]	2		
	Pwr Cord,10A,BS546,IEC320-C13	2		
	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	8		
	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	8		
9	**Extreme 5520 Switch** 24 10/100/1000BASET FDX/HDX 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 2 fan modules 2 unpopulated modular PSU slots.	12	Yes ❏ / No ❏	
	EW NBD AHR 5520-24T [Term: 5 Year]	12		
	350 Watt AC Power Supply Module - Front to Back airflow	24		
	Pwr Cord,10A,BS546,IEC320-C13	24		
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	12		
10	**Extreme 5520 Switch** 48 10/100/1000BASET FDX/HDX 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	14	Yes ❏ / No ❏	
	EW NBD AHR 5520-48T [Term: 5 Year]	14		
	350 Watt AC Power Supply Module - Front to Back airflow	28		

				Yes/No	
	Pwr Cord,10A,BS546,IEC320-C13	28			
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	14			
B. Transceivers & DAC Cables					
11	10 Gigabit Ethernet SFP+ module, 850nm, MMF 300m link, LC connector	2		Yes ❑ / No ❑	
12	25G Base SR SFP28 100m LC connector Multi-Mode	4		Yes ❑ / No ❑	
13	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	-116		Yes ❑ / No ❑	
14	40G LR4 QSFP+ 10km LC connector Single-Mode MSA P/N EQPT404LR4LCL100.	4		Yes ❑ / No ❑	
15	25G LR SFP28 10km LC connector Single-Mode MSA P/N ESPT251LR1LCL100.	12		Yes ❑ / No ❑	
16	100G Passive DAC QSFP28 0.5M	52		Yes ❑ / No ❑	
17	100G Passive DAC QSFP28 3m MSA P/N EQPC1HPC030C0100.	3		Yes ❑ / No ❑	
C. Wireless Solutions					
18	**HPE Aruba Networking AP-655 (RW)** Tri-radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	100		Yes ❑ / No ❑	
19	Aruba 5Y FC NBD Exch AP-65x TAA Campus SVC [for R7J43A]	100		Yes ❑ / No ❑	
20	HPE Aruba Networking AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	100		Yes ❑ / No ❑	
21	**HPE Aruba Networking AP-635 (RW)** Tri-radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	28		Yes ❑ / No ❑	
22	Aruba 5Y FC NBD Exch AP-635 SVC [for R7J27A]	28		Yes ❑ / No ❑	
23	HPE Aruba Networking AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	28		Yes ❑ / No ❑	
24	**HPE Aruba Networking AP-503H (RW)** Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP	228		Yes ❑ / No ❑	
25	Aruba 5Y FC NBD Exch AP-503H TAA SVC [for R3V37A]	228		Yes ❑ / No ❑	
26	HPE Aruba Networking AP-503H-MNT1 500H Series AP Kit with Single Wall-Box Mount Adapter	228		Yes ❑ / No ❑	
27	**HPE Aruba Networking AP-575 (RW)** TAA Dual Radio 2x2:2/4x4:4 802.11ax Integrated Omni Antennas Outdoor AP	17		Yes ❑ / No ❑	
28	Aruba 5Y FC NBD Exch AP-575 TAA SVC [for R4H32A]	17		Yes ❑ / No ❑	
29	**HPE Aruba Networking AP-270**-MNT-H2 Outdoor AP Flush Wall Mounting Bracket	17		Yes ❑ / No ❑	
30	HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	2		Yes ❑ / No ❑	
31	**HPE Aruba Networking 9240** (RW1) 4x SFP28 1x Expansion Slot Campus Gateway	2		Yes ❑ / No ❑	

32	Aruba 5Y FC NBD Exch 9240 Gateway SVC [for S0G71A]	2		Yes ❑ / No ❑
33	HPE Aruba Networking 9240 AOS8 Gold Capacity License E-LTU	2		Yes ❑ / No ❑
34	HPE Aruba Networking PSU-550-AC 550W AC Power Supply	2		Yes ❑ / No ❑
35	HPE Aruba Networking PC-AC-IN 250V/6A 1.8m C13 to IS1293 (IN) AC Power Cord	4		Yes ❑ / No ❑
36	HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	4		Yes ❑ / No ❑
37	HPE Aruba Networking MCR-HW-5K Mobility Conductor Hardware Appliance Support for up to 5K Devices	1		Yes ❑ / No ❑
38	Aruba 5Y FC NBD Exch MM-HW-5K SVC [for JY792A]	1		Yes ❑ / No ❑
39	HPE Aruba Networking LIC-AP Controller per AP Capacity License E-LTU	373		Yes ❑ / No ❑
40	Aruba 5Y FC SW Cntrl per AP Cpty E-L SVC [for JW472AAE]	373		Yes ❑ / No ❑
41	HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	2		Yes ❑ / No ❑
D (I) . Horizontal Cabling Subsystem - Data Nodes (Commscope)				
42 (I)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	53		Yes ❑ / No ❑
43 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For Rack end)	784		Yes ❑ / No ❑
44 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For User end)	784		Yes ❑ / No ❑
45 (I)	GigaSPEED X10D® 360GS10E Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 7 Feet (For Rack end)	131		Yes ❑ / No ❑
46 (I)	GigaSPEED® X10D 3091B ETL Verified Category 6A U/UTP Cable, white jacket, 4 pair count, 1000 ft (305 m) length, WE TOTE® box	28 box		Yes ❑ / No ❑
47 (I)	GigaSPEED X10D® 360GS10E Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 3 Feet (For CCTV end)	131		Yes ❑ / No ❑
48 (I)	2-Port Faceplate Shuttered Square Type	605		Yes ❑ / No ❑
49 (I)	Cat6A UTP, Information Outlet, Yellow (For, Rack end)	784		Yes ❑ / No ❑
50 (I)	Cat6A UTP, Information Outlet, Yellow (For, User end)	784		Yes ❑ / No ❑
51 (I)	GigaSPEED® X10D MGS600 Series Information Outlet, Red (For, Rack end)	131		Yes ❑ / No ❑
52 (I)	GigaSPEED® X10D MGS600 Series Information Outlet, Red (For, Camera end)	131		Yes ❑ / No ❑
53 (I)	Blank Insert for Jack Panel (Pack of 100)	6		Yes ❑ / No ❑
D (II) . Horizontal Cabling Subsystem - Data Nodes (R&M)				
42(II)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	40		Yes ❑ / No ❑

43 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For Rack end)	784		Yes ❑ / No ❑
44 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For User end)	784		Yes ❑ / No ❑
45 (II)	Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 7 Feet (For Rack end)	8		Yes ❑ / No ❑
46 (II)	ETL Verified Category 6A U/UTP Cable, white jacket, 4 pair count, 1000 ft (305 m) length, WE TOTE® box	16 box		Yes ❑ / No ❑
47 (II)	Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 3 Feet (For CCTV end)	8		Yes ❑ / No ❑
48 (II)	2-Port Faceplate Shuttered Square Type	482		Yes ❑ / No ❑
49 (II)	Cat6A UTP, Information Outlet, Yellow (For, Rack end)	784		Yes ❑ / No ❑
50 (II)	Cat6A UTP, Information Outlet, Yellow (For, User end)	784		Yes ❑ / No ❑
51 (II)	Information Outlet, Red (For, Rack end)	8		Yes ❑ / No ❑
52 (II)	Information Outlet, Red (For, Camera end)	8		Yes ❑ / No ❑
53 (II)	Blank Insert for Jack Panel (Pack of 100)	4		Yes ❑ / No ❑
E (I). Horizontal Cabling Subsystem - Wireless Nodes (Commscope)				
54 (I)	Category 6A U/UTP Cable, Outdoor, UV resistant, gray jacket, 4 pair count, 1000 ft (305 m) length, 4 pair count	8 box		Yes ❑ / No ❑
55 (I)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	33		Yes ❑ / No ❑
56 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 7 Feet (For Rack end)	524		Yes ❑ / No ❑
57 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 3 Feet (For Wireless end)	524		Yes ❑ / No ❑
58 (I)	2-Port Faceplate Shuttered Square Type	308		Yes ❑ / No ❑
59 (I)	Cat6A UTP, Information Outlet, Green (For, Rack end)	655		Yes ❑ / No ❑
60 (I)	Cat6A UTP, Information Outlet, Green (For, Wireless end)	655		Yes ❑ / No ❑
61 (I)	Surface Mount Box, Dual Port White	12		Yes ❑ / No ❑
62 (I)	Blank Insert for Jack Panel (Pack of 100)	2		Yes ❑ / No ❑
E (II). Horizontal Cabling Subsystem - Wireless Nodes (R&M)				
54 (II)	Category 6A U/UTP Cable, Outdoor, UV resistant, gray jacket, 4 pair count, 1000 ft (305 m) length, 4 pair count	8 box		Yes ❑ / No ❑
55 (II)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	33		Yes ❑ / No ❑

56 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 7 Feet (For Rack end)	524		Yes ❑ / No ❑	
57 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 3 Feet (For Wireless end)	524		Yes ❑ / No ❑	
58 (II)	2-Port Faceplate Shuttered Square Type	308		Yes ❑ / No ❑	
59 (II)	Cat6A UTP, Information Outlet, Green (For, Rack end)	655		Yes ❑ / No ❑	
60 (II)	Cat6A UTP, Information Outlet, Green (For, Wireless end)	655		Yes ❑ / No ❑	
61 (II)	Surface Mount Box, Dual Port White	12		Yes ❑ / No ❑	
62 (II)	Blank Insert for Jack Panel (Pack of 100)	2		Yes ❑ / No ❑	
F. Horizontal Cabling Subsystem - Fiber Nodes (For Lecture Hall) (Commscope / Panduit / R&M)					
63	2 Core, Armoured Drop Cable 9/125 µm SM-OS2, As per ITU-T G.652.D and G.657.A1(Bend Insensitive) Cable	3,300			
64	48F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	1			
65	24F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	1			
66	HFTP with 2 Nos. of LC Coupler	34			
G. Armoured Fiber Back Bone Cabling - OS2 SM (Commscope / Panduit / R&M)					
67	288-core Outside Plant Cable - ECCS Armor, FRLSZH Sheath, Loose-tube, Multitube, Gel-Free, 9/125 SM, OS2, 24 Tubes and each tube 12 Core.	2,500m		Yes ❑ / No ❑	
68	12-core Indoor / Outdoor FRLSZH , Gel-Free, 9/125 SM, OS2	3650m		Yes ❑ / No ❑	
69	288-fiber LC-Style, Singlemode , 19-inch, Rack mount Patch Panel Pre loaded with LC duplex SM adapter, 288 LC, SM OS2 Pigtails,Splice tray & Splice Protectors	2		Yes ❑ / No ❑	
70	4U sliding panel, accepts (16) splice cassettes, modules or adapter packs, providing up to 192 duplex LC ports	2		Yes ❑ / No ❑	
71	Splice Cassette, 24LC/UPC with internal shutters, OS2, with LC Style pigtails	24		Yes ❑ / No ❑	
72	Blank Adapter Pack, 4 Panels	2 pkt		Yes ❑ / No ❑	
73	Fiber Optic Splice Heat Shrink Protective Sleeves, 100-Pack	8		Yes ❑ / No ❑	
74	48F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	6		Yes ❑ / No ❑	
75	24F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	15		Yes ❑ / No ❑	
76	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	118		Yes ❑ / No ❑	
77	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 10 Mtr	16		Yes ❑ / No ❑	

78	Fiber Optic Splice Closure, Gel Cable sealing, four pre-installed 24-splice trays, IP 68 Rated.	7		Yes ❑ / No ❑
79	OM4 LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	4		Yes ❑ / No ❑
80	OM4 LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 15 Mtr	4		Yes ❑ / No ❑
H. Rack & Accessories				
81	42U Enclosure (Size 800 X 1000) Supply includes: with Front Perforated Single Doors - Rear perforated Double Door with standard top & bottom cover, Side Panels, Fan tray with 4 Fans, Castors, 2 Nos of Vertical Power Strip 5/15A -12 Sockets, Earth Straps, 05 Nos of Hardware Pkt (1 PKT of 20 Nos.)	9		Yes ❑ / No ❑
82	24U Closed Rack (Size 800 X 1000) Supply includes: with Front & Rear Doors, Side Panels, Fan tray with 4 Fans, 2 No. Horizontal six 5/15 Amp socket Power strip, 3 Nos of Hardware Pkt (1 PKT of 20 Nos.)	7		Yes ❑ / No ❑
83	2U Double Sided Horizontal Cable Manager (For Field Cables & Switches)	107		Yes ❑ / No ❑
I. Conduiting Items & Consumables				
84	40mm HDPE Pipe with Accessories	5700m		Yes ❑ / No ❑
85	50mm High Density Flexible Pipe with Accessories	230m		Yes ❑ / No ❑
86	40mm HDPE Pipe Coupler	190		Yes ❑ / No ❑
87	25mm PVC Conduit / Channel with Accessories	1,000m		Yes ❑ / No ❑
88	25mm High Density Flexible Pipe with Accessories	30m		Yes ❑ / No ❑
89	32mm PVC Conduit / Channel with Accessories	3200m		Yes ❑ / No ❑
90	32mm High Density Flexible Pipe with Accessories	150m		Yes ❑ / No ❑
91	PVC Gang Box , 3 X 3 inch	913		Yes ❑ / No ❑
92	Labels for 4-Pair Patch Cords (56 labels per sheet)	64 sheets		Yes ❑ / No ❑
93	PVC Tube Printed Ferrule	3224		Yes ❑ / No ❑
94	PVC Cable Tie 8 Inch (Pkt - 100 Nos)	450		Yes ❑ / No ❑
95	Mettalic Cable Tie (Pkt - 100 Nos)	27		Yes ❑ / No ❑
96	Fiber Identification Tags	130		Yes ❑ / No ❑
97	Fiber Route Marker (Post Type with Reflector)	50		Yes ❑ / No ❑
98	Manhole / Chamber (Max. depth -1000mm)	25		Yes ❑ / No ❑
99	Velcro Cable Tie	175m		Yes ❑ / No ❑

100	Outdoor Box	12		Yes ❏ / No ❏	
101	Velcro Cable Tie, 20mm x 200mm Black (Pkt of 100)	13 pkt		Yes ❏ / No ❏	
J. Services					
102	UTP Cable Segregation, Identification, Testing & Ferruling Charges	1555		Yes ❏ / No ❏	
103	UTP Cable Laying Charges (upto a height of 4 mtr. Maximum)	10980m		Yes ❏ / No ❏	
104	2 Core Fiber Cable Laying Charges	3,300m		Yes ❏ / No ❏	
105	12 Core Fiber Cable Laying Charges	3650m		Yes ❏ / No ❏	
106	288 Core Fiber Cable Laying Charges	2,500m		Yes ❏ / No ❏	
107	UTP Termination for both ends, Labeling, Testing ~~Testing, Scanning~~, Jack Panel, Face Plate Fixing Charges	1555		Yes ❏ / No ❏	
108	Fiber Core Preparation for Splicing & Fiber Splicing Charges	1,532		Yes ❏ / No ❏	
109	Fiber Scanning Charges (OTDR)	766		Yes ❏ / No ❏	
110	Fiber LIU / Fiber Enclosure / Fiber Route Marker Installation Charges	82		Yes ❏ / No ❏	
111	Fiber Window Cut Charges	8		Yes ❏ / No ❏	
112	Closed Rack Installation Charges	16		Yes ❏ / No ❏	
113	40mm HDPE Pipe Installation Charges	5700m		Yes ❏ / No ❏	
114	50mm High Density Flexible Installation Charges	230m		Yes ❏ / No ❏	
115	25mm PVC Conduit / Channel Fixing on Wall Charges	1,000m		Yes ❏ / No ❏	
116	25mm High Density Flexible Fixing on Wall Charges	30m		Yes ❏ / No ❏	
117	32mm PVC Conduit / Channel Fixing on Wall Charges	3200m		Yes ❏ / No ❏	
118	32mm High Density Flexible Fixing on Wall Charges	150m		Yes ❏ / No ❏	
119	PVC Gang Box Fixing on Surface Charges	913		Yes ❏ / No ❏	
120	Existing Network Rack Revamping Charges	2		Yes ❏ / No ❏	
121	Manhole / Chamber Installation Charges	25		Yes ❏ / No ❏	
122	SITC of Switches including configuration, migration (old to new setup) and integration with existing network	lumpsum		Yes ❏ / No ❏	
123	SITC of WIFi Access Points including configuration (old to new setup), migration and integration with existing network	lumpsum		Yes ❏ / No ❏	

124	Soft / Hard Digging & Re-filling / Digging in RCC ~ Road Cutting & Re-filling / Horizontal Directional Drilling Charges NOTE: Only Raw filling / finishing is considered for any opening or access made for HDD machine or for any other access needed while executing as per assigned SOW.	2,300m		Yes ❑ / No ❑
125	Installation, testing, commissioning, migration (old setup to new), integration with old network etc for the project including documentation etc	lumpsum		Yes ❑ / No ❑
126	Any other charges incidental to completion of the project including consumables, tools, cables, connectors etc	lumpsum		Yes ❑ / No ❑
127	Penta Scanning per node	1555		Yes ❑ / No ❑

Format-6-Updated
Financial Bid
(To be submitted on Letterhead in a separate sealed envelope)

Quote for SITC of Network and WiFi at New Academic Block and Girls Hostel at MDI-Gurgaon Campus with 5-year warranty and support at MDI Gurgaon

*Qty may increase / decrease/ may be zero at the time of placing the order

S. No.	Description	Qty*	Unit Price Excl. GST (INR)	Total Price excl. GST (INR)	GST Rate	Total Price incl. GST (INR)
A. Switching						
1	**Extreme 7520-48Y Switch** - Ships with two AC front-to-back airflow power supplies, six front-to-back airflow fans, one 4-post rack mount kit. Supports 48 x 1G/10G/25G fiber ports and 8 x 40G/100G fiber ports	2				
	EW NBD AHR 7520-48Y-8C-AC-F [Term: 5 Year]	2				
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	4				
	100G AOC QSFP28 10m TAA MSA P/N EQPC1HA0100C0100.	2				
2	**Extreme 5520 Switch** 24 1Gb/10Gb SFP+ ports 2 stacking/QSFP28 1 unpopulated VIM slot includes 2 fan modules 2 unpopulated modular PSU slots.	4				
	EW NBD AHR 5520-24X [Term: 5 Year]	4				
	350 Watt AC Power Supply Module - Front to Back airflow	8				
	Pwr Cord,10A,BS546,IEC320-C13	8				
	5520 Versatile Interface Module with **four** 25GbE SFP28 ports MACsec capable supported on Extreme Switching 5520	4				
	100G Passive DAC QSFP28 0.5M	4				
3	**Extreme 5520 Switch** 12 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 36 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 un-pop VIM slot MACsec capable 3 fan modules 2 unpopulated modular PSU slots.	7				
	EW NBD AHR 5520-12MW-36W [Term: 5 Year]	7				
	2000 Watt AC PoE Power Supply Module - Front to Back airflow. Supported on Extreme Switching X465 VSP4900 and 5520	14				
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	14				
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	7				
4	**Extreme 5720 Switch** 48 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes fan modules 2 unpopulated modular PSU slots.	5				
	EW NBD AHR 5720-48MW [Term: 5 Year]	5				
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	10				

	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	10				
	5720 Versatile Interface Module with 6 25GbE SFP28 ports, MACsec capable.	5				
5	**Extreme 5720 Switch** 24 100Mb/1Gb/2.5Gb/5Gb 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes fan modules 2 unpopulated modular PSU slots.	8				
	EW NBD AHR 5720-24MW [Term: 5 Year]	8				
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	16				
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	16				
	5720 Versatile Interface Module with 6 25GbE SFP28 ports, MACsec capable.	8				
6	**Extreme 5520 Switch** 48 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	2				
	EW NBD AHR 5520-48W [Term: 5 Year]	2				
	1100 Watt AC PoE Power Supply Module - Front to Back airflow	4				
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	4				
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	2				
7	**Extreme 5520 Switch** 24 10/100/1000BASET FDX/HDX 802.3bt 90W PoE 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	10				
	EW NBD AHR 5520-24W [Term: 5 Year]	10				
	715 Watt AC PoE Power Supply Module - Front to Back airflow	20				
	Power Cord, 10A, SOUTH AFRICA, SABS 164/1, IEC320-C15	20				
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	10				
8 (a)	**Extreme 5320 Switch** 16 10/100/1000Base-T PoE+ ports 4x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	11				
	EW NBD AHR 5320-16P-4XE [Term: 5 Year]	11				
	Pwr Cord,10A,BS546,IEC320-C13	11				
	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	44				
	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	44				
8 (b)	**Extreme 5320 Switch** 16 10/100/1000Base-T PoE+ ports 4x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	2				
	EW NBD AHR 5320-16P-4XE [Term: 5 Year]	2				
	Pwr Cord,10A,BS546,IEC320-C13	2				
	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	8				

#	Description	Qty				
	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	8				
9	**Extreme 5520 Switch** 24 10/100/1000BASET FDX/HDX 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 2 fan modules 2 unpopulated modular PSU slots.	12				
	EW NBD AHR 5520-24T [Term: 5 Year]	12				
	350 Watt AC Power Supply Module - Front to Back airflow	24				
	Pwr Cord,10A,BS546,IEC320-C13	24				
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on Extreme Switching 5520	12				
10	**Extreme 5520 Switch** 48 10/100/1000BASET FDX/HDX 2 stacking/QSFP28 1 unpopulated VIM slot MACsec capable includes 3 fan modules 2 unpopulated modular PSU slots.	14				
	EW NBD AHR 5520-48T [Term: 5 Year]	14				
	350 Watt AC Power Supply Module - Front to Back airflow	28				
	Pwr Cord,10A,BS546,IEC320-C13	28				
	5520 Versatile Interface Module with four 10GbE SFP+ ports supported on ExtremeSwitching 5520	14				
	Sub Total (A)					
B. Transceivers & DAC Cables						
11	10 Gigabit Ethernet SFP+ module, 850nm, MMF 300m link, LC connector	2				
12	25G Base SR SFP28 100m LC connector Multi-Mode	4				
13	10 Gigabit Ethernet SFP+ module, 1310nm, SMF 10km link, LC connector	116				
14	40G LR4 QSFP+ 10km LC connector Single-Mode MSA P/N EQPT404LR4LCL100.	4				
15	25G LR SFP28 10km LC connector Single-Mode MSA P/N ESPT251LR1LCL100.	12				
16	100G Passive DAC QSFP28 0.5M	52				
17	100G Passive DAC QSFP28 3m MSA P/N EQPC1HPC030C0100.	3				
	Sub Total (B)					
C. Wireless Solutions						
18	**HPE Aruba Networking AP-655 (RW)** Tri-radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	100				
19	Aruba 5Y FC NBD Exch AP-65x TAA Campus SVC [for R7J43A]	100				
20	HPE Aruba Networking AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	100				
21	**HPE Aruba Networking AP-635 (RW)** Tri-radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	28				
22	Aruba 5Y FC NBD Exch AP-635 SVC [for R7J27A]	28				
23	HPE Aruba Networking AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	28				
24	**HPE Aruba Networking AP-503H (RW)** Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP	228				
25	Aruba 5Y FC NBD Exch AP-503H TAA SVC [for R3V37A]	228				

26	HPE Aruba Networking AP-503H-MNT1 500H Series AP Kit with Single Wall-Box Mount Adapter	228				
27	**HPE Aruba Networking AP-575 (RW)** TAA Dual Radio 2x2:2/4x4:4 802.11ax Integrated Omni Antennas Outdoor AP	17				
28	Aruba 5Y FC NBD Exch AP-575 TAA SVC [for R4H32A]	17				
29	**HPE Aruba Networking AP-270**-MNT-H2 Outdoor AP Flush Wall Mounting Bracket	17				
30	HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	2				
31	**HPE Aruba Networking 9240** (RW1) 4x SFP28 1x Expansion Slot Campus Gateway	2				
32	Aruba 5Y FC NBD Exch 9240 Gateway SVC [for S0G71A]	2				
33	HPE Aruba Networking 9240 AOS8 Gold Capacity License E-LTU	2				
34	HPE Aruba Networking PSU-550-AC 550W AC Power Supply	2				
35	HPE Aruba Networking PC-AC-IN 250V/6A 1.8m C13 to IS1293 (IN) AC Power Cord	4				
36	HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	4				
37	HPE Aruba Networking MCR-HW-5K Mobility Conductor Hardware Appliance Support for up to 5K Devices	1				
38	Aruba 5Y FC NBD Exch MM-HW-5K SVC [for JY792A]	1				
39	HPE Aruba Networking LIC-AP Controller per AP Capacity License E-LTU	373				
40	Aruba 5Y FC SW Cntrl per AP Cpty E-L SVC [for JW472AAE]	373				
41	HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	2				
	Sub Total (C)					
D (I). Horizontal Cabling Subsystem - Data Nodes (Commscope)						
42 (I)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	53				
43 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For Rack end)	784				
44 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For User end)	784				
45 (I)	GigaSPEED X10D® 360GS10E Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 7 Feet (For Rack end)	131				
46 (I)	GigaSPEED® X10D 3091B ETL Verified Category 6A U/UTP Cable, white jacket, 4 pair count, 1000 ft (305 m) length, WE TOTE® box	28 box				
47 (I)	GigaSPEED X10D® 360GS10E Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 3 Feet (For CCTV end)	131				
48 (I)	2-Port Faceplate Shuttered Square Type	605				
49 (I)	Cat6A UTP, Information Outlet, Yellow (For, Rack end)	784				
50 (I)	Cat6A UTP, Information Outlet, Yellow (For, User end)	784				

51 (I)	GigaSPEED® X10D MGS600 Series Information Outlet, Red (For, Rack end)	131			
52 (I)	GigaSPEED® X10D MGS600 Series Information Outlet, Red (For, Camera end)	131			
53 (I)	Blank Insert for Jack Panel (Pack of 100)	6			
	Sub Total (D (I))				
D (II). Horizontal Cabling Subsystem - Data Nodes (R&M)					
42 (II)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	53			
43 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For Rack end)	784			
44 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Yellow Jacket, 7 Feet (For User end)	784			
45 (II)	Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 7 Feet (For Rack end)	131			
46 (II)	ETL Verified Category 6A U/UTP Cable, white jacket, 4 pair count, 1000 ft (305 m) length, WE TOTE® box	28 box			
47 (II)	Solid Low Smoke Zero Halogen Cordage Modular Patch Cord, Red Jacket, 3 Feet (For CCTV end)	131			
48 (II)	2-Port Faceplate Shuttered Square Type	605			
49 (II)	Cat6A UTP, Information Outlet, Yellow (For, Rack end)	784			
50 (II)	Cat6A UTP, Information Outlet, Yellow (For, User end)	784			
51 (II)	Series Information Outlet, Red (For, Rack end)	131			
52 (II)	Series Information Outlet, Red (For, Camera end)	131			
53 (II)	Blank Insert for Jack Panel (Pack of 100)	6			
Sub Total (D (II))					
E (I). Horizontal Cabling Subsystem - Wireless Nodes (Commscope)					
54 (I)	Category 6A U/UTP Cable, Outdoor, UV resistant, gray jacket, 4 pair count, 1000 ft (305 m) length, reel with Channel performance 660 MHz or more	8 box			
55 (I)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	33			
56 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 7 Feet (For Rack end)	524			
57 (I)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 3 Feet (For Wireless end)	524			
58 (I)	2-Port Faceplate Shuttered Square Type	308			
59 (I)	Cat6A UTP, Information Outlet, Green (For, Rack end)	655			
60 (I)	Cat6A UTP, Information Outlet, Green (For, Wireless end)	655			
61 (I)	Surface Mount Box, Dual Port White	12			
62 (I)	Blank Insert for Jack Panel (Pack of 100)	2			

	Sub Total (E (I))					
E (II). Horizontal Cabling Subsystem - Wireless Nodes (R&M)						
54 (II)	Category 6A U/UTP Cable, Outdoor, UV resistant, gray jacket, 4 pair count, 1000 ft (305 m) length, reel with Channel performance 660 MHz or more	8 box				
55 (II)	U/UTP Modular Unloaded Panel 1U, 24 Port Straight	33				
56 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 7 Feet (For Rack end)	524				
57 (II)	Cat6A UTP, Low Smoke Zero Halogen Cordage Modular Patch Cord, Green Jacket, 3 Feet (For Wireless end)	524				
58 (II)	2-Port Faceplate Shuttered Square Type	308				
59 (II)	Cat6A UTP, Information Outlet, Green (For, Rack end)	655				
60 (II)	Cat6A UTP, Information Outlet, Green (For, Wireless end)	655				
61 (II)	Surface Mount Box, Dual Port White	12				
62 (II)	Blank Insert for Jack Panel (Pack of 100)	2				
	Sub Total (E (II))					
F. Horizontal Cabling Subsystem - Fiber Nodes (For Lecture Hall) (Commscope / Panduit / R&M)						
63	2 Core, Armoured Drop Cable 9/125 µm SM-OS2, As per ITU-T G.652.D and G.657.A1(Bend Insensitive) Cable	3,300				
64	48F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	1				
65	24F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	1				
66	HFTP with 2 Nos. of LC Coupler	34				
	Sub Total (F)					
G. Armoured Fiber Back Bone Cabling - OS2 SM (Commscope / Panduit / R&M)						
67	288-core Outside Plant Cable - ECCS Armor, FRLSZH Sheath, Loose-tube, Multitube, Gel-Free, 9/125 SM, OS2, 24 Tubes and each tube 12 Core.	2,500m				
68	12-core Indoor / Outdoor FRLSZH , Gel-Free, 9/125 SM, OS2	3650m				
69	288-fiber LC-Style, Singlemode , 19-inch, Rack mount Patch Panel Pre loaded with LC duplex SM adapter, 288 LC, SM OS2 Pigtails,Splice tray & Splice Protectors	2				
70	4U sliding panel, accepts (16) splice cassettes, modules or adapter packs, providing up to 192 duplex LC ports	2				
71	Splice Cassette, 24LC/UPC with internal shutters, OS2, with LC Style pigtails	24				
72	Blank Adapter Pack, 4 Panels	2 pkt				
73	Fiber Optic Splice Heat Shrink Protective Sleeves, 100-Pack	8				
74	48F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	6				
75	24F, 1U, LC SM OS2, Loaded with Splice tray, Adapter & Splice Protectors	15				
76	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	118				

#	Description	Qty				
77	Singlemode LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 10 Mtr	16				
78	Fiber Optic Splice Closure, Gel Cable sealing, four pre-installed 24-splice trays, IP 68 Rated.	7				
79	OM4 LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 3 Mtr	4				
80	OM4 LC to LC, Fiber Patch Cord, 1.6 mm Duplex, Low Smoke Zero Halogen (LSZH), 15 Mtr	4				
	Sub Total (G)					
H. Rack & Accessories						
81	42U Enclosure (Size 800 X 1000) Supply includes: with Front Perforated Single Doors - Rear perforated Double Door with standard top & bottom cover, Side Panels, Fan tray with 4 Fans, Castors, 2 Nos of Vertical Power Strip 5/15A -12 Sockets, Earth Straps, 05 Nos of Hardware Pkt (1 PKT of 20 Nos.)	9				
82	24U Closed Rack (Size 800 X 1000) Supply includes: with Front & Rear Doors, Side Panels, Fan tray with 4 Fans, 2 No. Horizontal six 5/15 Amp socket Power strip, 3 Nos of Hardware Pkt (1 PKT of 20 Nos.)	7				
83	2U Double Sided Horizontal Cable Manager (For Field Cables & Switches)	107				
	Sub Total (H)					
I. Conduiting Items & Consumables						
84	40mm HDPE Pipe with Accessories	5700m				
85	50mm High Density Flexible Pipe with Accessories	230m				
86	40mm HDPE Pipe Coupler	190				
87	25mm PVC Conduit / Channel with Accessories	1,000m				
88	25mm High Density Flexible Pipe with Accessories	30m				
89	32mm PVC Conduit / Channel with Accessories	3200m				
90	32mm High Density Flexible Pipe with Accessories	150m				
91	PVC Gang Box, 3 X 3 inch	913				
92	Labels for 4-Pair Patch Cords (56 labels per sheet)	64 sheets				
93	PVC Tube Printed Ferrule	3224				
94	PVC Cable Tie 8 Inch (Pkt - 100 Nos)	450				
95	Mettalic Cable Tie (Pkt - 100 Nos)	27				
96	Fiber Identification Tags	130				
97	Fiber Route Marker (Post Type with Reflector)	50				
98	Manhole / Chamber (Max. depth -1000mm)	25				
99	Velcro Cable Tie	175m				
100	Outdoor Box	12				
101	Velcro Cable Tie, 20mm x 200mm Black (Pkt of 100)	13 pkt				

	Sub Total (I)						
J. Services							
102	UTP Cable Segregation, Identification, Testing & Ferruling Charges	1555					
103	UTP Cable Laying Charges (upto a height of 4 mtr. Maximum)	10980 m					
104	2 Core Fiber Cable Laying Charges	3,300m					
105	12 Core Fiber Cable Laying Charges	3650m					
106	288 Core Fiber Cable Laying Charges	2,500m					
107	UTP Termination for both ends, Labeling, Testing, , Jack Panel, Face Plate Fixing Charges	1555					
108	Fiber Core Preparation for Splicing & Fiber Splicing Charges	1,532					
109	Fiber Scanning Charges (OTDR)	766					
110	Fiber LIU / Fiber Enclosure / Fiber Route Marker Installation Charges	82					
111	Fiber Window Cut Charges	8					
112	Closed Rack Installation Charges	16					
113	40mm HDPE Pipe Installation Charges	5700m					
114	50mm High Density Flexible Installation Charges	230m					
115	25mm PVC Conduit / Channel Fixing on Wall Charges	1,000m					
116	25mm High Density Flexible Fixing on Wall Charges	30m					
117	32mm PVC Conduit / Channel Fixing on Wall Charges	3200m					
118	32mm High Density Flexible Fixing on Wall Charges	150m					
119	PVC Gang Box Fixing on Surface Charges	913					
120	Existing Network Rack Revamping Charges	2					
121	Manhole / Chamber Installation Charges	25					
122	SITC of Switches including configuration, migration(old to new setup) and integration with existing network	lumpsum					
123	SITC of WIFi Access Points including configuration (old to new setup), migration and integration with existing network	lumpsum					
124	Soft / Hard Digging & Re-filling / Digging in RCC ~ Road Cutting & Re-filling / Horizontal Directional Drilling Charges NOTE : Only Raw filling / finishing is considered for any opening or access made for HDD machine or for any other access needed while executing as per assigned SOW.	2,300m					
125	Installation, testing, commissioning, migration (old setup to new), integration with old network etc for the project including documentation etc	lumpsum					
126	Any other charges incidental to completion of the project including consumables, tools, cables, connectors etc	lumpsum					
127	Penta Scanning	1555					
	Sub Total (J)						
	Grand Total (A+B+C+D+E+F+G+H+I+J)						

Grand Total Amount in Figures: Rs. _____

Grand Total Amount in Words: Rs_____

Delivery period in Weeks: _____

Installation period in Weeks: _____

A. Quote for Buyback#

S. No.	Device	Qty.	Unit Price in Rs.	GST	Total Price Excl. GST	Total Price Incl. GST
1.	Old Network Equipment	01				
2.	Old Gang Box with Face Plate	06				
3.	Total					

Note:

*Quantity of new purchase may increase/decrease/ may be zero at the time of placing order.

#Refer tender terms for buyback devices

- The Scope and specifications given in Section-E must be agreed. The bid with deviations would be rejected.
- Quotation Validity Period: - 180 days from the last date of Submission of quotation/tender.
- In case of discrepancy in the amount quoted in figure and words, the amount mentioned, which results in lowest payable by MDI will be taken into consideration.
- 5-year warranty from OEM with next day business support.
- Price quoted should be inclusive of freight, cartage, delivery and installation at MDI Gurgaon Campus. Nothing extra will be paid.
- #MDI may place the order for the whole/ some of the items indicated above. Quantity of each item may vary (increase/ decrease) at the time of placing the order. Decision of competent authority of MDI in this regard shall be final and acceptable to the bidder.
- **Not delivering items within the period indicated above would attract penalty**
- **Financial bid not in the format-6 (as above) would be summarily rejected.**
- **All items must be quoted. Not quoting for one or more of the above items would lead to rejection of the bid.**
- **Payment terms not in conformity of the tender terms would lead to rejection of the bid.**

<div align="right">

Signature of the bidder signatory

Full Name of bidder signatory

Full name of the bidder company

</div>

Stamp

Date:

Place:

(To be submitted on company letter head)