TENDER for SUPPLY, INSTALLATION, TESTING AND COMMISSIONING of ELV SYSTEMS WORKS FOR PHASE I CONSTRUTION ATPROPOSED PERMANENT CAMPUS OF INDIAN INSTITUTE OF MANAGEMENT UDAIPUR, AT VILLAGE BALICHA, UDAIPUR, RAJSTHAN.

Tender Package: E3/BAL/

S.No.	Pg No	Point No	Tender Original Clause	Clarification	Request for Change / Modification	IIMU CLARIFICATION
1			**2.1. TYPE-1 EDGE SWITCH (ACCESS SWITCH) - 39 Qty**			
2	14	**Switch Architecture**	Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimumstacking bandwidth of 160Gbps inclusive of all types of stacking cables to meet site requirements.	The asked stacking bandwidth for 24x1G ports Switch (24x2 = 48 Gbps full duplex traffic only) is way high as all the available ports traffic won't be going through only on stack ports simulteneously. Maximum traffic will be going on uplinks ports (2x10G) towards Distribution / Core Layer hence we request you to reduce the same from 160Gbps to 80Gbps. It shall enable us to participate.	**"Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimum stacking bandwidth of 80Gbps inclusive of all types of stacking cables to meet site requirements."**	Please refer to the revised specification document
3	14	**Layer 2 Features**	Support for minimum 32k MAC addresses.	Core and Distribution switches have been asked with 32K MAC address where all the traffic would be aggregated and access layer doesn't need that much MAC addresses. We request you to reduce the MAC address to 16K. It shall enable us to participate.	**"Support for minimum 16k MAC addresses."**	Please refer to the revised specification document
4		**REQUEST FOR ADDITION**		This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
5			**2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH) - 68 Qty**			
6	16	**Switch Architecture**	Switch should be provided with dedicated stacking ports/ virtual chassis from Day 1 with minimumstacking bandwidth of 160Gbps inclusive of all types of stacking cables to meet site requirements.	The asked stacking bandwidth for 24x1G ports Switch (24x2 = 48 Gbps full duplex traffic only) is way high as all the available ports traffic won't be going through only on stack ports simulteneously. Maximum traffic will be going on uplinks ports (2x10G) towards Distribution / Core Layer hence we request you to reduce the same from 160Gbps to 80Gbps. It shall enable us to participate.	**"Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimum stacking bandwidth of 80Gbps inclusive of all types of stacking cables to meet site requirements."**	Please refer to the revised specification document
7	16	**Layer 2 Features**	Support for minimum 32k MAC addresses.	Core and Distribution switches have been asked with 32K MAC address where all the traffic would be aggregated and access layer doesn't need that much MAC addresses. We request you to reduce the MAC address to 16K. It shall enable us to participate.	**"Support for minimum 16k MAC addresses."**	Please refer to the revised specification document

8		REQUEST FOR ADDITION		This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
9			**2.3. TYPE-3 EDGE SWITCH (ACCESS SWITCH) - 45 Qty**			
10	18	**Switch Architecture**	Switch should have minimum 2 dedicated SFP ports.	Rrequest you to consider 10G uplink support for longer investment proof to cater future traffic growth.	**"Switch should have minimum 2 dedicated SFP+ ports."**	No Change in Tender
11	18	**Layer 2 Features**	Support for minimum 8k MAC addresses.	Request to consider high MAC address as asked in all other type of access switches	**"Support for minimum 16k MAC addresses."**	No Change in Tender
12	19	**Quality of Service (QOS) Features**	Switch should support four queues per port.	QoS is very crucial in Campus network for traffic priortization hence request you to consider eight queues per port as similar asked in other type of Access Switches.	**"Switch should support eight queues per port."**	No Change in Tender
13		REQUEST FOR ADDITION		This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
14			**2.4. TYPE-3 EDGE SWITCH (ACCESS SWITCH) - 52 Qty**			
15	20	**Switch Architecture**	The switch should have 8 X 10/100/1000 Base-Tx ports; all ports shall be 802.3at-compliant PoE+ capable, with the switch capable of providing minimum 120 Watts of PoE power budget.	There is no any enhancements developed on 8 port switches by any vendor these days hence request you to increase the port count to 24 which shall provide longer feature enhancements and support cycle and help us equally to participate in this opportunity.	**"The switch should have 24 X 10/100/1000 Base-Tx ports; all ports shall be 802.3at-compliant PoE+ capable, with the switch capable of providing minimum 370 Watts of PoE power budget."**	No Change in Tender
16	20	**Switch Architecture**	Switch should have minimum 2 dedicated SFP ports.	Rrequest you to consider upgradable to 10G uplink support as well for longer investment proof to cater future traffic growth.	**"Switch should have minimum 2 dedicated SFP ports (upgradrable to 10G SFP+ in future)."**	No Change in Tender
17	20	**Layer 2 Features**	Support for minimum 8k MAC addresses.	Request to consider high MAC address as asked in all other type of access switches	**"Support for minimum 16k MAC addresses."**	No Change in Tender
18		REQUEST FOR ADDITION		Request you to incorporate stacking in this category as well which will provide resiliency, high availability and ease of management as asked in other category of Access Switches. There are huge no of qty for this category and stacking would be surely a great feature to reduce operational time.	**Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimum stacking bandwidth of 40Gbps inclusive of all types of stacking cables to meet site requirements.**	No Change in Tender

19			REQUEST FOR ADDITION	This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
20			**2.5. TYPE 5 BLOCK/CLUSTER DISTRIBUTION SWITCH- 8 Qty**			
21	22	**Supported Layer 2 Features**	Support for minimum 32K MAC addresses	At distribution layer traffi would be aggregated from Core Switches hence it is advisable to increase MAC Address as same has been asked in Type 1 & 2 Type of Access Switches	**"Support for minimum 64K MAC addresses"**	No Change in Tender
22			REQUEST FOR ADDITION	This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
23			**2.5. TYPE 6 CORE SWITCH- 2 Qty**			
24	24	**Switch performance**	The switch should support minimum 32kMAC address entries	At Core layer traffic would be aggregated from Distribution Switches hence it is recommended to increase MAC Address as same has been asked in Type 1 & 2 Type of Access Switches.	**"Support for minimum 96K MAC addresses"**	No Change in Tender
25		**QoS**	The switch should support four Hardware-Based Queues	QoS is very crucial in Campus network for traffic priortization hence request you to consider eight queues per port as similar asked in other type of Access Switches.	**"The switch should support eight Hardware-Based Queues"**	No Change in Tender
26			REQUEST FOR ADDITION	In such prestigeous Campus network, security is very important hence we request you to incorporate 802.1x authentication feature on Core Switches	**"User Authentication as per IEEE 802.1x"**	No Change in Tender
27			REQUEST FOR ADDITION	This certification ensures that when specific models achieve EAL3 or NDPP certifications, they are all evaluated against a well-defined and standardized criteria with security assurance requirements to provide more consistent, repeatable and objective testing methodologies for security framework. Hence we request you to in-corporate the same.	**"Should have EAL3 or NDDP Certification from day 1"**	No Change in Tender
28			**2.8. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE**			

29	30	**Network Discovery**	System should have the capability to capture logical connectivity information including virtual private network (VPN)	OEM Sepcific. One OEM has been asked for Switches and NMS. There is no VPN functionality requried on asked switches hence we request you to modify the clause which shall enable us to participate.	**"System should have the capability to capture logical connectivity information"**	No Change in Tender
30	31	**Security Management**	Should support AAA server and user access management for BYOD functionality for minimum 5000 concurrent users with complete Guest life cycle management and should have minimum 3000 devices license from day 1	Asked devices are way high as very less no of switches asked in the tender. Total switches qty is not more than 250 hence that much license should be good enough to start with. Please clarify if asked NMS needs to support 3000 device license from day 1.	**"Should support AAA server and user access management for BYOD functionality for minimum 5000 concurrent users with complete Guest life cycle management and should have minimum 250 devices license from day 1"**	No Change in Tender
31	31	**Guest Life Cycle Management**	Network Management and Monitoring entity should have the capabilities to launch and integrate AAA functionality	OEM Specific. It has been already asked that Bidder should propose any additional hardware if required for AAA in addition to NMS then integration will restrict us to participate in the bid.	**Please remove.**	No Change in Tender
32				1. Tender says : Earnest Money- Rs. 26 Lakhs		
33				Query: Is there any waiver for a organization registered under NSIC, MSME?		No Change in Tender
34				Tender says: Three similar works of Rs.6, 40, 00000.		
35				Query: Will multiple POs from same company (Separate Passive & Separate Active components orders) will suffice the requirement		Refer revised eligibity Criteria in the NIT
36				Tender says : One completed work of 6.40 Cr in Govt. organization.		
37				Query: Order with lesser amount (= 3.5 Cr) will suffice the requirement?		Refer revised eligibity Criteria in the NIT
38		2.1. TYPE-1 EDGE SWITCH (ACCESS SWITCH)				
39	Page:14		Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimumstacking bandwidth of 160Gbps inclusive of all types of stacking cables to meet site requirements.	Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimumstacking bandwidth of 40Gbps inclusive of all types of stacking cables to meet site requirements.	24x1G =24Gbps switch dedicated 40Gbps stacking performance is sufficient to meet the standard enterprise campus deployment; requet to kindly allow standard 40Gbps stacking or virtualization upto 9 switch having 40Gbpsx9 Switch= 360Gbps of Stacking bandwidth across the stacking backplane; Standard 40Gbps stacking also supports 10km geographically seperated switch to virtualize as a logical single unit comparsion to limited 3meter within rack switch 160Gbps stacking with OEM proprietary cable.	Please refer to the revised specification document
40	Page:14		Switch should support auto switch replacement in an existing stack with the new switch without any configuration for joining the stack	Switch should support auto**/seamless** switch replacement in an existing stack.	Request to kindly remove the OEM Specific Stacking technology meeting the objective of seamless replacement of faulty hardware from active switch stack.	Please refer to the revised specification document
41			New	Switch should support Internal redundent Power Supply	Request to kindly incorporate the clause ensuring higher network uptime of network Access layer	No change from Tender
42		2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)				

43	Page:16	Switch should be provided with dedicated stacking ports/ virtual chassis from Day 1 with minimumstacking bandwidth of 160Gbps inclusive of all types of stacking cables to meet site requirements.	Switch should be provided with dedicated stacking ports/ virtual chassis from Day 1 with minimumstacking bandwidth of 40Gbps inclusive of all types of stacking cables to meet site requirements.	24x1G =24Gbps switch dedicated 40Gbps stacking performance is sufficient to meet the standard enterprise campus deployment; requet to kindly allow standard 40Gbps stacking or virtualization upto 9 switch having 40Gbpsx9 Switch= 360Gbps of Stacking bandwidth across the stacking backplane; Standard 40Gbps stacking also supports 10km geographically seperated switch to virtualize as a logical single unit comparsion to limited 3meter within rack switch 160Gbps stacking with OEM proprietary cable.	Please refer to the revised specification document
44	Page:16	Switch should support auto switch replacement in an existing stack with the new switch without any configuration for joining the stack	Switch should support auto**/seamless** switch replacement in an existing stack.	Request to kindly remove the OEM Specific Stacking technology meeting the objective of seamless replacement of faulty hardware from active switch stack.	Please refer to the revised specification document
45		New	Switch should support Internal redundent Power Supply	Request to kindly incorporate the clause ensuring higher network uptime of network Access layer	No change from Tender
46	2.3. TYPE-3 EDGE SWITCH (ACCESS SWITCH)				
47	Page:18	Layer 2, 24 x 10/100/1000Base-Tx Ports, PoE+, minimu	Layer 2, 24 x 10/100/1000Base-Tx Ports, PoE+, minimum 2 dedicated SFP+ Ports supporting both 1G/10G module	10G is standard in all new generation switch, requet to kindly incorporate SFP+ type Interface to ensure easy 10Gbps future expansion and investment protection with maintaining even standard for all Access Layer switch.	No change from Tender
48	Page:18	Switch should have minimum 2 dedicated SFP ports.	Switch should have minimum 2 dedicated SFP+ ports supporting both 1G/10G module	10G is standard in all new generation switch, requet to kindly incorporate SFP+ type Interface to ensure easy 10Gbps future expansion and investment protection with maintaining even standard for all Access Layer switch.	No change from Tender
49	Page:18	Switch should support auto switch replacement in an existing stack with the new switch without any configuration for joining the stack	Switch should support auto**/seamless** switch replacement in an existing stack.	Request to kindly remove the OEM Specific Stacking technology meeting the objective of seamless replacement of faulty hardware from active switch stack.	Please refer to the revised specification document

50	Page:18	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/ virtual chassis from day 1 and with minimum stacking bandwidth of 80Gbps	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/ virtual chassis from day 1 and with minimum stacking bandwidth of 40Gbps	24x1G =24Gbps switch dedicated 40Gbps stacking performance is sufficient to meet the standard enterprise campus deployment; requet to kindly allow standard 40Gbps stacking or virtualization upto 9 switch having 40Gbpsx9 Switch= 360Gbps of Stacking bandwidth across the stacking backplane; Standard 40Gbps stacking also supports 10km geographically seperated switch to virtualize as a logical single unit comparsion to limited 3meter within rack switch 160Gbps stacking with OEM proprietary cable.	No change from Tender
51	Page:19	Switch should support four queues per port.	Switch should support Eight queues per port.	Request to kindly consider even type of switch hardware specification as asked in other access switch.	No change from Tender
52					
53	2.4. TYPE-4 EDGE SWITCH (ACCESS SWITCH)				
54	Page:20	Switch should have minimum 2 dedicated SFP ports.	Switch should have minimum 1 dedicated SFP ports.	Request to kindly consider minimum 1 SFP port for 8 Port switch segment as per practical deployment requirements.	No change from Tender
55					
56	2.5. TYPE 5 BLOCK/CLUSTER DISTRIBUTION SWITCH				
57	Page:22	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/ virtual chassis from day 1 and with minimum stacking bandwidth of 240Gbps	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/ virtual chassis from day 1 and with minimum stacking bandwidth of 160Gbps	Dedicated 160Gbps stacking performance is sufficient to meet the standard enterprise campus deployment; requet to kindly allow standard 160Gbps stacking or virtualization upto 9 switch having 160Gbpsx9 Switch= 1.4Tbps of Stacking bandwidth across the stacking backplane; Standard 160Gbps stacking also supports 10km geographically seperated switch to virtualize as a logical single unit comparsion to limited 3meter within rack switch 240Gbps stacking with OEM proprietary cable.	No change from Tender
58	Page:22	Support for minimum 32K MAC addresses	Support for minimum 128K MAC addresses	Distribution switch shall be the aggregation point of multiple Access Switch or Switch Stack, this is strongly suggested to consider minimum 4 times MAC address support in Distribution switch layer.	No change from Tender
59	2.6. TYPE 6 CORE SWITCH				
60	Page:24	The switch should support minimum 32kMAC address e	The switch should support minimum 256k MAC address entries	Core switch shall be the aggregation point of multiple Distribution Switch or Switch Stack, this is strongly suggested to consider Core Switch should support minimum 2x MAC address table size of Distribution switch layer.	No change from Tender
61	Page:24	The switch should support DSCP-Based Recognition	The switch should support DSCP-Based Recognition or equivalent	Request to kindly consider the or equivalent funct	Please refer to the revised specification document

62	Page:24		? The switch should support DSCP-Based Marking-Rema	? The switch should support DSCP-Based Marking-Remarking or equivalent	Request to kindly consider the or equivalent funct	Please refer to the revised specification document
63	Page:24		? The switch should support DCSP Mutation	? The switch should support DCSP Mutation or equivalent	Request to kindly consider the or equivalent funct	Please refer to the revised specification document
64	Page:24		Switch should support a minimum of 4K IP routes	Switch should support a minimum of 40K IP routes for both IPv4 and IPv6	4k IP Routes is very less for the Core Switch segment as this layer only shall be communicating with other network segment over various OSPF, BGP Layer 3 routing protocol. Request to kindly consider minimum 40k IPv4 and IPv6 Routing table size for the better hardware performance & future investment protection.	No change from Tender
65		**WLAN Controller**				
66	27	2.7.1	The WLAN APs must support either internal RADIUS server or external RADIUS servers for user authentication	The WLAN Controller must support either internal RADIUS server or external RADIUS servers for user authentication	In Controller based solution Authentication is done by controller thus this functionality should be supported in controller not AP. Request to amend the clause as it is OEM specific.	No change from Tender
67	28	2.7.2 WLAN Controller Security Features	Controller should support Rogue AP detection and classification and should have WIPs signatures	Controller should support Rogue AP detection and classification and should have WIPs signatures to detect and locate threat from Non wifi transmitter, Non Wifi bridge, Non wifi Acess point, Layer 1 DOS attacks etc.	It is important to detect attacks from non wifi sources as well in WIPS for a robust security. Request you to add Non wifi attack detection points.	No change from Tender
68						
69		**Access point**				
70	29	2.7.4 Acess point	4X4:3Multiple Input / Multiple Output (MIMO) Wave 2 ac	3x3:3Multiple Input / Multiple Output (MIMO) Wave 1 access point	4x4 MIMO with 3 spatial stream is not an industry standard and wave 2 technology is not matured as of now. Many OEM having low grade Wave 2 AP's which does not support basic spectrum analysis functionality also to detect interference, to act as sensor for WIPS,take corrective action to change channel. Since all the functionality asked in controller Acess point has to support all these functionality. request you to amend the clause with 3x3:3 wave 1 AP.	No change from Tender
71	29	2.7.4 Acess point	Access point should be 802.11ac Wave 2 from day 1			No change from Tender
72			The access point should be capable of performing security scanning and serving clients on the same radio. It should be also capable of performing spectrum analysis and security scanning using same radio.	Points should be Added	It is very important that Acess point should have all these capability forsecurity and propoer functioning of WLAN infra. If AP does not support interference detection and resource management , WIPS sensor functionality thennon of the advance functionality mentioned in controller can be achieved. Refer related document of each OEM to validate this. Some OEM have different AP models in 802.11ac out of which same AP support these functionality and some not.Request to add these points.	No change from Tender
73			Must operate as a sensor for wireless IPS			No change from Tender
74			AP model proposed must be able to be both a client-serving AP and a monitor-only AP for Intrusion Prevention services			No change from Tender
75			The Access Point should have the technology to improve downlink performance to all mobile devices.			No change from Tender
76			Access point must incorporate radio resource management for power, channel, coverage hole detection and performance optimization			No change from Tender
77		2.8 Centralize network Management and Monitoring Software				

78	31	Security Management	Should support AAA server and user access management for BYOD functionality for minimum 5000 concurrent users with complete Guest life cycle management and should have minimum 3000 devices license from day 1	Request to delete the points.	All these are AAA server functionality and not NMS functionality. Request to delete the clause from NMS portion. If functionality required, request to add AAA as separate component.	No change from Tender
79			Should support inventory management on per device			No change from Tender
80			Should be able handle Alert/Event management			No change from Tender
81			Should support workflows for improved setup and tro			No change from Tender
82			System should offer centralized change – audit logging, graphical device management			No change from Tender
83						
84	31	Guest Life Cycle Management	The Solution should have AAA functionality and Guest Life Cycle Management in redundant mode (Bidder should propose any additional hardware if required)	Request to delete the points.	All these are AAA server functionality and not NMS functionality. Request to delete the clause from NMS portion. If functionality required, request to add AAA as separate component.	No Change from Tender
85			Network Management and Monitoring entity should have the capabilities to launch and integrate AAA functionality			No Change from Tender
86		DATA & TELECOM – PASSIVE CABLING INFRASTRUCTURE				
87	32		Quantities of pigtails mentioned in RFP needs to be re verified	We would request you to kindly mention the correct quantity of Pigtails		Qtys of following items revised as follows: BoQ Item No. 1.13 (a) to be read as - 712 BoQ Item No. 1.13 (b) to be read as - 268 BoQ Item No. 1.13 (c) to be read as - 360 BoQ Item No. 1.14 to be read as - 5122
88		Approved Make List				
89			IBMS Software Suite DDC controller Sensors - Immersion Temperature Sensor (with thermo well) - Water Application, Duct Type Temperature Sensor, Outside temperature Sensor, Duct Humidity Sensor Pressure Transmitters Differential Pressure Switch – Air Application	We would request you to Kindly add name of Schneider Electric also in the approved make list against these Line items.	Schneider is all together complied so they should be allowed to participate.	Please refer to the revised specification document
90		Other queries				
91			Please confirm if seamless integration between IBMS and VMS is required			Not required
92			OEM participation	As most of the OEMSs of IBMS / building automation are planning to bid directly so it would be very difficulty for all IT System Integrators to bid, as these OEMs would not share better commercials to IT SIs so we would request you to kindly allow only IT System Integrators to bid in the benefit of IIM-U as major & critical portion of the Tender is IT part.		Please refer to the revised specification document

93	11	10	It is mentioned that a part of the EMD is acceptable in the form of bank guarantee. In such case, Rs 13,00,000/- (50% of total EMD) of the EMD shall have to be deposited in the form of Treasury Challan/Deposit at Call receipt/Demand Draft or Pay order or Banker`s Cheque drawn in favor of Indian Institute of Management, Udaipur, and balance in the form of Bank Guarantee of any Scheduled bank	We request the department to accept complete EMD amount in form of Bank Guarantee valid for 90 days or 180 days from date of submission of bid.		**No change in the Tender clause**
94	84	4.3	Security Deposit: It is mentioned that tenderer's whose tenders are accepted shall permit IIMU, at the time of making any payment to him for work done under the contract to deduct a sum at the rate 5% (Five Percent) of the gross amount of each running till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% (Five Percent) of the tendered value of the work. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the up-to-date amount of security deposit starts exceeding the earnest money.	Clarity on Security deposit is not there as different terms of taking SD is mentioned at different places in tender. Also, we humbly request IIM-Udaipur not to ask for security deposit as bidders are already submitting performance bank guarantee for defect liability period which would suffice the purpose.		No change in the Tender clause
95	85 & 169	4.4 & Liquidated Damages	Compensation for delay of work @ 1.0 % per month of delay to be computed on per day basis to maximum of 5% & 2.5 % for delay up to one fourth period of the prescribed timelines for Setup phase. 5% for delay exceeding one fourth but not exceeding half of the prescribed timelines for Setup phase. 7.5% for delay exceeding half but not exceeding three fourth of the prescribed timelines for Setup phase 10% for delay exceeding three fourth of the prescribed timelines for Setup phase	Clarity of Liquidated Damages is required from the department. Also we request the department to keep compensation of delay as 0.5% of un-delivered services for each month of delay to maximum of 5% of value of un-delivered services.		No change in the Tender clause

96	85	4.4	In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause (Time and Extension for delay), the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released.	We request IIM-U not to withheld any amount due towards successful bidder. Hence please consider to remove this clause.		No change in the Tender clause
97	38	6.4	Bidder to submit certificate from a CA duly certifying that the tendered shall not have incurred any loss in more than 2 years during the immediate last 5 financial years shall be furnished by the tenderer.	We request the department to amend the clause & allow bidders with positive net worth to quote.		No change in the Tender clause
98	153	General	The ELV system integrator shall be a profit making entity continuously for the past 3 business years ending March 2015. The same shall be substantiated with the submission of audited balance sheet, account statements, profit and loss accounts as applicable.			
99	34	1.4	The tenderer must submit information of all ongoing Legal Proceedings and for the past seven (7) years. In the event the tenderer has not been subject to any such Legal Proceedings either in process or in the past seven (7) years, an affidavit to this effect, duly notarized shall be submitted in original.	We request the department to remove this clause as bidders will not be able to provide such details as it is against the policy of most of the companies. Also it has been asked that tenderer shall not have been black listed by any State/Central Government Department or Public Sector Undertaking or any autonomous body. The tenderer shall submit a duly notarized affidavit, stating on oath that the tenderer has not been black-listed.		No change in the Tender clause

100	36 & 37	6.1.1	Successfully completed 3 similar works each of the value not less than 40% of the estimated cost. OR Completed 2 similar works each of the value not less than 60% of the estimated cost. OR Completed 1 similar work of value not less than 80% of the estimated cost. AND Completed 1 work of similar nature (as mentioned above or a separate one) of value 40% of estimated cost put to tender i.e. Rs. 6,40,00,000/- with a Central Government/State Government Department/Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/State Public Sector Under taking/City Development Authority/Municipal Corporation of any City formed under any act by Central/State Govt and Published in Central/State Gazette.	As This bid is more inclined towards Campus Networking/IT Project so we request the department to consider experience of Campus networking/Security Surveillance. (Please accept Purchase Orders for the same) OR We would request you to consider experience of Corporate/Enterprise for similar nature of work. (Please accept Purchase Orders for the same)		No change in the Tender clause
101	34	1.3	References, information and certificates from the respective owners certifying suitability, technical knowledge or capability of the tenderer should be attested by the first class judicial magistrate or equivalent or Group A Gazetted officer of Central or any State Government.	We request the department to relax the condition & accept all documents on the letter head of the company duly signed by the authorized signatory. Power of attorney duly authorizing the signatory will be submitted along with the bid.		No change in the Tender clause
102	-	-	It is mentioned for various annexures/documents to be attested by gazzeted officer. AND It is mentioned for various annexures/documents to be notarized for e.g. Form I, Form L etc.	We request IIM-U to accept all documents duly signed by authorized signatory possessing power of attorney wherever necessary. Attestation from gazatted officer or any document to be notarized clause to be removed wherever mentioned in tender document.		No change in the Tender clause
103	158	5.20.6	The agency has to make their own arrangement for storage of their materials. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.	As per the normal industry practice, please provide the place for storing the material along with the security staff to safeguard material during entire project.		No change in the Tender clause

104	153	General (Point No:3)	ELV system integrator should have completed at least one ELV project (telecom, I.T networking, and safety, security and building automation) prior to submission of their tenders. (Completion certificate to be attached).	It is difficult to provide experience of telecom, I.T networking, and safety, security and building automation in one single project. So we request IIM-U to relax this clause & allow bidders to submit experience on campus networking & security surveillance project OR building automation & security surveillance project.		Please refer to the revised eligibility critaria.
105	37	6.3	The tenderer shall have minimum gross average annual financial turnover of Rs. 16 crores (Equal to the Estimated Cost put to Tender) during the last five financial years ending 31st March 2015	As estimated project cost is 16 Crores, so we suggest IIM-U to increase the turnover value to at-least 10 times the estimated project value. This is as per the industry norms.		Please refer to the revised eligibility critaria.
106	157	5.20.2	Payment Terms are mentioned as: IT Non IT 1) After initial inspection 70% 60% 2) On completion of pro - rata installation 10% 20% 3) Commissioning 15% 15% 4) On Handing Over 5% 10%	We request IIM-U to change the amend the payment terms to: IT Non IT 1) After initial inspection 80% 80% 2) On completion of pro - rata installation 10% 10% 3) Commissioning & On Handing Over 10% 10%		No change in Tender clause
107	65	4.8	The overall time of completion is 12 months the contractor shall complete all the ELV Systems works covered under Phase-1 (attached….), such that the system is ready for operation in all respects, strictly conforming to the time limit specified for such items.	We request IIM-U to please increase the timelines to 18 months as the project has substantial amount of work. It would be difficult to complete the work in 12 months.		No change in Tender clause
108	155	General (m)	Preventive maintenance: Do periodic preventive maintenance of all the systems once in a quarter(3 months). And reports must be generated and submitted based on the health of the functioning and non-functioning devices to IIMU authority.	We request IIM-U to amend the clause & allow the successful bidder to carry our preventive maintenance half yearly.		No change in Tender clause
109	-	-	Clarity on up-time of various components like server, network hardware & software components, other components is required	We request the department to provide clarity on uptime requirement on all the component involved in the project		As per Service Legal Agreement provided in the Tender

110	85	4.4	Compensation for Delay If the contractor fails to maintain the required progress in terms of clause 4.8 (Time and Extension for delay) or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Owner on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) that the progress remains below that specified in Clause (Time and Extension for delay) or that the work remains incomplete.....	We request IIM-U to change the clause as: However, IIMU shall provide the period of 30 days to the Contractor to cure/remedy such defect/discrepancy.		No change in Tender clause
111	86	4.5	When Contract can be Determined Subject to other provisions contained in this clause, the IIMU may without prejudice to any other rights or remedy contained in this Agreement against the Contractor in respect of any delay, inferior workmanship or any claims for damages and/or any other provisions of this contract or otherwise, whether or not the date of completion has or has not elapsed, may determine the contract by notice in writing absolutely in any of the following cases:.....	We suggest that following points shall be added: In the event of termination of the Contract by the IIMU for any reason whatsoever, the IIMU shall pay the Contractor the following amounts: (a) The Contract Price, attributable to the parts of the System(s)/Work(s) executed including goods and services delivered (including also the Work in Progress) by the Contractor up to the date of termination. In respect of capital items deployed in the Project, the IIMU must purchase at the Written Down Value (WDV) from the Contractor all IT & non-IT infrastructure and the software deployed. Written Down Value (WDV) shall be computed at depreciated value by applying ten per cent (10%) depreciation per annum on written down value basis, on the value of the infrastructure deployed hereunder. VAT and other taxes as applicable shall be payable by the IIMU on such WDV. In case the IIMU is unable to purchase as mentioned above, the IIMU must pay as Liquidated Damages on written down value of all IT & non-IT infrastructure and the software deployed by applying depreciation @ fifteen per cent (15%) per annum		No change in Tender clause

112	101	4.19	Payment due to Variation in Prices of Materials after receipt of tender There will be no Variation in Prices/Rates of any Items of work, and the prices shall remain firm during the currency of the Contract and also for the extended period of Contract. Therefore any/ all claims on account of variation in prices during the currency of the Contract & the extended period shall not be acceptable.	We request IIM-U to change the clause as: In case any national or state statute or any local law or regulation or by-law of any duly constituted authority is changed or comes into force which results in extra costs/tax in relation to the provision of the Equipment/ Software/ Services, the consequential effect shall be to the account of the IIMU and the same shall be borne by the IIMU. Any additional Cost (in terms of tax) on account of change in law- IIMU to bear that cost.		No change in Tender clause
113	104	4.24	Carrying out part work at risk & cost of contractor. If Contractor ii. Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Owner/ Engineer-in-Charge.....	We suggest the time period to cure the defect shall be at-least 30 days.		No change in Tender clause
114	104	5.12.2	The rates quoted by the tenderer, shall be firm and inclusive of all taxes and levies as applicable (including works contract tax but excluding service tax)	We request IIM-U to change the clause as: Notwithstanding anything, in case any national or state statute or any local law or regulation or by-law of any duly constituted authority is changed or comes into force which results in extra costs/tax in relation to the provision of the Equipment/ Software/ Services, the consequential effect shall be to the account of the IIMU and the same shall be borne by the IIMU. Any additional Cost (in terms of tax) on account of change in law- IIMU to bear that cost.		The provision is already there in the Tender. Refer clause GCC clause 4.45 of NIT

115	104	12	Audit: The IIM-U/GOR or its authorized representative can regularly audit the operations of SI for robustness, security, potential for revenue leakages, etc. SI would cooperate and comply with all requirements of such audits.	We request IIM-U to change the clause as: However, IIMU shall provide a written notice of 7 days to the Contractor before carrying out any such audit.		**No change in Tender clause**
116	-	-	Deemed Acceptance clause is not mentioned.	We request IIM-U to include the clause as: The Deliverable(s)/Equipment(s)/Software(s)/Product(s) which requires acceptance test shall be deemed to be accepted (without requiring supporting signatures of the IIMU), for the purpose of release of payment and for start of the warranty period and otherwise, on occurrence of any one of following events, whichever occurs earliest: a. if IIMU fails to conduct or attend the acceptance test or does not provide a written notice of any rejection/confirmation of acceptance test, within seven (7) days from the date of Test readiness notification by the Contractor, or b. if IIMU puts the Deliverable(s)/Equipment(s)/Software(s)/Product(s) into operational/ productive/ normal use prior to successful acceptance test, or c. if Equipment(s)/Software(s)/Deliverable(s)/Product(s) has been installed but, due to reasons		No change in Tender clause

117	-	-	Limitation of liability clause is not mentioned.	We request IIM-U to include the clause as: Notwithstanding anything to the contrary contained in the contract Contractor's aggregate liability arising out of or in connection with the contract, whether based on contract, tort, statutory warranty or otherwise, shall be limited to the amount actually paid by IIMU to the Contractor in respect of the Equipment / Software / Services that are subject matter of a claim subject to a maximum of 10% of the contract value. The Contractor shall not be liable for any special, indirect, incidental or consequential damages of any kind including but not limited to loss of use, data, profit, income, business, anticipated savings, reputation, and more generally, any loss of an economic or financial nature, whether these may be deemed as consequential or arising directly and naturally from the incident giving rise to the claim.		No change in Tender clause
118	-	-	Interest on delayed payment clause is not mentioned	We request IIM-U to include the clause as: Notwithstanding anything to the contrary contained anywhere in the Agreement, IIMU agrees that any delay in payments beyond due date i.e. 30 days from the receipt of invoice, shall automatically bear interest at an annual rate equal to 18% per annum for the relevant delayed period, calculated from the date due until date of realization of full payment. The Contractor reserves the right to suspend/terminate this Agreement with immediate effect, if IIMU fails to release the payment within 45 days from the date of receipt of invoice.		No change in Tender clause

119	-	-	Site not ready clause is not mentioned	We request IIM-U to include the clause as: In order to enable the Contractor to commence work and meet its obligations under the contract, the IIMU shall be responsible for acquiring and providing physical possession of the site and access thereto, and also all other areas reasonably required for the proper execution of the contract and making the site ready complete in all respect in accordance with the Contractor's specifications for site readiness. IIMU agrees that the Contractor shall not in any manner be liable for any delay in supply of Hardware/Software and provisioning of Services under the terms of this contract, if such delay is attributable to IIMU's failure to make the site ready within seven (7) days of Contractor's direction in this		No change in Tender clause
120		ELVAV_Tender_ Specifications	157 of 159	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS MATERIALS (IN ALPHABETICAL ORDER)	The OEM's qualified in different category of products are arbitary and not necessarily leaders by market share in India and worldwide. These OEM's India specific support capablities have a big question mark like OEM own RMA depot's, OEM's own TAC's, number of OEM's Professional service engineer's, number of resident Request to review already qualified OEM's as the a few qualified OEM's have big difference in quality among themselfs in same category	Please check the revised list of approved makes
121		ELVAV_Tender_ Specifications	13 of 159	ACTIVE COMPONENTS - NETWORKING SWITCH SPECIFICATIONS	The models should have EAL or NDPP certified at day one. The networking equipment like switches are routers have ISO/IEC 15408 EAL criteria to test software and hardware's security efficiacy. This certification is given by commom crietria to which India is also signatory. Equivalent and current generation is NDPP	No change from Tender
122		ELVAV_Tender_ Specifications	14, 16, 18 of 159	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/ virtual chassis from day 1 and with minimum stacking bandwidth of 160Gbps, 80Gbps	The stacking bandwidth required for an access stack is excessive. Should be 20Gbps or maximum 40Gbps. Especially traffic expected inside an access switch would only be uplinked to distribution by 1 x10G or 2x10G then such high stacking bandwidth which is internal to stack does not relate to uplink bandwidth	No change from Tender

123		NIT ELVAV systems	36	CRITERIA FOR ELIGIBILITY (TECHNICAL TENDER)	Please clarify if a blacklisted firm can participate in RFP ?	As per NIT conditions
124		NIT ELVAV systems	37 - clause 6.1.1	Criteria for Eligibility	Request you to change the current clause no 6.1.1 on page 37 to "successfully completed **2 similar works** each of value not less than 6.4 crores".	Please refer to the revised eligibility critaria
125			NIT	**Clause mentioned on Page No. 153 & Page No. 38:**		
126				The ELV system integrator shall be a profit making entity continuously for the past 3 business years ending March 2015. The same shall be substantiated with the submission of audited balance sheet, account statements, profit and loss accounts as applicable.	At one side your Tender estimated value is 16 Cr and IIM-U is allowing bidder having Turnover 16 Cr only and at other side due to this small point bidders like **HCL-I (Turn Over more than 5000 Cr)** are facing challenges in bidding.	Please refer to the revised eligibility critaria
127				A certificate from a chartered accountant duly certifying that the tendered shall not have incurred any loss in more than two (2) years during the immediate last five financial years shall be furnished by the tenderer.	**This is just to inform that HCL-I's Net Worth is positive**, we are not profit making company just because in last few Years we have picked up some large Projects like UIDAI (2400 Cr), DCN (500 Cr) and many more Large projects for which major payment is not yet collected as Implementation phase is still going on due to size of the projects, so due to this non collection of huge payment our balance sheet becomes.	Please refer to the revised eligibility critaria
128					There is one more reason that Company had to waive off some major amount (BR) which were stuck from last so many years with some of the Clients, As per the new government Company has to waive off pending amount after a certain period, this was a direct hit on our balance sheet.	Please refer to the revised eligibility critaria
129					We would request to kindly change the clause- **"from Profit making company to Company having Positive Net worth"**, We are sure you would understand our genuine concern and will do the necessary changes to enable us for the participation, We are connecting Prebid queries in separate mail, Please let us know in case of any further query.	**Please refer to the revised eligibility critaria**

130		3.1	**3. FIRE DETECTION & ALARM SYSTEM** SITC of Microprocessor based networkable addressable type fire alarm control panel with display. The panel should be equipped with 1 installed loop having a capacity of connecting a minimum of 150 addressable detectors and 150 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop, operating at 240 volts AC power supply, and equipped with automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working. The panel shall be supplied with all accessories, control modules and power supplies in the required quantities as per site requirements for all types of field devices to make the system fully operational. The panel shall be UL 9th Edition Listed and FM Approved. Interconnecting of multiple panels shall be possible via hardware interfaces and software. A copper supporting interface shall be supplied by default. Irrespective of whether or not mentioned in the BoQ, all necessary interfaces - such as hardware including any fiber optics modules, if required and/or software - for interconnecting all fire alarm panels at site shall be provided in the system(s). All fire alarm panels at site shall be operated and	Please approve Siemens UL listed Desigo Fire Alarm Panel to quote for this requirement. This panel is also complied with all technical specification as required.		No change in Tender specification
131		6.1	**6. GAS SUPPRESSION SYSTEM** SITC of Seamless PESO Cylinder with Valve and Warning Sign Board			\
132		6.2	Design and SITC of Novec 1230 or **equivalent agent** - qty. as per OEM's design calculations	To keeping common competition; Only single gas to be mention in BOQ. We propose to go with Novec 1230 as this gas have least empact on environment than any other gas i.e. commonly used FM200. Please mention exact gas to be considered.		Refer revised BOQ
133		6.10	SITC of Gas Release Panel with accessories	Please approve UL listed **RAVEL** make gas release panel, which is equivalent ot approve make system.		Refer revised BOQ
134		7.1	**7. ASPIRATION BASED SMOKE DETECTION SYSTEM** SITC of air sampling type networkable single zone HSSD system, auxiliary programmable relays for Prealert / Alert / Action / Fire on board for FAS system. The laser detector shall be capable of autocleaning of laser chamber.	Kindly mention the area for which aspirating detection to be installed. We propose to go with VESDA for the same.		Refer revised BOQ

135		1	Following common specifications shall apply to all U/FTP CAT6A standards based structured cabling components, i.e., Cable, Patch Panel, IOs & Patch Cords. All components of the structured cabling system shall be from the same OEM manufacturer.		Following common specifications shall apply to all U/FTP & U/UTP CAT6A standards based structured cabling components, i.e., Cable, Patch Panel, IOs & Patch Cords. All components of the structured cabling system shall be from the same OEM manufacturer.	Please see the revised specification document
136		i	Standards Compliance	U/FTP cabling system, conforming to ANSI/TIA/EIA 568-C.2 CAT6A Cabling system, ISO/IEC 11801 2nd edition, EN-50173-1.	U/FTP or U/UTP cabling system, conforming to ANSI/TIA/EIA 568-C.2 CAT6A Cabling system, ISO/IEC 11801 2nd edition, EN-50173-1.	Please see the revised specification document
137						
138				The cabling system components must be UL listed or equivalent	The cabling system components must be UL listed or ETL	Please see the revised specification document
139		ii	Warranty	Performance characteristics shall be provided alongwith the bids and actual tests conducted at site after installation and commissioning for the following parameters:		No change in Tender
140				Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for 4-connector channel.		
141				25-years' systems performance guaranty shall be provided and site shall be certified for guarantied performance by the OEM/manufacturer along with actual test results conducted at site.	20/25-years systems performance guaranty shall be provided and site shall be certified for guarantied performance by the OEM/manufacturer along with actual test results conducted at site.	No change in Tender
142				The cable shall be tested for minimum guaranteed performance as per standards at 500MHzoperation minimum.		
143		iii	OEM Requirement	All passive cabling must be from same OEM (UTP, U/FTP and Fiber)		
144		**1.1**	**U/FTP CAT6A**		U/FTP or U/UTP CAT6A	Please see the revised specification document
145		i	Standards Compliance	As per 1.i) above		
146		ii	Conductors	23 AWG solid bare copper		
147		iii	Construction and mechanical details	Polyethylene insulation, LSZH jacket, each pair to be individually foiled.	Polyethylene insulation, LSZH jacket as per IEC 60332-3-22, each pair to be individually foiled for U/FTP and Polyolefin insulation, LSZH jacket as per IEC 60332-3-22 for U/UTP solution.	Please see the revised specification document
148		iv	Operating temperature	-20 Deg. C to +60 Deg. C		
149		v	Delay Skew	Not exceeding 45 ns / 100m		
150		vi	Performance Characteristics	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for 4-connector channel, to be submitted with bid		
151		**1.2**	**U/FTP CAT6A I/O Jack**		U/FTP or U/UTP CAT6A I/O Jack	Please see the revised specification document
152		i	Standards Compliance	As per 1.i) above, UL Listed	As per 1.i) above, UL Listed/ETL	

153		ii	Performance Characteristics	ETL Verified 4-Connector Channel to ISO/IEC 11801 AMD 1 Class EA, along with channel illustration, and parts numbers to be submitted along with the bid		Please see the revised specification document
154		**1.3**	**U/FTP CAT6A PATCH PANEL**		U/FTP or U/UTP CAT6A PATCH PANEL	Please see the revised specification document
155		i	Standards Compliance	As per 1.i) above		
156		ii	Ports	24 Ports loaded with shutteredor keystone Jacks	24 Ports intelligent ready panel loaded with keystone or U/UTP Jacks	No change in Tender
157		iii	Port arrangement	Individually replaceable jacks or keystone	Individually replaceable jacks or module of 6 jacks	No change in Tender
158		iv	Height	1 U (1.75 inches)		
159		v	Panel	Fully powder coated		
160		vi	Approvals	UL listed	UL listed/ETL	Please see the revised specification document
161		vii	Termination Pattern	TIA / EIA 568 A and B;		
162		viii	Performance Characteristics	ETL Verified 4-Connector Channel to ISO/IEC 11801 AMD 1 Class EA, along with channel illustration, and parts numbers to be submitted along with the bid		
163		**1.4**	**U/FTP CAT6A PATCH CORDS**			
164		i	Standards Compliance	As per 1.i) above		
165		ii	Conductor	24-26 AWG, multi-stranded copper, UL Listed	23-26 AWG, multi-stranded copper or solid copper, UL Listed/ETL	Please see the revised specification document
166		Iii	Length	1 Meter, 2 Meter, 3 Meter options in different colours		
167		**1.5**	**FACEPLATES**			Please see the revised specification document
168		i	Type	1-port, 2 -port or 4-port, White Face plate		
169		ii	Material	ABS / UL 94 V-0		
170		iii	No. of ports	One/ Two / Four		
171		**FIBER OPTIC CABLE AND COMPONENTS**				
172		**SPECIFICATIONS OF SINGLE MODE FIBER OPTIC CABLING SYSTEM:**				
173		i	Type	Single mode OS2 fiber cabling system and all its components; must be from a single OEM (Cables + Components)		
174		ii	Networks Speeds Supported	1Gbps, 10Gbps and 40Gbps		
175		iii	Standard Compliance	ITU-T G.652A, B, C & D, IEC - 60793-2-50, TIA/EIA 568-C.3	ITU-T G.652.D (Zero Water Peak), ITU-T G.657.A1, IEC - 60793-2-50, Telcordia GR-20	
176		Iv	Performance Testing	Fiber-channel compliance to ANSI/TIA568 -C.0 for OS2		
177		V	Warranty	25-year systems warranty from OEM including OTDR test reports; Warranty to cover bandwidth of the specified and installed cabling system	20/25-year systems warranty from OEM including OTDR test reports; Warranty to cover bandwidth of the specified and installed cabling system	
178		**SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE:**				
179		i	Cable Type	6 / 12 / 24 / 48 core, Single Mode, Armored, Loose-unitube for 6 and 12 core , Gel filled & Multi tube construction cable for 24 and 48 core ; typical 6 cores per tube for 24 and 48 core cable	6 / 12 / 24 / 48 core, Single Mode, Armored, Loose-unitube for 6 and 12 core, Gel free & Multi tube construction cable for 24 and 48 core ; typical 6 cores per tube for 24 and 48 core cable	

180		ii	Fiber Type	Single Mode, 9 / 125		No change in Tender
181		iii	Fiber core must be	As per Telecordia GR20, ITU-T G652D, IEC-60793-2-50, TIA/EIA 492-CAAB	As per Telecordia GR20, ITU-T G652.D, IEC-60793-2-50, ITU-T G.657.A1	
182		iv	No of cores	6 / 12 / 24 / 48 core -ISO 11801 -OS2		
183		v	Armor	Corrugated steel tape armor		
184		vi	Cable Construction Type	Loose tube corrugated steel tape armoured cable, provided with FRP or equivalent non-metallic central strengthmember	Loose tube corrugated steel tape armoured cable, provided with FRP for 24 fiber and above or equivalent non-metallic central strength member	
185		vii	Outer Jacket Construction	High density polyethylene, anti - termite, anti - rodent suitable for direct burial application. Jacket must be UV stabilized	HDPE or MDPE, suitable for direct burial application. Jacket must be UV stabilized	
186		viii	Losses @ 1310nm frequency	< = 0.4 dB/Km	< = 0.34 dB/Km	
187		ix	Losses @1550nm frequency	< = 0.3 dB/Km	< = 0.22 dB/Km	
188		x	Operating Temperature	-20 deg C to + 60 deg C	-40 deg C to + 70 deg C	
189		xi	Cable / Component	All fiber cables and components must be from a single OEM (Including U/FTP CAT6A Cabling System)	All fiber cables and components must be from a single OEM (Including U/FTP or U/UTP CAT6A Cabling System)	
190		xii	Testing Parameters	Must pass the following : -IEC794-1-E1, IEC794-1-E2, IEC794-1-E3,	Must pass the following : -IEC794-1-E1, IEC794-1-E3,	
191				IEC794-1-E4, EIA-455-104, IEC794-1-E7, IEC794-1-E10, IEC794-1E11, IEC794-1-F5 or equivalent tests	IEC794-1-E4, IEC794-1-E7, IEC794-1 E11, IEC794-1-F5 or equivalent tests	
192		xiii	Multi-channel capability	The fiber cable must have been designed to provide optimum performance from 1265nm to 1625nm making it suitable for 16 – channel Course Wavelength Division Multiplexing (CWDM) applications		
193		**SPECIFICATIONS FOR CONNECTORS:**				
194		i	Connector Type	SC or LC-Style, Duplex		No change in Tender
195		ii	Operating temperature	-20 deg C to + 50 deg C	-10 deg C to + 60 deg C	
196		iii	Durability	(500 Matting's): < 0.2 dB Max		
197		iv	Ferrules	Pre-radius Ceramic Zirconia Ferrule. Bayonet Coupling: 2.5 mm Zirconia Ferrule	Pre-radius Ceramic Zirconia Ferrule	
198		v	Attenuation	Not more than 0.75 dB per mated pair		
199		vi	Parameters / standard	Meets or exceeds ITU specifications		
200		**SPECIFICATIONS FOR PIGTAILS(SINGLEMODE OR MULTIMODE, AS APPLICABLE):**				
201		i	Type	SC or LC style, SM or MM OM3/OM4 as required. Simplex, 1 meter, compliant to ITU-G657.B - Bend Insensitive Fiber		No change in Tender
202		ii	Operating temperature	-20 deg C to + 50 deg C	-10 deg C to + 60 deg C	No change in Tender
203		iii	Durability	(500 Matting's): < 0.2 dB Max		No change in Tender
204		iv	Ferrules	Pre-radius ceramic zirconia ferrule. Bayonet coupling: 2.5 mm zirconia ferrule	Pre-radius Ceramic Zirconia Ferrule	No change in Tender
205		v	Attenuation	Not more than 0.75 dB per mated pair		No change in Tender
206		vi	Parameters / standard	Meets or exceeds ITU specifications UL Listed or equivalent	Meets or exceeds ITU specifications UL Listed/ETL or equivalent	No change in Tender
207						
208		**SPECIFICATIONS FOR FIBER OPTIC CABLE PATCHCORDS:**				

209		i	Cable type	LC-LC or SC-SCstyle, SM or MM OM3/OM4 as required. Available as either 1.6mm or 3mm simplex or duplex patch cord. Compliance to ITU-G657.B - Bend Insensitive Fiber	LC-LC or SC-SCstyle, SM or MM OM3/OM4 as required. Available as either 1.6mm or 3mm simplex or duplex patch cord. Compliance to ITU-G657.A1 - Bend Insensitive Fiber	No change in Tender
210		ii	Fiber type	Single mode 9/125 & Multimode OM3/OM4250 micron primary coated buffers		No change in Tender
211		iii	No of cores	2 cable construction type PVC outer jacket	2 cable construction type LSZH outer jacket	No change in Tender
212		iv	Outside Diameter	1.6mm x 3.0mm (Simplex) or 1.6mm x 3.3mm(Duplex)		
213		v	Operating Temperature	-20 deg C to + 60 deg C	-10 deg C to + 60 deg C	No change in Tender
214		**SPECIFICATIONS FOR 19" RACK MOUNTED FIBER OPTIC PATCH PANELS**				
215		i	Fiber optic patch panel	19-inch, rack mounted fiber optic patch panel		No change in Tender
216		ii	Height	1U		No change in Tender
217		iii	Number of fibercores	6/12/24/48 core configurations		No change in Tender
218		iv	Number of OSP	Minimum 2		No change in Tender
219			(outdoor) cables for termination			No change in Tender
220		v	Grounding	2 Nos. of earthing lugs		No change in Tender
221		vi	Cable Management rings	Front and rear cable management rings		No change in Tender
222		vii	Adapter plates	6/12/24/48/96 Port adapter plates with each plateloaded with single-mode or multi-mode couplers, as applicable		No change in Tender
223		viii	Construction	Complete Aluminum alloy housing, fully powder coated		No change in Tender
224		ix	Splice tray	Shall be included in LIU	Shall be included in LIU or provided seperately	No change in Tender
225		**SPECIFICATIONS FOR ADAPTOR PLATES & ADAPTORS (SINGLEMODE OR MULTIMODE, AS APPLICABLE):**				
226		i	Fiber Optic adapter plate	6-port, SC or LC style	6-port or individual, SC or LC style	no change in Tender
227		ii	Attenuation	Max of 0.75 dB per mated pair		no change in Tender
228		iii	Adapters	Available in Simplex and Duplex types		no change in Tender
229		iv	Durability	< 0.2 dB max (1000 Mattings)		no change in Tender
230		v	Standard	Compliant as per EIA/TIA 568-B and ISO/IES 11080		no change in Tender
231		**SPECIFICATIONS FOR EXTERNAL FIBER OPTIC ENCLOSURE:**				
232		i	No of fiber core terminations	6/12/24 ports		No change in Tender
233		ii	Features	Easy and fast-to-fix for fiber cable termination,IP-68 Rated	Easy and fast-to-fix for fiber cable termination	No change in Tender
234		iii		Easy to re-enter, it should not require re-entry kits		No change in Tender
235		v		Fiberoptic splice traymust be designed in snap in lock & easily fixable.		No change in Tender
236		Vi		Must meets fire codes and industry standards		No change in Tender
237		vii		Should prevent cable sheath movement with temperature changes		No change in Tender
238			**9.2. VIDEO SCALER CUM SWITCHER**			
239			Video Input Interface : Minimum Four HDMI inputs and two universal analog inputs			
240			Video Output Interface : Minimum Two simultaneous HDMI/DVI outputs Female connector			

241			Video Input Resolution Range : 640x480 to 1600x1200 and 1920x1200 for NTSC, PAL			
242			Video output Resolution Range : Scaled 640x480 to 1920x1200, including HDTV 1080p/60 and 2K			
243			Supported HDMI Specification features: Key Minder, EDID Minder, HDCP verification			
244			Video Processing : Analog:-12 bits per color,Digital pixel data bit depth:-8, 10, or 12 bits per channel	137	Requesting to specify the make and model	Please quote suitable model as per specifications
245			Audio Input : Minimum 6 stereo line balanced or unbalanced and 2 mono mic/line, balanced or unbalanced			
246			Audio Output : HDMI audio embedding and de‑embedding			
247			Communication & Control Port: RS232 Serial bi-directional/USB and RJ-45 Connector			
248			Power Supply : Input: 100 to 240 VAC, 50-60 Hz			
249			Enclosure Type : Metal Body			
250			Mounting Type : Should be mount in Rack (1U)			
251			Compliance : CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI, RoHS, WEEE			
252			**9.3. MATRIX SWITCHER CUM SCALAR – TYPE 1**		**Extron qualifying model : DTP CrossPoint 84 .**	
253			Video Input Requirements : Minimum Six HDMI, Two RJ-45 for video from twisted pair transmitters, Support 4K and UHD signals at all inputs, Provide image adjustments for the DTP outputs, including brightness, contrast, color, tint, detail, H/V positioning, and sizing, Support HDMI specifications including data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats		**We request to keep it 5 HDMI and two RJ45 as inputs and two HDMI and 02 RJ-45 as outputs.**	No Change in Tender
254			Video Output Requirements : Minimum Two HDMI, One RJ-45 for video to twisted pair receivers, Support 4K and UHD signals at both HDMI outputs, Provide a range of selectable scaled DTP output rates from 640x480 to 1920x1200, including 1080p/60 and 2048x1080p/60, Provide independent scaling for each DTP output, Support muting of one or all outputs at any time, Support video transmission over CATx up to 330 feet (100 meters)		**Please help to incorporate inbuilt control processor having at least four IR ports, two RS-232 COM ports, four relay ports, and four digital input ports with Ethernet and OEM proprietery port.**	No Change in Tender
255			Switching Requirements : Provide video and audio matrix switching between any input and any output	138	**Requesting to specify the make and model**	No Change in Tender
256			EDID Requirements : Provide automatic EDID management between connected devices		**Recommended Approved Makes and models- Crestron - DMPS3-300-C / Extron -**	No Change in Tender

257			HDCP Requirements : The unit shall be HDCP compliant		**DTP Crosspoint 84 IPCP SA + Extron DSC**	No Change in Tender
258			Audio Requirements : Provide audio input connections: Support embedded audio on six HDMI connectors, Support embedded audio on two RJ-45 connectors, Support six stereo, line level, balanced or unbalanced signals on six, 5pole, 3.5 mm captive screw connectors, Support four mono, microphone or line level, balanced or unbalanced signals with +48 volt phantom power on four, Provide audio output connections: Support embedded audio on two HDMI connectors, Support embedded audio on two RJ-45 connectors, Support four stereo line level, balanced or unbalanced signals with independent output level control on four, Support S/PDIF digital audio signal on one RCA connector, Support one stereo speaker level signal or two mono speaker level signals		**301 HD / AMX - 3156HD-SP**	No Change in Tender
259			**9.4. MATRIX SWITCHER CUM SCALAR TYPE - 2**		**Extron qualifying model : DTP CrossPoint 108 4K.**	No Change in Tender
260			Video Input Requirements : Min Six HDMI, Four Twisted pair inputs on RJ‑45, Support 4K and UHD signals at all inputs, Provide image adjustments for the Twisted Pair outputs, including brightness, contrast, color, tint, detail, H/V positioning, and sizing, Support HDMI specifications including data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats		**We request to consider for matrix switcher as we don't have the asked configuration model. May please consider 16x16 matrix switcher with inputs cards as : 06 No's HDMI(4k) , 04 No's Twisted pair inputs (4k) and Outputs : 02 No's HDMI (4k) and 02 No's Cat-6 (4K).**	No Change in Tender
261			Video Output Requirements : Min Two HDMI; Two Twisted pair outputs on RJ‑45; Two Variable audio outputs on captive screw, Support 4K and UHD signals at both HDMI outputs, Provide a range of selectable scaled Twisted Pair output rates from 640x480 to 1920x1200, including 1080p/60 and 2048x1080p/60, Provide independent scaling for each DTP output, Support muting of one or all outputs at any time, Support video transmission over CATx up to 90 meters		**Requesting to specify the make and model**	Please quote model as per specifications
262			Switching Requirements : Provide video and audio matrix switching between any input and any output		**Recommended Approved Makes and models- Crestron - DM-MD 8X8 RPS + DMC-4K-HD(06 No's) + DMC-4K-C(04 No's)**	No Change in Tender
263			EDID Requirements : Provide automatic EDID management between connected devices		**+ DMC-4K-HDO (01 No.) + DMC-4K-CO-HD**	No Change in Tender
264			HDCP Requirements : The unit shall be HDCP compliant		**(01 No.) / Extron - XTP 1600 W/RPS + req. No's of i/o Cards / AMX - DGX800-ENC + req. No's of i/o Cards**	No Change in Tender

265			Audio Requirements : Provide audio input connections: Support embedded audio on all HDMI connectors, Support embedded audio on two RJ-45 connectors, Support six stereo, line level, balanced or unbalanced signals on six, 5pole, 3.5 mm captive screw connectors, Support four mono, microphone or line level, balanced or unbalanced signals with +48 volt phantom power on four, Provide audio output connections: Support embedded audio on two HDMI connectors, Support embedded audio on two RJ-45 connectors, Support four stereo line level, balanced or unbalanced signals with independent output level control on four, Support S/PDIF digital audio signal on one RCA connector, Support one stereo speaker level signal or two mono speaker level signals			No Change in Tender
266			RS‑232 insertion from the Ethernet control ports, Bidirectional RS‑232 and IR insertion for AV device control, USB configuration port			No Change in Tender
267						
268			9.5. TWISTED PAIR TRANSMITTER WITH AUDIO EMBEDDING FOR FLOOR BOXES			No Change in Tender
269			Should be able to mount in a variety of floor boxes			No Change in Tender
270			Transmits HDMI or analog video, control, and analog audio up to 50 meters over a shielded CATx cable			No Change in Tender
271			One HDMI, one VGA on 15-pin HD, one 3.5 mm stereo mini jack for audio	139	Requesting to specify the make and model	Please quote as per specifications
272			Auto-switching between inputs			No Change in Tender
273			Supports computer and video resolutions up to 1920x1200, including 1080p/60 and 2K			No Change in Tender
274			Analog stereo audio embedding			No Change in Tender
275			Should support Bidirectional RS-232 and IR pass-through for AV device control			No Change in Tender
276			HDCP compliant, EDID Minder, USB configuration port			No Change in Tender
277			9.6. HDMI TWISTED PAIR EXTENDER TRANSMITTER			No Change in Tender
278			Inputs: One HDMI, one 3.5 mm stereo mini jack for audio			No Change in Tender
279			Output: One Twisted pair output on RJ-45			No Change in Tender
280			Transmits HDMI plus control and analog audio up to 60 meters over a shielded CATx cable			No Change in Tender
281			Compatible with CATx shielded twisted pair cable Accepts additional analog stereo audio signals	139	Requesting to specify the make and model	No Change in Tender

282			Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through			No Change in Tender
283			Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color HDCP compliant, EDID Minder, USB configuration port			No Change in Tender
284			9.7. HDMI TWISTED PAIR EXTENDER RECEIVER			
285			Input: One Twisted pair Input on RJ-45			No Change in Tender
286			Output: One HDMI, one 3.5 mm stereo mini jack for audio			No Change in Tender
287			Transmits HDMI plus control and analog audio up to 60 meters over a shielded CATx cable			No Change in Tender
288			Compatible with CATx shielded twisted pair cable Accepts additional analog stereo audio signals	140	Requesting to specify the make and model	Please quote as per specifications
289			Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through			No Change in Tender
290			Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color HDCP compliant, EDID Minder, USB configuration port			No Change in Tender
291			9.8. TWO INPUT TWISTED PAIR TRANSMITTER FOR HDMI AND VGA WITH AUDIO EMBEDDING			No Change in Tender
292			Inputs: One HDMI, one VGA on 15 pin HD, two 3.5 mm stereo mini jacks for audio			No Change in Tender
293			Output: One Twisted pair Output on RJ 45			No Change in Tender
294			Autoswitching between inputs			No Change in Tender
295			Supports computer and video resolutions up to 1920x1200, including 1080p/60 and 2K, Analog stereo audio embedding			No Change in Tender
296			Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color	140	Requesting to specify the make and model	Please quote as per specifications
297			HDCP compliant, EDID Minder, USB configuration port			No Change in Tender
298			Transmits HDMI or analog video, control, and analog audio up to 60 meters over a shielded CATx cable			No Change in Tender
299			Bidirectional RS‑232 and unidirectional IR passthrough for AV device control RS-232 control port			No Change in Tender
300			9.13. CONTROL PROCESSOR			
301			Should have Minimum Two bidirectional RS-232 serial ports.			No Change in Tender
302			Should have Minimum One bidirectional RS-232/RS-422/RS-485 serial port.			No Change in Tender

303			Should have Minimum Two IR/Serial ports for one-way control of external devices.	144	Requesting to specify the make and model	No Change in Tender
304			Should have Minimum Four Digital I/O ports.			No Change in Tender
305			Should have Minimum Four relays for controlling room functions.			Please quote as per specifications
306			Should have Minimum Ethernet monitoring and control.			No Change in Tender
307			Should have BMS Compatible Protocol like BACnet, KNX, DALI.			No Change in Tender
308			Should Support Minimum 30 Devices with Ethernet Control. Should have Rack Mounted(1U) Metal Enclosure			No Change in Tender
309			9.14. BUTTON PANEL WITH CONTROLLER	144	Requesting to specify the make and model	No Change in Tender
310			Should Have Ethernet monitoring and control			No Change in Tender
311			Should Have Minimum Bidirectional RS-232 port for universal display control			No Change in Tender
312			Should have Minimum Three IR/serial ports for one-way control of external devices			No Change in Tender
313			Should have Minimum Two Digital I/O ports			Please quote as per specifications
314			Should have Minimum Ten Configurable Tri-color, backlit buttons buttons.			No Change in Tender
315			Should have Volume control with volume indication			No Change in Tender
316			Should have Feature like Front panel security lockout			No Change in Tender
317	1	14	Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimumstacking bandwidth of 160Gbps inclusive of all types of stacking cables to meet site requirements	Switch should be provided with dedicated stacking ports/ Virtual chassis from Day 1 with minimumstacking bandwidth of 64 Gbps inclusive of all types of stacking cables to meet site requirements	Stacking bandwiodth of 160 gbps asked is Vendor Specific and for 24 port Gigabit Switch Stacking bandwidth asked should be 60 Gbps which all OEMS support .	Please refer to the revised specifications

318	11	9& 10	Earnest Money Deposit (EMD) shall be accepted only in the form of Treasury Challan/Deposit at Call receipt/Demand Draft or Pay Order or Banker`s Cheque drawn in favor of Director, Indian Institute of Management, Udaipur from any Scheduledbank. The intending tenderer has to submit all the details such as Banker's name, Treasury Challan/Deposit at Call receipt/Demand Draft/Pay Order/Banker's Cheque number, amount and date within the period of tender submissionand place the original instrument in sealed Envelope 1 along with their Tender at project office of IIMU. Alternatively, a part of the EMD is acceptable in the form of bank guarantee. In such case, Rs 13,00,000/- (Rupees Thirteen lakhs only) (50% of total EMD) of the EMD shall have to be deposited in the form of Treasury Challan/Deposit at Call receipt/Demand Draft or Pay order or Banker`s Cheque drawn in favor of Indian Institute of Management, Udaipur, and balance in the form of Bank Guarantee of any Scheduled bank, which is to be submitted by the intending tenderers at project office of IIMU along with their tender. The amount of the EMD can be paid by multiple Treasury Challan/Deposit at Call		EMD may be fully taken in the shape of BG	No Change in Tender
319	13	17	Owner is not bound to accept the lowest or any other tender and reserves to itself the right to reject any or all the tenders received without assigning any reason thereof. All tenders in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be rejected summarily. Tenders subject to any conditions proposed by the tenderer shall not be accepted and shall be liable to be rejected.	In case this is not not L1/ Lowest cost based than what will be the criteria to allot the tender	IIM, Udaipur must consider QCBS based criteria	No Change in Tender
320	13	19	Owner reserves the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the quoted rate.	IIM, Udaipur should mention the increase/ decrease in work allocation in percentage terms	There can be increase/ decrease of 5%-10% in the BOM/BOQ	No Change in Tender

321	35	2.8	"Market Rate" shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits. 3. METHOD	Not applicable for IT projects	To be removed	No Change in Tender
322	39	10	PLANT & EQUIPMENT The tenderers shall furnish the list of plant and equipment proposed to be utilized in carrying out the Work in Form H. Details of any other plant & equipment required for the Work not included in Form H and available with the tenderer may also be indicated.	Not applicable for IT projects	To Be removed	No Change in Tender
323	47	Form D	Projects under execution or Awarded	Statement under the format is wrong	To be removed/ modified	No Change in Tender
324	55	Form I	General Instructions from the affidavit Point 1	Cannot be signed	To be removed	No Change in Tender
325	57	Technical Staff	Rate at which recovery shall be made from contractor in the event of non fulfilling provision of clause 36(i)	There cannot be multiple penalities at various points like SLA penaly, LD clause, and than this also	To be removed	No Change in Tender
326	61	Schedule C	Tools and Plants to be made available to the contractor	Not applicable for IT projects	To be Removed	No Change in Tender
327	64	Schedule F	General rules and directions point 7(DSR 2014 electrica	Could not understand or this formula may not be applicable for IT projects	To be romoved	No Change in Tender
328	65	MILESTONE	Milestone periods are too long. Should be curtailed	Delivery 7-8 weeks. Approval of products: 2 weeks, Installation 5-6 weeks depending upon the product and testing to follow	Execution time should not be more than 6 months	Refer revised milestones in NIT
329	66/67	4.11/4.21/4.28	Payment on intermediate certificate/detailed specificat	Not applicable for IT projects	To be removed	No Change in Tender
330	72	13	The tender includes, in addition to Electrical High Side and DG Sets, all other works such as Cables, Panels, Accessories etc. as specified in the tender document.	Not acceptable	To be removed	Refer revised NIT
331	85	4.4	Security deposit shall be released as follows: Security deposit shall be released after the completion of the Defects Liability period	Pl define Defects liability Period		Refer Special conditions of NIT
332	Page 2-8, structured cabling system	1 / general for this section	U/FTP cabling system		For participation by other leading cabling solution manufacturers, kindly change the solution type to "U/FTP or U/UTP" wherver mentioned	No change in Tender