RESPONSES TO PRE-BID QUERIES

S/N	Chapter No.	Page No.	Clause as per RFP	Clarification Sought	EdCIL's Response
1	6.2	48	The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls at least for 3 years before the last date of submission of RFP	Kindly remove this clause. As per MSME and new Startup partners, it is not possible to fulfill this clause. So, I request that you please remove this. so that MSMEs and new startups can participate.	No change
2				Sir, Kindly clarify shall we have to participate in all the solutions asked in the Tender or can participate in any one solution too asked in the Tender.	Tender is self-explanatory
3	6.2 Pre-Qualification/Eligibility Criteria	46 of 154	The bidder should be a certified ISO 9000/9001 and ISO 27001-2013 certified company. Relevant Organizational Level Certificates to be provided	Request you to change the clause of ISO 270001 - 2013 to either bidder or OEM. Ie ISO 27001 certificate shall be accepted of either OEM of the offered product or the Bidder	As per Corrigendum 1
4	6.2 Pre-Qualification/Eligibility Criteria	47 of 154	The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls at least for 3 years before the last date of submission of RFP	Request you to reduce the technical Manpower strenght to min of 25 Nos	No change
5	6.4 Compliance to Make in India:	52 of 154	d) MII Purchase Preference shall be provided as per the provision of the said MII order	As per the previous clause C bidder has to mention over all MII component of the project. However as per this clause what Edcil is propose to do . Doed Edcil will give preference to MII product of Individual Item or over all project	Tender is self-explanatory
6	1.2.1. IP-PBX System	100 of 154	It should be possible to define servers load balancing mode.	This technology is properitary to one OEM to remove this clause. Also since the configuration so small this load balancing method if not required as Edcil is asking for high end servers for call Manager	No change

7		100 of 154	All servers must be provided in a cluster mode. If one cluster server fails, one of the other cluster servers in	The most the technolgy availabe in the market as server with 1+1 configuration. So Cluster is involved if more than 2 servers are required. Edcil is requested to confirm if they want 1+1 Server or Cluster server . If Cluster technology is required , what is min nos of servers required in a single cluster and how many cluster is to be provided from Day One. However we suggest for this configuration only 1+1 server is sufficient and term " Cluster " can be removed.	No change
8		100 of 154	Should support N+1 Redundancy Architecture as well as 1+1 redundancy Architecture	Request you consider only 1+1 redundancy Architecture	No change
9		100 of 154	Load Balancing of end points must be possible by the administrator	This technology is properitary to one OEM to remove this clause. Also since the configuration so small this load balancing method if not required as Edcil is asking for high end servers for call Manager	No change
10		101 of 154	The system must be scalable to at least 10,000 endpoints in a single cluster and 40000 in mega cluster	Our offfered solution is capabable of offerig the required configuration in a 1+1 server configuration. Hence , request you to remove the term "Cluster"	No change
11		101 of 154	The life cycle of the entire system being provided must be at least five (5) years	5 Years is very less. It should be for Min 10 Years and Undertaking from OEM has to be enclosed .	No change
12		102 of 154	The system gateways should support the following type of extensions	Since Edcil is looking for multiple type of extension and Trunk interfaces, in a single gateway, then Gateway should have universl slot to house all these interfaces. Hence this clause shall be changed as " *The system gateways should have Universal Slot and support the following type of extensions"*	No change
13		102 of 154	The system gateways should support the following type of trunks	Since Edcil is looking for multiple type of extension and Trunk interfaces, in a single gateway, then Gateway should have universl slot to house all these interfaces. Hence this clause shall be changed as " *The system gateways should have Universal Slot and support the following type of trunks"*	No change

14		102 of 154	SIP and MGCP on VOIP	Request you to remove MGCP as it is outdated	No change
15		102 of 154	ISDN (30B+D / 23B+D / 2B+D)	Requrst you to remove 2B+D is to be removed as Service providers are not offering this interface	No change
16		102 of 154	SS7	SS7 is not available for cosumers , it is a switching protocol amongst the service providers	No change
17		102 of 154	ISDN QSIG (30B+D / 2B+D)	Requrst you to remove 2B+D is to be removed as Service providers are not offering this interface	No change
18		103 of 154	The system should have Call Back feature. If the user dials his own extension from predefined number (mobile/landline) then system should disconnect the call and then system should call the user to provide the dial tone so that user can make intercom or PSTN calls.	This is too specific and the properitary fearure of one OEM. To be removed.	No change
19		103 of 154	The system should have FlexiCall (Forking, reach-me-anywhere) feature. Users should be able to receive calls on any of their phones, from almost anywhere. An incoming call rings on all or specific phones until the user answers the call. The user can transfer the call, establish a conference, and so on, whether the answering device is an internal device, an external phone, or a cellular handset. If the answering phone is an external device, the call automatically becomes an authorized mobility call.	This is too specific and the properitary fearure of one OEM. To be removed.	No change
20	4. Help desk specification	107 of 154		This feature is required for a call centre envirronment and the feaures menioned are too specific for one OEM. Hence complete help desk feature is to be removed.	No change

21			1.1.3 Single server deployment with intuitive and central management capabilities should support true multimedia	Request you to remove this feature.	No change
22			1.1.4 Help desk managers must be able to easily prioritize customers and incoming contacts regardless of the media used.	Request you to remove this feature.	No change
23			1.1.6 The help desk must support multi-layer routing including Priority, Skill Based, Statistical, Business Rules, and Customer Defined Values	Request you to remove this feature.	No change
24			1.1.9 The customer must have the ability to build new self-services applications like new IVR flow for new service.	Request you to remove this feature.	No change
25			1.1.11 The help desk must support Outbound, Call-back and Campaigns – including preview, progressive and automated outbound dialing.	Request you to remove this feature.	No change
26			1.1.12 The supervisor must be able to see the status of help desk agents in real-time in his PC like logout, busy, free, release, non ACD etc. in graphical form in pie chart / bar chart.	Request you to remove this feature.	No change
27	1.2 Help desk facilities		1.2.1 Real-time Monitoring – must provide supervisors with statistical information about the current status of the help desk with on line refresh 3-5 seconds). The application must include pre-defined list of reports and the customer (end user) should be able to choose reports as needed.	Request you to remove this feature.	No change

28			1.2.3 The RT must provide the ability to move agents to/from different groups/queues for current login only.	Request you to remove this feature.	No change
29			1.2.5 The help desk solution must have an embedded Management Information System (MIS) suite that monitors all help desk activities, generating reports that summarize the past performance of the system over a given time period, and providing statistical analysis of the help desk within a specified period. Real-time and historical reports provide	Request you to remove this feature.	No change
30			Help desk agent should be able to do following activities from agent	Request you to remove this feature.	No change
31	5.Specifications for Voice Gateway:	108/154	Gateway should provide 4x10/100/1000 interface for Connectivity	Request you to change this as 2x 10/100/1000	No change
32		108/154	Shall support Multiple voice interface like FXO, FXS, Channelized PRI(E1) as per requirement	As the gateway is asking for multiple interfaces request you to change or include the clause as " Gateway should have universal slot and support multiple voice interface"	No change

33	1.1.5. Data CenterTechnical Specification for Hyperconverged infrastructure (HCI)	99	Minimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2x6338N (32C) and 8 x 32GB or 256GB DDR4 Memory per node.	Processor specification of Server published in the bids are not generic and favours a singleProcessor OEM “Intel” only.As 6338N is specific model from Intel Only.AMD is also having equivanet or better product for X86-64 Bit processor, hence we request for needful changes to allow AMD for participation.Suggested changes is as "Minimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2 x 32 Core, minimum base frequency 2.2 GHz or better and 8 x 32GB or 256GB DDR4 3200 MHz Memory per node."ORMinimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2x6338N or 2xEPYC 7452 (32C) and 8 x 32GB or 256GB DDR4 Memory per node.	As per Corrigendum 1

34	6.2 Pre-Qualification/Eligibility Criteria	47	The Bidder should have satisfactorily completed at least one work order for similar type of works each costing not less than Rs. 9,60,00,000/- in any Govt. department/ institutes in the last five years.However, for MSME AND START-UPS duly registered with government of India, this amount shall be 7,68,00,000/- (executed as on date of submission of bid).ORThe Bidder should have satisfactorily completed at least two work orders for similar type of work each costing not less than Rs. 6,00,00,000/- in any Govt. department/ institutes in the last five years.However, for MSME AND START-UPS duly registered with government of India, this amount shall be 4,80,00,000/- (executed as on date of submission of bid).ORThe Bidder should have satisfactorily completed at least three work order for similar type of work costing not less than Rs. 4,80,00,000/- in any Govt. department/ institutes in the last five years. However, for MSME AND START-UPS duly registered with government of India, this amount shall be 3,84,00,000/- (executed as on date of submission of bid).	We request you to kindly include experience from large enterprises as well for fair & healthy competition."in any Govt. department/ institutes/ Large Enterprises in the last five years""The Bidder should have satisfactorily completed at least one work order for similar type of works each costing not less than Rs. 9,60,00,000/- in any Govt. department/ institutes/Large Enterprises in the last five years.However, for MSME AND START-UPS duly registered with government of India, this amount shall be 7,68,00,000/- (executed as on date of submission of bid).ORThe Bidder should have satisfactorily completed at least two work orders for similar type of work each costing not less than Rs. 6,00,00,000/- in any Govt. department/ institutes/Large Enterprises in the in the last five years.However, for MSME AND START-UPS duly registered with government of India, this amount shall be 4,80,00,000/- (executed as on date of submission of bid).ORThe Bidder should have satisfactorily completed at least three work order for similar type of work costing not less than Rs. 4,80,00,000/- in any Govt. department/ institutes/Large Enterprises in the in the last five years. However, for MSME AND START-UPS duly registered with government of India, this amount shall be 3,84,00,000/- (executed as on date of submission of bid).	No change

35	6.2 Pre-Qualification/Eligibility Criteria	48	The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls at least for 3 years before the last date of submission of RFP.	We request you to change the clause as follows for fair competition: The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls as on date of submission of RFP.	No Change
36	Marking Matrix	49	The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls at least for 3 years before the last date of submission of RFP.>=50 Engineers and <80 = 5 Marks>=80 and < =100 = 8 Marks>100 Engineers = 10 Marks	We request you to change the clause as follows for fair competition:The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls as on date of submission of RFP.>=50 Engineers and <80 = 5 Marks>=80 and < =100 = 8 Marks>100 Engineers = 10 Marks	No change

37	Marking Matrix	49	The Bidder shall be in IT & ITES business for the last 5 years and shall have at least 5 years of experience as on as on the date of floating of tender in each of the areas: i. Supply and maintenance of servers, storage ii. Supply and maintenance of networking devices like wireless Access Points with controllers/ switches/ routers/NGFW etc. * Minimum project value considered for evaluation should be more than 9.6 crores. 5 years to less than 7 years of experience = 8 Marks 7 years to less than 9 years of experience = 16 Marks 9 years and above experience = 24 Marks Valid PO/Completion Certificate/Ongoing certificate.	We request you to modify marking criteria as follows for fair competition: 2 years to less than 3 years of experience = 8 Marks 3 years to less than 5 years of experience = 16 Marks 5 years and above experience = 24 Marks	No Change

38	Marking Matrix	50	Experience of Setting Up big Educational Campus Network/ Educational Institution/ University* project in the last Seven financial years with minimum project value of 6 crores.* Note 1: Setting up of Campus areaNetworking (Active components) and related security (NGFW/equivalent) & monitoring system software (NMS, WLC)i. One Contract of value more than Rs. 6 Crore - 7 Marksii. One Contract of value more than Rs. 12 Crore - 14 Marksiii. One Contract of value more than Rs. 18 Crore – 21 MarksDocuments required: Valid PO and Satisfactory Completion Certificate	We request you to change the clause as follows for fair competition:Experience of Setting Up big Educational Campus Network/ Educational Institution/ University* project in the last Seven financial years with project value of 6 crores.* Note 1: Setting up of Campus areaNetworking (Active components) and related security (NGFW/equivalent) & monitoring system software (NMS, WLC)i. One Contract of value more than Rs. 6 Crore - 7 Marksii. One Contract of value more than Rs. 12 Crore - 14 Marksiii. One Contract of value more than Rs. 15 Crore – 21 MarksAlso, kindly accept Ongoing projects with Self delclaration by bidder.Documents required: Valid PO and Satisfactory Completion Certificate/ self declaration for ongoing projects.	No change
39	5.1.1 Surveillance and Security	22	Bullet/Dome camera: - These cameras will be with minimum 4 MP Resolution with IR suitable for Day and night operations. All the cameras will be operative on automotive manual & scheduled mode.	1.1.1. Surveillance and Electronic Security in technical detail you asked 5Mp camera please clearfy .In Point No 5.1.1. page No 22 you asked 4 MP camera but in technical detail you mentioned 5mp Specification.	As per Corrigendum 1
40	5.1.1 Surveillance and Security		64 Channel NVR	Please mentioned NO. of days storage	RFP is self-explanatory

41	1.1.1. Surveillance and Electronic Security	92	IN point no 6 Page No.92 2.9 - 9 mm	2.7 -12mm please add this	No change
42	1.1.1. Surveillance and Electronic Security	92	In Point No 12. Page No.92 IR Inbuilt IR LEDs with IR distance upto 45 mtrs	Please add IR inbuilt IR distance upto 30 mtr	No change
43	1.1.1. Surveillance and Electronic Security		Motion Detection, Customer Flow statistics, Cross Counting, Heat Map, Human & Vehicle Detection, Pedestrian Intrusion Detection & Line cross Detection. Queue length detection, Regional population statistics, SOD-Stationary Object Detection	Please remove Heat Map,Vehicle detection,Pedestrian Intrusion Detection ,this edge analitice is used in dome camerafor indore	No change
	BOQ				
44	1.2.1. IP-PBX System	143	IN BOQ Point NO F (1) Page No .143. IP at core server Based voice solution with 04 Port Voicemail, 04 Port FXS, 04 Port FXO, 3 PRI Trunk lines (30 Ch) Circuit with CLIP Facility , 430 IP users License,01 Nos. IP Operator Console,120 Party Conference ,Speed Dial, Music on Hold , Internal/ External ring difference ,Call Barring	Please clearify the how many max. user caller points.	Tender is self-explanatory

45	6.2 Pre-Qualification/Eligibility Criteria	47	Point NO 2.Page No.47 The bidder shall be in IT & ITES business for the last 5 years and shall have 5 years of experience as on date of floating of tender in all of the following areas: Supply and maintenance of servers, storage Supply and maintenance of networking devices like wireless Access Points with controllers/ switches/ routers/NGFW etc	In IT & ITES please add OEM Work experience on the behafe of Bidder	No change
46	6.2 Pre-Qualification/Eligibility Criteria		3. The Bidder should have satisfactorily completed at least one work order for similar type of works each costing not less than Rs. 9,60,00,000/- in any Govt. department/ institutes in the last five years.	Please add OEM work experience on the behafe of BIDDER	No change
47	6.2 Pre-Qualification/Eligibility Criteria		The Bidders shall have minimum technical manpower strength (B. Tech/MCA) of 50 persons on its rolls at least for 3 years before	We request you to please Mini. Manpower Strength of 20 Persons on rolls	No change
48	6.2 Pre-Qualification/Eligibility Criteria		Solvency certificate issued from bank of bidder for minimum value of Rs. 9.6 crores; not more than 6 months old.	We request you to please ammend the Solvency mini. Value of 3 crores	No change
49	Pre-Qualification / Eligibility Criteria		The bidder shall be in IT & ITES business for the last 5 years and shall have 5 years of experience as on date of floating of tender in all of the following areas: Supply and maintenance of servers, storage Supply and maintenance of networking devices like wireless Access Points with controllers /switches/ routers/NGFW etc.	We request you to please amend Part Experience should be allowed	No change
50	7.1 Payment Terms:		Payment Invoice	We request you to please amend part invoicing should be allowed	No change

51	1.2.2 (Core Switch)	104	Switch should have 1) 48 x 1/10/25G ports 2) Atleast 6 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 6 x 40/100G UL ports 1No of 100 G ports with required transceivers to connect core to core Switch	As per latest release and chipset this model of MacSec support switch does not support 1Gbps modules. Kindly the claused should be amend as-- Switch should have 1) 48 x 10/25G ports 2) Atleast 6 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 6 x 40/100G UL ports 1No of 100 G ports with required transceivers to connect core to core Switch	As per Corrigendum 1
52	1.1.5. Data Center (Technical Specification for Hyperconverged infrastructure (HCI))	99	The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster. There should not be any dependence on data locality.	The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster. Justification: Data locality is the mandatory features in HCI solution to minimize the letency in the distributed environment. Request you to not restrict bidders to bid without manadatory features.	As per Corrigendum 1
53	1.1.5. Data Center (Technical Specification for Hyperconverged infrastructure (HCI))	101	Proposed Hypervisor should be general available to work on all architectures such as Rack, Blade and HCI Infrastructures.	Proposed Hypervisor should be fully compatible to work on with proposed HCI Infrastructures. Justification: This clause is very restrictive and favouring to specific OEM so requesting you consider the suggested changes for larger industry particiaption.	As per Corrigendum 1

54	1.1.5. Data Center (Technical Specification for Hyperconverged infrastructure (HCI))		Additional Clause	1. Solution should provide Virtual Network visibility with application-centric protection from network threats andautomation of common networking operations.2. Solution should integrate with 3rd party physical network & security solutions (or their managers) from leadingOEMs using programmable REST APIs/ OpenFlow/ Netconf/ Device packages to provide integration with existingPerimeter devices (network & security).3. Solution should provide network micro segmentation using integration with existing stateful virtual firewall.The solution should provide micro segmentation management using the existing HCI management platform.4. Solution should provide creation of security groups and security policies/ rules based on parameters like virtualmachine name/ OS type/ IP addresses/ Security Tags etc.5. Solution should provide granular control and governance across VM to VM traffic or VMs pre-definedGroup/Department.6. Solution must ensure that only permitted traffic between application tiers or other logical boundaries is allowed andprotects against advanced threats propagating within the virtual environment.7. Solution should support VM's life cycle policy based firewall rules for east west traffic across VM's through onemanagement console without any third party software.8. Solution should integrate with third party network function software like virtual load balancers, virtual firewall etc.9. Solution should have zero trust policy model for connected systems or hosts.10. Solution should support traffic flows visualization with context of end-to-end Network Visibility from the VM, to thevirtual NIC all the way to the top-of-rack switch port with health and performance of the networkSolution should provide network analysis solution to collect and analyse network flows in real time and put them in thecontext of the VMs and applications which are originating from or terminating to. Users should easily understand whois talking to whom and what flows need to be allowed or blocked.11. Solution should integrate (send, receive events, alerts to &	No change

				from) with existing Network and Security monitoringtools like Network Management System (NMS), SIEM etc.12. Solution should integrate with SMTP for sending appropriate email related to different type of events/alerts for the cluster environment.	

55	1.1.5. Data Center (Technical Specification for Hyperconverged infrastructure (HCI))		Additional Clause	The proposed solution must offer native File Services, supporting SMB, NFS 3.0/4.0 & Object (S3) Protocol with the ability to scale-out. At least 10 TB for each file and object and should be able to scale upto 100TB, scale-out NAS & object space must be provided in the HCI cluster from day 1.Justification:Manadatory Clause which is misssing to have support for all the storage protocols.This is the mandatory specification hence request you to include the the same to use Scale-Out NAS and Object Storage which is needed in any data center environment.	No change
			Core Switch		
56	1.2.2 (Core Switch)	104	Switch should have 1) 48 x 1/10/25G ports 2) Atleast 6 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 6 x 40/100G UL ports 1No of 100 G ports with required transceivers to connect core to core Switch	As per latest release and chipset this model of MacSec support switch does not support 1Gbps modules for majority of the OEM's at Core Switch level. Considering above fact , the claused should be amended as-- Switch should have 1) 48 x 10/25G ports 2) Atleast 6 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 6 x 40/100G UL ports 1No of 100 G ports with required transceivers to connect core to core Switch	As per Corrigendum 1
57	1.2.2	110	Switch shall have 16GB RAM & 16 GB Flash/SSD	Every OEM have differnet Network Switch Architecture, Operating System which may have their own requirement to run the hardware & Operarting System. Restricting the RAM size to 16GB may favor to specific OEM therefore it is requested to please modify the clause as "Switch shall have at least 4GB RAM & 16GB Flash/SSD"	No change

58	1.2.2	110	Switch should support min. 32GB SSD to host 3rd party container based application	This is a Data Center Switch specific feature as Container based application are hosted on Servers at Data Center only. This feature can be OEM specific therefore for Multi-OEM participation, it is requested to delete this clause.	As per Corrigendum 1
59	1.2.2	111	Must support BGP, IS-IS, VRF, EVPN, VXLAN, OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1	IS-IS equivalent protocol is OSPF which is used in campus networks and is already asked in this clause. So make this optional.EVPN protocols are required in Internet Service Provider network due to large scale of Routing Table & VPN Instances of multiple customers. These features have no application/ usage in Campus networks therefore it is requested to modify the clause as " Must support BGP, VRF, VXLAN, IS-IS/OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1"	As per Corrigendum 1
60	1.2.2	111	Switch should support management features like SSHv2, SNMPv2c,SNMPv3, IGMP, and routing protocols such as BGPv4,IS-IS v4 or equivalent & RESTCONF from day one.	ISIS is a ISP Network specific protocol not required in Campus Network. OSPF is the equivalent protocol used in campus deployments, therefore Request to modify this clause as "Switch should support management features like SSHv2, SNMPv2c,SNMPv3, IGMP, and routing protocols such as BGPv4 IS-IS v4/OSPF & RESTCONF from day one."	As per Corrigendum 1
61	1.2.2	112	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), transreceivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Distribution Switch		

62	1.2.2	112	Must support BGP, MPLS, IS-IS, VRF, EVPN, OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN.	1) MPLS protocol is of no use in the Layer 3 switches as ROUTER is already asked in the RFP . This is just restricting participation from leading OEMs. 2) ISIS is a ISP Network specific protocol not required in Campus Network. OSPF is the equivalent protocol used in campus deployments3) EVPN protocols are required in datacenters or Internet Service Provider network due to large scale of Routing Table & VPN Instances of multiple customers. These features have no application/ usage in Campus networks therefore You are kindly equested to modify the clause as " Must support BGP, VRF, IS-IS/OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN."	As per Corrigendum 1
63	1.2.2	113	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Layer 2, 24 Port PoE Access Switch		
64	1.2.2	113	Switch Should have internal redundant power supplies with fan module from day 1.	Request to remove the redundant power supply and FANs in the L2 switches as this is of no use and it simply increases the overall cost . So request to revise this clause as "Switch Should have internal power supply and fan"	No change
65	1.2.2	113	Switch should have dedicated slot or ports for modular stacking, in addition to asked uplink ports. Should support for minimum 80 Gbps of stacking thoughput with 8 switch in single stack.	Request to remove this clause as 4x10G SFP+ is already asked which can be used for stacking/uplink. These slots are favoring a specific OEM and will never be used .	No change

66	1.2.2	114	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-128 on hardware for all ports.	MACSec would not be required in a campus solution hence we request you to kindly remove this feature from this clause Request to revise this clause as "Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment "	No change
67	1.2.2	114	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Layer 2, 12 Port PoE Access Switch		
68	1.2.2	115	Should provide minimum 185 W PoE budget	185W PoE budget in 12Port switch is not a standard and is specific to an OEM. Request you to make this 124W as this is a standard and is available with all the OEM's. Request to rephrase this clause as "Should provide minimum 124 W PoE budget."	No change
69		115	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Wireless Controller		
70		134	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Access Point - Indoor AP		
71		134	Should support Way finding within covered areas to start with.	This is an OEM specific clause, kindly remove this for wider participation	No change
72		135	Bation based Analytics	Request to relax this OEM specific clause for wider participation	As per Corrigendum 1

73		135	AP should support encrypted data transmission between user and to cloud management platform	Onprem WLC is asked in the tender so this clause has no relevance. So request to revise this clause Request to revise this clause as " AP should support encrypted data transmission between user and to Wireless Controller "	No change
74		131	Should have following compliances:- UL 60950-1 CAN/CSAC22.2 No. 60950-1 FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247 ICES003	ICES-003 certification is primarily a Canadian regulatory requirement, so please remove this from this clause Request to please rephrase this clause as "Should have following compliances:- UL 60950-1 CAN/CSAC22.2 No. 60950-1 FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247"	No change
			Access Point - Outdoor AP		
75		135	Should be Outdoor Access Point 4 X 4 MU – MIMO. SU MIMO On both the bands AP should support 802.11ax standards	Request you to make this change as the density in outdoor areas can be easily sufficied with 2x2 APs . 4x4 AP's are normally required in very very high density areas like auditoriums/stadiums etc. Request to rephrase this clause as "Should be Outdoor Access Point 2x2 MU – MIMO. SU MIMO On both the bands AP should support 802.11ax standards"	No change
76		135	Should have Data Rate Support - 2.5 Gbps or higher	Request you to make this change as the density in outdoor areas can be easily sufficied with 2x2 APs . 4x4 AP's are normally required in very very high density areas like auditoriums/stadiums etc. Request to rephrase this clause as "Should have Data Rate Support - 1.7 Gbps or higher"	No change
77		135	Should have Bluetooth support	Request to please relax this clause for wider participation	No change

78		135	Should have 10/100/1000/2500 BaseT RJ45 interface that supports 802.3at PoE	Request to please rephrase this clause as "Should have 10/100/1000 BaseT RJ45 interface that supports 802.3at PoE "	No change
79		135	Should have1 - 10/100/1000/2500 BASE-T auto-sensing RJ-45 with PoE 1 – 10/100/1000BASE-T auto-sensing RJ-45	Request to please rephrase this clause as"Should have 1 – 10/100/1000BASE-T auto-sensing RJ-45 with PoE In"	No change
80		135	Should support Dynamic debugging with automatic RF Optimization feature	This is an OEM specific clause, kindly remove this for wider participation	No change
81		135	Compliance Standards - UL 60950-1 CAN/CSAC22.2 No. 60950-1, FCC Part 15.247 / 15.407 / 15.107 / 15.109 and RSS247, ICES003 (Canada)	ICES-003 certification is primarily a Canadian regulatory requirement, so please remove this from this clause Request to please rephrase this clause as "Should have following compliances:- UL 60950-1 CAN/CSAC22.2 No. 60950-1 FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247"	No change
82		136	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
83		8	Earnest Money DepositRs.7,50,000/- in form of Bank Guarantee/ Demand Draft from a Scheduled Commercial Bank as mentioned in Annexure XXV in favour of “EdCIL (India) Limited” payable at Noida. Scanned copy to be uploaded with tender documents and original BG/ DD has to be submitted along with documents as per the Instructions to Bidders. In case EMD is submitted in the form of BG, the BG should be at least valid for 90 days beyond the bid validity date and should	Since in the tender you have mentioned relaxation to the MSME and Startup Companies for Experienece in similar work executed by the bidders similarly we request the EDCIL Management to give Relaxation of the EMD Amount for MSME & Startup BiddersWe request you to please give some relaxation in the EMD amount for MSME and start up Bidders who wish to participate in the tender and who meets the qualification criteria.	As per Corrigendum 1

84	Pre Qualification	45	Pre-Qualification/Eligibility Criteria (Clasuse 6.2 Point No 4)The bidder should be a certified ISO 9000/9001 and ISO 27001-2013 certified company. Relevant Organizational Level Certificates to be provided	Latest ISO Certification for ISO 27001-2013 is ISO 27001-2022 So please ammend the Clause as The bidder should be a certified ISO 9001: 2015 and ISO 27001:2022 certified company. Relevant Organizational Level Certificates to be provided	As per Corrigendum 1
85	Pre Qualification	47	Solvency certificate issued from bank of bidder for minimum value of Rs. 9.6 crores; not more than 6 months old.	Since in the tender you have mentioned relaxation to the MSME and Startup Companies for Experienece in similar work executed by the bidders similarly we request the EDCIL Management to give Relaxation on value of Solvency Certificate for MSME & Startup Bidders We request you to please give some relaxation on amount of Solvency Certificate for MSME and start up Bidders who wish to participate in the tender and who meets the qualification criteria. Please ammend the clause as For MSME and Startup Solvency certificate issued from bank of bidder for minimum value of Rs. 6 crores; not more than 12 months old.	No change
86	Industrial Switch	114	Sr No 1 Interface 4 x 10/100/1000Base-T Ports POE + 2 x Gigabit SFP Slots + 1 Console Port	Port Configuration asked is so generic please add below mention point in the existing clauses Should have scalability to have min 2x 10 G SFP+ Port in the same hardware in future .	No change
87	Industrial Switch	115	Sr No 8 Integration Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Please add below addition clause to have wider participation Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.Should have ibuilt mechanism to triiger the aler to administrator immediately if any connected fiber link tampered.	No change
88	Industrial Switch	116	Sr No 43 CDP Aware	Ammendment required as CDP Aware/equivalent	As per Corrigendum 1
89	Industrial Switch	116	Sr No 45 IPv6 Management	ammendment required IPv6 Management, IPV6 ready logo certification	No change

90	12 Port PoE Switch	114	Technical Specification of 12 Port Switch Should provide minimum 185 W PoE budget	For wider participation please ammend the clause as Should provide minimum 120 W PoE budget	No change
91	Wireless Controller	131	The network solution shall include Wireless LAN (WLAN) based on a centralized WLAN architecture, in which a central on premises controller (deployed in redundancy), makes all the decisions for on the wireless network and is in control of all the Access Points.	We request the ammendment as below for wider OEM Participation The network solution shall include Wireless LAN (WLAN) based on a centralized WLAN architecture, in which a central on premises/Cloud controller (deployed in redundancy), makes all the decisions for on the wireless network and is in control of all the Access Points.	No change
Technical Specification for Hyperconverged infrastructure (HCI)					
General Requirement					
92	Additional Point			HCI solution should be in leaders quadrant by latest Gartner Report for Hyperconverged Infrastructure	No change
93				The solution should be based on converged IT infrastructure platform that integrates storage, compute, networking, hypervisor, real-time deduplication, compression, and optimization and disaster recovery capabilities in a standard x86 server building block.	No change
94				The proposed HCI solution should be a factory shipped engineered & integrated appliance system. Proposed HCI solution should be 100% software defined without dependency on any proprietary hardware device for deduplication and compression.	No change
95				The proposed HCI solution should support scalability at least 16 nodes in a single cluster. Each server node should have dedicated redundant hot swap power supplies & cooling fans.	No change

96			The Solution should support compute only nodes to add virtual compute capacity to the cluster which can access storage from converged nodes, without incurring any HCI software license cost.	The solution shall provide scale-out (by adding nodes) architecture with no disruption to the workloads already running on the platform.	As per Corrigendum 1
97				The solution should support Single click non-disruptive rolling upgrades of HCI software and system firmware.	No change
98			The HCI solution should provide Inline de-duplication & compression for entire data stored in HCI. Any required resources and licenses required for this functionality should be included with the solution from day 1.	The HCI solution should provide Inline de-duplication, compression and erasure coding for entire data stored in HCI. Any required resources and licenses required for this functionality should be included with the solution from day 1.	No change
99				The solution should automatically rebalance data to maintain balanced utilization of storage across the HCI nodes using dynamic data distribution.	No change
100			The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster. There should not be any dependence on data locality.	The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster.	As per Corrigendum 1
101			HCI solution should include min. 2 Qty of interconnect switches, each supporting 18*10/25G, 4x 40/100G ports per switch with redundant power supplies and cooling fans.	HCI solution should include min. 2 Qty of interconnect switches, each supporting 48*10/25G, 6x 40/100G ports per switch with redundant power supplies and cooling fans.	No change
102			Proposed HCI Nodes should be in more than "2U" Rack Server form factor with Redundant power supplies and cooling fans.	Proposed HCI Nodes should not be more than "2U" Rack Server form factor with Redundant power supplies and cooling fans.	No change

103			The HCI should provide connectivity to external 3rd party SAN storage	HCI solution should support leveraging external physical servers access to HCI storage using native ISCSI with highly available connectivity using HCI native load balanced and distributed data architecture across all nodes in cluster	No change
104	Additional Point			The solution must be able to provide at least 35000 IOPS per node considering 8K block size and 70/30 read write ratio maintaining response time less than 5 ms.	No change
105	Additional Point			Solution should support block,object and native file storage supporting NFS v3/v4 and SMB 2.0/3.0 for Linux and Windows Guest with unlimited shares integrated with Active directory/LDAP	No change
106	Additional Point			HCI solution should support natively Microsoft and Linux based Guest VM's Clustering using block storage	No change
107	Additional Point			HCI solution must provide on the fly change of ESE(Enterprise Storage Efficiency)-Deduplication/Compression for workload without any visible impact on storage and their operations	No change
Resource Requirements					
108				Min. 2* 25Gbps network ports per server node to connect with HCI switch.	No change
109				Minimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2x6338N (32C) and 8 x 32GB or 256GB DDR4 Memory per node.	As per Corrigendum 1

110			15TB usable capacity to be configured with minimum data protection of RF2 or higher. The capacity should be absolute capacity without considering any data efficiency techniques as Data Deduplication, compression, erasure coding etc. Each offered drive in each proposed HCI appliance shall have dedicated space for caching configured in High availability mode. Proposed caching space shall be configured in High availability and shall be supported with at-least dual drive failure per node.	15TB usable capacity to be configured with minimum data protection of RF2 or higher. The capacity should be absolute capacity without considering any data efficiency techniques as Data Deduplication, compression, erasure coding etc. This usable capacity must be all flash storage (ssd).	As per Corrigendum 1
111	Additional Point			Each node should have redundant SSD boot drive or M2 drive of minimum 240GB in RAID 1 configuration for high availability. Boot disks should be in addition to the usable disk and cache capacity.	No Change
HCI Management					
112				The proposed solution should have dashboard to show overall faults, health and inventory.	No change
113				The HCI solutions must provide features like policy-based security.1. The proposed solution should be able to provide Data-At_Rest- Encryption for additional data security2. The proposed solution should be offered with Local key management solution and shall be certified to work with external key management solutions3. The proposed solution shall have capability to enable the key management from a single console for both local and external keymanagement solution.	No change
114	Additional Point			The solution should have capability of troubleshooting and operational management in the virtualized environment.	No change

115	Additional Point			The proposed solution should provide application lifecycle management with automated orchestration across multiple hypervisor and cloud.	No change
116	Additional Point			The solution should provide capacity analytics which can identify over-provisioned and under-provisioned resources so they can be right- sized for most efficient use of virtualized resources.	No change
Virtualization and Automation					
117				1. Offered Hyper-converge platform shall support individual VM- centric policy-based backup, recovery and DR. All necessary software like backup software, if required, shall be supplied. 2. Hyper-converged solution shall have in-built support for container storage interface (CSI) and shall be qualified to work with Container platforms based upon open source kubernetes.	No change
118				HCI Virtualization software should be supported with leading Operating systems - like Windows client, Windows Server, Red Hat, SUSE, Ubuntu	No change
119				Virtualization manager should be provided along with the solution.	No change
120				The solution should Track, report, and view trends for compute, storage and database metrics like CPU, memory, IOPs, latency, and Database Transaction etc.	No change
121			Proposed Hypervisor should be general available to work on all architectures such as Rack, Blade and HCI Infrastructures.	Remove the clause as AHV works only in HCI mode.	Point removed
122				HCI Node and SDS layer should be fully compatibile to avoid any compatibility issues.	No change

123	1.1.4. Biometric and Card Attendance system	97	CPU 400MHz ARM 9 based Processor	Kindly change as below >>CPU – ARM 8 based processor, or above.	As per Corrigendum 1
			Core Switch		
124	1.2.2. Local Area Network (LAN) including management	110	Switch should have 1) 48 x 1/10/25G ports 2) Atleast 6 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 6 x 40/100G UL ports 1No of 100 G ports with required transceivers to connect core to core Switch	As per design requirement mentioned in the RFP and Considering present port configuration all 6x 40/100G port will be used (5x40G ports for distribution connectivity and 1x100G Port for core to core connectivity) and there is no future expression possible also connected distribution on core uplink port is not a best practice. Hence request you to please change this to 1) 48 x 1/10/25G ports 2) Atleast 12 x 40/100G ports populated with required 40G transceivers/DAC cables. 3) Out of 12 x 40/100G UL ports 2 No of 100 G ports with required transceivers to connect core to core Switch 4) Switch Should have 2 free slots available for future expension.	As per Corrigendum 1
125	1.2.2. Local Area Network (LAN) including management	110	Switch shall be 1U and rack mountable in standard 19" rack.	Request you to please change this to "Switch shall be chassis based and rack mountable in standard 19" rack.	No change
			Layer 2, 24 Port PoE Access Switch		

126	1.2.2. Local Area Network (LAN) including management	113	Switch shall have minimum 8 nos of 1/ 2.5 POE+ and 16 ports of 1G PoE+ and additional modular 4 nos. SFP+ uplinks ports.	As requirement is for 4x10G ports only, Hence request you to please change this to Switch shall have minimum 8 nos of 1/ 2.5 POE+ and 16 ports of 1G PoE+ and additional 4 nos. SFP+ uplinks ports."	As per Corrigendum 1
			Technical Specification of 12 Port Switch		
127	1.2.2. Local Area Network (LAN) including management	115	Should have minimum: 12-Port 10/100/1000 Mbps PoE/PoE+, 2 x 1G/10G SFP+ slots uplink-ports	No OEM 12 Port switch comes with slot all comes with Fix Ports, Hence request you to please change this to "Should have minimum: 12-Port 10/100/1000 Mbps PoE/PoE+, 2 x 1G/10G SFP+ uplink-ports"	As per Corrigendum 1
			Technical Specification of NMS		
128	1.2.2. Local Area Network (LAN) including management	118	Must provide management solution that should be able to manage wired, wireless & Security components of 3rd party OEM'S	Security solution comes with seprare NMS, Hence request you to please change this to "Must provide management solution that should be able to manage wired, wireless of 3rd party OEM'S"	As per Corrigendum 1
			Technical Specification of Router		
129	1.2.2. Local Area Network (LAN) including management	122	Should support L2 Transparent mode	FW functionality, Hence request you to please remove the same for wider participation.	No change
130		123	Should support category/reputation-based URL filtering	Only Application when Router runnuing in SD-WAN model, Hence request you to please remove this point for wider participation.	No change

131		123	Should support for application quality experience which enables to effectively prioritize, segregate, and route business-critical applications traffic without compromising performance or availability.	Only Application when Router runnuing in SD-WAN model, Hence request you to please remove this point for wider participation.	No change
132		123	Should support the capability of application identification and advanced policy-based routing to identify specific applications in the network and to specify a path for the application traffic according (service-level agreement) SLA rules while monitoring RTT, jitter, and packet loss on each link.	Only Application when Router runnuing in SD-WAN model, Hence request you to please remove this point for wider participation.	No change
133		123	Should support function to seamlessly diverts applications to an alternate path if the performance of the primary link is below acceptable levels as specified by the SLA	Only Application when Router runnuing in SD-WAN model, Hence request you to please remove this point for wider participation.	No change
			Wireless Controller		
134	1.2.3. WI-FI Systems	133	WLC Should have Rogue AP detection, classification and standard WIPS.	Request you to please change this for better understanding "WLC Should have Rogue AP detection, classification and supports standard WIPS."	As per Corrigendum 1
			Indoor Access		
135		134	The Access Point proposed must have radios to support 2.4Ghz / 5 Ghz channels with 802.11ac Wave-2, 802.ax. 4X4:4 MU-MIMO with a throughput of atleast 2.5 Gbps or higher.	Request you to please change the same for better understanding"The Access Point proposed must have radios to support 2.4Ghz / 5 Ghz channels with 802.11ac Wave-2, 802.ax. 4X4:4 MU-MIMO in both the bands with a throughput of atleast 2.5 Gbps or higher."	As per Corrigendum 1
136		134	Access point should have a Gigabit link that can support atleast 1 Gbps of throughput.	In RFP Access Switches are already Multigig Hence request you to please change this to "Access point should have 1x 100, 1000, 2500 Multigigabit Ethernet port link that can support atleast 5 Gbps of throughput."	No change

			Access Point - Outdoor AP (4X4:4)		
137		135	Should be Outdoor Access Point 4 X 4 MU – MIMO. SU MIMO On both the bands AP should support 802.11ax standards	Request you to please change the same for better understanding"Should be Outdoor Access Point 4 X 4 MU – MIMO in both bands. SU MIMO On both the bands AP should support 802.11ax standards."	No change
			Firewall		
138	Technical specifications for Firewall	124	4.5 GbPS of threat prevention with App Control, Anti Virus, Anti Bot, IPS, File blocking and logging enabled.	Request you to please change this to "4.5 GbPS of threat prevention with App Control, Anti Virus, Anti Bot, IPS, File blocking and logging enabled or 10 Gbps with Application Control , IPS and Firewalling enabled" for wider participation.	No change
139		124	Firewall should support at least 100,000 connections per second	Request you to please change this to "Firewall should support at least 90,000 or higher connections per second" for wider participation.	No change
140			Firewall should support Nat66 (IPv6-to-IPv6)or equivalent, dual stack, Nat 64 (IPv6-to-IPv4) functionality	Nat 46 has become important since IPv6 is being used over the internet and internal networks usually have IPv4 which need to get natted to IPv6 for smooth operations. Hence request you to please change this to "Firewall should support Nat66 (IPv6-to-IPv6)or equivalent, dual stack, Nat 64 (IPv6-to-IPv4) functionality and NAT 46 (IPv6-to-IPv4) functionality"	No change
			HCI		
141	1.1.5. Data Center	99	The Solution should support compute only nodes to add virtual compute capacity to the cluster which can access storage from converged nodes, without incurring any HCI software license cost.	Request you to please change for wider participation. The solution shall provide scale-out (by adding nodes) architecture with no disruption to the workloads already running on the platform.	As per Corrigendum 1
142		99	The HCI solution should provide Inline de-duplication & compression for entire data stored in HCI. Any required resources and licenses required for this functionality should be included with the solution from day 1.	Request you to please change for wider participation. The HCI solution should provide Inline de-duplication, compression and erasure coding for entire data stored in HCI. Any required resources and licenses required for this functionality should be included with the solution from day 1.	No change

143		99	The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster. There should not be any dependence on data locality.	The HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster.	As per Corrigendum 1
144		99	HCI solution should include min. 2 Qty of interconnect switches, each supporting 18*10/25G, 4x 40/100G ports per switch with redundant power supplies and cooling fans.	HCI solution should include min. 2 Qty of interconnect switches, each supporting 48*10/25G, 6x 40/100G ports per switch with redundant power supplies and cooling fans.	No change
145		99	Proposed HCI Nodes should be in more than "2U" Rack Server form factor with Redundant power supplies and cooling fans.	Proposed HCI Nodes should not be more than "2U" Rack Server form factor with Redundant power supplies and cooling fans.	No change
146		99	The HCI should provide connectivity to external 3rd party SAN storage	HCI solution should support leveraging external physical servers access to HCI storage using native ISCSI with highly available connectivity using HCI native load balanced and distributed data architecture across all nodes in cluster	No change
147		99	15TB usable capacity to be configured with minimum data protection of RF2 or higher. The capacity should be absolute capacity without considering any data efficiency techniques as Data Deduplication, compression, erasure coding etc. Each offered drive in each proposed HCI appliance shall have dedicated space for caching configured in High availability mode. Proposed caching space shall be configured in High availability and shall be supported with at-least dual drivefailure per node.	15TB usable capacity to be configured with minimum data protection of RF2 or higher. The capacity should be absolute capacity without considering any data efficiency techniques as Data Deduplication, compression, erasure coding etc. This usable capacity must be all flash storage (ssd).	As per Corrigendum 1

148		99	Proposed Hypervisor should be general available to work on all architectures such as Rack, Blade and HCI Infrastructures.	Remove the clause as AHV works only in HCI mode.	Point removed
			Core Switch		
149	1.2.2	110	Switch shall have 16GB RAM & 16 GB Flash/SSD	Every OEM have differnet Network Switch Architecture, Operating System which may have their own requirement to run the hardware & Operarting System. Restricting the RAM size to 16GB may favor to specific OEM therefore it is requested to please modify the clause as "Switch shall have at least 4GB RAM & 16GB Flash/SSD"	No change
150	1.2.2	110	Switch should support min. 32GB SSD to host 3rd party container based application	This is a Data Center Switch specific feature as Container based application are hosted on Servers at Data Center only. This feature can be OEM specific therefore for Multi-OEM participation, it is requested to delete this clause.	As per Corrigendum 1
151	1.2.2	111	Must support BGP, IS-IS, VRF, EVPN, VXLAN, OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1	IS-IS equivalent protocol is OSPF which is used in campus networks and is already asked in this clause. So make this optional.EVPN protocols are required in Internet Service Provider network due to large scale of Routing Table & VPN Instances of multiple customers. These features have no application/ usage in Campus networks therefore it is requested to modify the clause as " Must support BGP, VRF, VXLAN, IS-IS/OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1"	As per Corrigendum 1

152	1.2.2	111	Switch should support management features like SSHv2, SNMPv2c,SNMPv3, IGMP, and routing protocols such as BGPv4,IS-IS v4 or equivalent & RESTCONF from day one.	ISIS is a ISP Network specific protocol not required in Campus Network. OSPF is the equivalent protocol used in campus deployments, therefore Request to modify this clause as "Switch should support management features like SSHv2, SNMPv2c,SNMPv3, IGMP, and routing protocols such as BGPv4 IS-IS v4/OSPF & RESTCONF from day one."	As per Corrigendum 1
153	1.2.2	112	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), transreceivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Distribution Switch		
154	1.2.2	112	Must support BGP, MPLS, IS-IS, VRF, EVPN, OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN.	1) MPLS protocol is of no use in the Layer 3 switches as ROUTER is already asked in the RFP . This is just restricting participation from leading OEMs. 2) ISIS is a ISP Network specific protocol not required in Campus Network. OSPF is the equivalent protocol used in campus deployments3) EVPN protocols are required in datacenters or Internet Service Provider network due to large scale of Routing Table & VPN Instances of multiple customers. These features have no application/ usage in Campus networks therefore You are kindly equested to modify the clause as " Must support BGP, VRF, IS-IS/OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN."	As per Corrigendum 1

155	1.2.2	113	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Layer 2, 24 Port PoE Access Switch		
156	1.2.2	113	Switch Should have internal redundant power supplies with fan module from day 1.	Request to remove the redundant power supply and FANs in the L2 switches as this is of no use and it simply increases the overall cost . So request to revise this clause as "Switch Should have internal power supply and fan"	No change
157	1.2.2	113	Switch should have dedicated slot or ports for modular stacking, in addition to asked uplink ports. Should support for minimum 80 Gbps of stacking thoughput with 8 switch in single stack.	Request to remove this clause as 4x10G SFP+ is already asked which can be used for stacking/uplink. These slots are favoring a specific OEM and will never be used .	No change
158	1.2.2	114	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-128 on hardware for all ports.	MACSec would not be required in a campus solution hence we request you to kindly remove this feature from this clause Request to revise this clause as "Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment "	No change
159	1.2.2	114	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Layer 2, 12 Port PoE Access Switch		
160	1.2.2	115	Should provide minimum 185 W PoE budget	185W PoE budget in 12Port switch is not a standard and is specific to an OEM. Request you to make this 124W as this is a standard and is available with all the OEM's. Request to rephrase this clause as "Should provide minimum 124 W PoE budget."	No change

161		115	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Wireless Controller		
162		134	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
			Access Point - Indoor AP		
163		134	Should support Way finding within covered areas to start with.	This is an OEM specific clause, kindly remove this for wider participation	No change
164		135	Bation based Analytics	Request to relax this OEM specific clause for wider participation	As per Corrigendum 1
165		135	AP should support encrypted data transmission between user and to cloud management platform	Onprem WLC is asked in the tender so this clause has no relevance. So request to revise this clause Request to revise this clause as " AP should support encrypted data transmission between user and to Wireless Controller "	No change
166		131	Should have following compliances:-UL 60950-1 CAN/CSAC22.2 No. 60950-1FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247ICES003	ICES-003 certification is primarily a Canadian regulatory requirement, so please remove this from this clause Request to please rephrase this clause as "Should have following compliances:-UL 60950-1 CAN/CSAC22.2 No. 60950-1FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247"	No change
			Access Point - Outdoor AP		

167		135	Should be Outdoor Access Point 4 X 4 MU – MIMO. SU MIMO On both the bands AP should support 802.11ax standards	Request you to make this change as the density in outdoor areas can be easily sufficied with 2x2 APs . 4x4 AP's are normally required in very very high density areas like auditoriums/stadiums etc. Request to rephrase this clause as "Should be Outdoor Access Point 2x2 MU – MIMO. SU MIMO On both the bands AP should support 802.11ax standards"	No change
168		135	Should have Data Rate Support - 2.5 Gbps or higher	Request you to make this change as the density in outdoor areas can be easily sufficied with 2x2 APs . 4x4 AP's are normally required in very very high density areas like auditoriums/stadiums etc. Request to rephrase this clause as "Should have Data Rate Support - 1.7 Gbps or higher"	No change
169		135	Should have Bluetooth support	Request to please relax this clause for wider participation	No change
170		135	Should have 10/100/1000/2500 BaseT RJ45 interface that supports 802.3at PoE	Request to please rephrase this clause as "Should have 10/100/1000 BaseT RJ45 interface that supports 802.3at PoE "	No change
171		135	Should have1 - 10/100/1000/2500 BASE-T auto-sensing RJ-45 with PoE 1 – 10/100/1000BASE-T auto-sensing RJ-45	Request to please rephrase this clause as"Should have 1 – 10/100/1000BASE-T auto-sensing RJ-45 with PoE In"	No change
172		135	Should support Dynamic debugging with automatic RF Optimization feature	This is an OEM specific clause, kindly remove this for wider participation	No change
173		135	Compliance Standards - UL 60950-1 CAN/CSAC22.2 No. 60950-1, FCC Part 15.247 / 15.407 / 15.107 / 15.109 and RSS247, ICES003 (Canada)	ICES-003 certification is primarily a Canadian regulatory requirement, so please remove this from this clause Request to please rephrase this clause as "Should have following compliances:-UL 60950-1 CAN/CSAC22.2 No. 60950-1FCC Part 15.247, 15.407 / 15.107 / 15.109 RSS247"	No change

174		136	Switches, trans receivers, wireless controllers and access points should be from the same OEM for better integration.	Request to please rephrase this clause as "Switches(Except industrial grade switches), trans receivers, wireless controllers and access points should be from the same OEM for better integration. "	No change
175	ChapterVIII (Annexure XVIII)	Page No. 99	Minimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2x6338N (32C) and 8 x 32GB or 256GB DDR4 Memory per node.	6338N is OEM specific SKU , Please change this for wider participation. Minimum 3 Nodes should be provided in the cluster. Each Node to be provided with minimum 2x6338 (32C) and 8 x 32GB or 256GB DDR4 Memory per node.	As per Corrigendum 1
176	Technical Specification of Core Switch		Must support BGP, IS-IS, VRF, EVPN, VXLAN, OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1	Must support BGP/IS-IS, VRF, EVPN, VXLAN, OSPF Routed Access, Policy-Based Routing (PBR), PIM SM, and Virtual Router Redundancy Protocol (VRRP) from Day 1	As per Corrigendum 1
177			Switch should support management features like SSHv2, SNMPv2c, SNMPv3, IGMP, and routing protocols such as BGPv4,IS-IS v4 or equivalent & RESTCONF from day one.	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, IGMP, and routing protocols such as BGPv4/IS-IS v4 or equivalent & RESTCONF from day one.	As per Corrigendum 1
178	Technical Specification of Distribution Switch		Switch shall have 2 GB RAM and 2 GB Flash	Switch shall have 8 GB RAM and 8 GB Flash	No change
179	Technical Specification of Distribution Switch		Switch should support minimum 5K ACLs, 8K Multicast and 32KIPv4, 16K IPv6 Routes..	Switch should support minimum 5K ACLs, 4K Multicast and 24KIPv4, 12K IPv6 Routes..	As per Corrigendum 1

180	Technical Specification of Distribution Switch		Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.1ae (256-bit and 128-bit AES), 802.3x, 802.1p, 802.1Q, 1588v2/NTP	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad/802.1ae (256-bit and 128-bit AES), 802.3x, 802.1p, 802.1Q, 1588v2/NTP	No change
181	Technical Specification of Distribution Switch		Should support AES-128/256 support with MACSEC encryption algorithm on hardware	Should support AES-128/256 support with MACSEC encryption algorithm on hardware or Support GRE tunnel	No change
182	Technical Specification of Distribution Switch		Must support BGP, MPLS, IS-IS, VRF, EVPN, OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN.	Must support BGP/ MPLS/ IS-IS, VRF, EVPN, OSPF, PIM SM and VRRP/HSRP, must have RIP, OSPF routed access, PBR, VXLAN.	As per Corrigendum 1
183	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should have minimum 1 GB RAM and 1 GB Flash.	Switch should have minimum 4 GB RAM and 4 GB Flash.	No change
184	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should have dedicated slot or ports for modular stacking, in addition to asked uplink ports. Should support for minimum 80 Gbps of stacking thoughput with 8 switch in single stack.	Switch should have dedicated slot or ports for modular stacking or uplink ports. Should support for minimum 40 Gbps of stacking thoughput with 8 switch in single stack.	No change

185	Technical Specification of Layer 2, 24 Port PoE Access Switch		The switch shall have minimum 250Gbps of switching fabric orhigher and 150 mbps or higher of forwarding rate.	The switch shall have minimum 250Gbps of switching fabric orhigher and 130 mbps or higher of forwarding rate.	No change
186	Technical Specification of Layer 2, 24 Port PoE Access Switch		Should support minimum 11K IPv4 routes or more	Should support minimum 2K IPv4 routes or more	No change
187	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should support 64 or more STP Instances.	Switch should support 16 or more STP Instances.	No change
188	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch must have functionality like static routing, RIP, PIM, OSPF, VRRP, PBR and QoS features from Day1	Switch must have functionality like static routing, RIP, PIM, OSPF, VRRP/PBR and QoS features from Day1	No change

189	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should support network segmentation that overcomes the limitation of VLANs using VXLAN and VRFs.	Switch should support network segmentation that overcomes the limitation of VLANs using VXLAN/ VRFs.	No change
190	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should support IPv6 Binding Integrity Guard, IPv6 Snooping,IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbour DiscoveryInspection and IPv6 Source Guard	Switch should support IPv6 Binding Integrity Guard/IPv6 Snooping,IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbour DiscoveryInspection / IPv6 Source Guard	As per Corrigendum 1
191	Technical Specification of Layer 2, 24 Port PoE Access Switch		Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-128 on hardware for all ports.	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment or MACSec-128 on hardware for all ports.	No change
192	Technical Specification of 12 Port Switch		Should provide minimum 185 W PoE budget	Should provide minimum 135 W PoE budget	No change
193	Technical Specification of 04 Port industrial Grade Switch		Q-in-Q	Remove the clause	Point removed

194			Supports IGMP Snooping/MLD Snooping, Multicast VLAN Registration (MVR)	Supports IGMP Snooping/MLD Snooping, Multicast VLAN Registration (MVR)/MVRP	As per Corrigendum 1
195	Industrial grade switch		CDP Aware	CDP Aware or LLDP	As per Corrigendum 1
196	NMS		NMS should be hardware/appliance-based controller OR software/virtual machine-based. Must be able to support minimum 300 devices from day one and should be scalable to support minimum 2500 devices on the same appliance	NMS should be hardware/appliance-based controller OR software/virtual machine-based. Must be able to support minimum 300 devices from day one and should be scalable to support minimum 2000 devices on the same appliance	No change
197	NMS		Must provide centralized management that should be able to managewired, wireless & security components of 3rd party OEM's.	Must provide centralized management that should be able to manage wired, wireless & security.	As per Corrigendum 1

198	AAA		Solution should support which allows users to add a device on a portal, where the device goes through a registration process for network access. Should allow users to mark as lost any device that you have registered in the network, and blacklist the device on the network, which prevents others from unauthorized network access when using the blacklisted device. Should have capability to reinstate a blacklisted device to its previous status in Device Portal, and regain network access without having to register the device again in the Devices Portal. Should also support removing any device in the enterprise network temporarily, then register the device for network access again later.	Request to reove the clause.	Point removed
199	AAA		should support a wide range of access control mechanisms, including downloadable access control lists (dACLs), VLAN assignments, URL redirect, and Security Group Access (SGA) tagging.	should support a wide range of access control mechanisms, including downloadable access control lists (dACLs), VLAN assignments, URL redirect/ Security Group Access (SGA) tagging.	As per Corrigendum 1