ERNET's Response to the Vendors Queries for the tender for Supply, Installation, Commissioning & Integration of network equipment (active / passive) for establishing Wi-Fi enabled Campus Area Network at Clients site. – reg.

S.No.	Clause No.	Description of the Clause	Queries from Vendors/OEMs.	ERNET's Clarification / Reply
1.	Clause No. 10, Eligibility Criteria, (a) For Bidders, Point No. (iii)	Bidder should have the experience of successfully executing similar projects in last 5 financial years and must enclose relevant copies of the customer purchase orders along with scope of work, deliverables, time period of execution, project value and satisfactory work completion certificate from client for at-least one similar project of value not less than Rs. 24 Cr. or Two similar projects of value not less than Rs. 12 Cr. each or Three similar projects of value not less than Rs. 9 Cr. each. Copy of purchase orders should be submitted as a proof. **Definition of similar work/ project: Supply, Installation & Commissioning of IT Infrastructure consisting of LAN/WAN/CAN/ wireless networks executed in last five years in India.**	**Query-1** As this RPF is to empanel SI for implementation of Wi-Fi enabled Campus Area Networks for the period of 24 Months (2 years) and order value upto 30 Cr. In multiple orders as per requirements from universities / institutes/ organization. We request ERNET to relax executed purchase order value clause as it will restrict prospective Sis and limit competitive bids only from large service providers. **Query-2** It's clearly defined that total amount of work is 30 cr with an upside of 20% i.e. total value is restricted up to 36 cr. Now since ERNET intends to empanel maximum three vendors and this empanelment is for two years. In this scenario total work allotted for each bidder comes out to be 5cr. It is suggested that similar project value of single order should not be more than 3 Cr as 24 Cr value for single project is on higher side. **Query-3** We are registered ERNET vendor and interested to participate. We are looking forward for ERNET to give relaxation as 2 Cr. Rupees executed order and allow registered vendors to participate instead of	**Explanation of the clause:** "The term 'wireless' used in the definition of similar work means 'Wi-fi'."

			such project values.	
			Query-4	
			We would request to amend the clause as Bidder should have the experience of successfully executing similar projects in last 10 financial years and must enclose relevant copies of the customer purchase orders along with scope of work, deliverables, time period of execution, project value and satisfactory work completion certificate from client for at-least one similar project value not less than Rs. 24 Cr. Or two similar projects of value not less than Rs. 12 Cr. each or Three similar projects of value not less than Rs. 9 Cr. each. Copy of purchase orders should be submitted as a proof. By putting such clause this is restricting prospective bidder to participate in your valuable tender, we would request to amend the clause for maximum and competitive participation.	
			Query-5 More clarification required specially on highlighted wireless networks in terms of experience.	
2.	Clause No. 10, Eligibility Criteria, (a)For Bidders Point No. (ix)	The bidder should have annual average turnover of Rs. 45 Crores in below mentioned three financial years. The Bidder should be profit making company in any one of the last three financial years. The bidder must also have positive net worth as of 31st March 2016. Attested audited copies of the bidders" annual reports for the years	**Query-1** The bidder should have annual average turnover of Rs. 100 Crores in below mentioned three financial years. The Bidder should be profit making company in any one of the last three financial years. The bidder must also have positive net worth as of 31st March 2016. Attested audited copies of the bidders" annual reports for the years 2013-14,	No Change

| | | 2013-14, 2014-15 and 2015-16 have to be attached along with a certificate from a practicing Charted Accountant on his letter head confirming annual turnover, net profit, positive net worth& average annual turnover during each of these years. | 2014-15 and 2015-16 have to be attached along with a certificate from a practicing Charted Accountant on his letter head confirming annual turnover, net profit, positive net worth& average annual turnover during each of these years.

Considering the project sustenance of 3 yrs warranty and another 2 years of extended AMC, we would request that the turnover should be made more sound and profitability for last 3 years should be considered assuring ERNET that firms with sound financial strength would participate for smoother execution and maintenance of the project.

Query-2
It is requested to restricts annual average turnover to 10 Cr as total work per bidders is not more than 5 Cr per annum

Query-3
The Bidder should be profit making company in any one of the last three financial years. The bidder must also have positive net worth in any one of the last three financial year as on 31st March 2016 because Profit and Positive net worth belong to each other so clause should be same for profit and net worth for both. | |
| **3.** | Clause No. 10, Eligibility Criteria, (a)For Bidders (iv) | The bidder must enclose copy of LAN/ / Network work order(s) of laying of minimum 5 Kms of Fibre optical cable with at least 100 Fibre Terminations and 500 UTP nodes in any of the last five years in India. | **Query-1**
The bidder must enclose copy of LAN/ WAN/MAN work order(s) having installed 500 access point / Switches. The bidder should have technical competency of providing LAN / WAN / MAN solution | No Change |

| | | | having expertise of wired / wireless solution deployment.

Query-2
It is requested to change "LAN/WAN/Network work order (s) of laying of minimum 50 Kms of fibre optical cable with at least 500 Fiber Terminations and 500 UTP nodes in any of the last five years of in India | |

| 4. | Clause No. 10, Eligibility Criteria, (a)For Bidders Point No. (xx) | For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches (Core Switches, & Access Switches) of the same make (OEM) and must be managed by the same NMS offered/quoted. | **Query-1**
For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches and wireless (Core Switches, & Access Points)of the same make (OEM)and must be managed by the same NMS offered/ quated. Since the campus network is to be deployed in its entirety including wired and wireless it is imperative that both wired and wireless LAN are from the same OEM, therefore reducing operation cost and implementation simplicity.
Query-2
For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches and wireless (Core Switches, & Access Points)of the same make (OEM)and must be managed by the same NMS offered/ quated. Since the campus network is to be deployed in its entirety including wired and wireless it is imperative that both wired and wireless LAN are from the same OEM, therefore reducing operation cost and implementation | No Change |

No.	Clause	Existing	Query	Response
			having expertise of wired / wireless solution deployment. **Query-2** It is requested to change "LAN/WAN/Network work order (s) of laying of minimum 50 Kms of fibre optical cable with at least 500 Fiber Terminations and 500 UTP nodes in any of the last five years of in India	
4.	Clause No. 10, Eligibility Criteria, (a)For Bidders Point No. (xx)	For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches (Core Switches, & Access Switches) of the same make (OEM) and must be managed by the same NMS offered/quoted.	**Query-1** For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches and wireless (Core Switches, & Access Points)of the same make (OEM)and must be managed by the same NMS offered/ quated. Since the campus network is to be deployed in its entirety including wired and wireless it is imperative that both wired and wireless LAN are from the same OEM, therefore reducing operation cost and implementation simplicity. **Query-2** For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote all the switches and wireless (Core Switches, & Access Points)of the same make (OEM)and must be managed by the same NMS offered/ quated. Since the campus network is to be deployed in its entirety including wired and wireless it is imperative that both wired and wireless LAN are from the same OEM, therefore reducing operation cost and implementation	No Change

		simplicity.		
5.	Clause No. 10, Eligibility Criteria, (b) For OEM(s)/Manufacturer(s) Point No. (ii)	The OEM(s) of networking &Wireless equipment being quoted/offered in the tender should have an installed base in India and should have at least one installation of its networking equipment (with minimum 1000 ports on data network switches and at least one chassis based layer 3 switch) & and Wireless (minimum 500 Access Points with Wireless LAN Controller) in India. Relevant documentary proof should be submitted. OEM for WLAN equipment should have installed base of at least 10000 Wi-fi access points in India. Relevant Documentary proof should be submitted. OEM of passive components should have at least one installations with at least 100 fiber terminations and 2000 UTP nodes. Relevant documentary proofs should be submitted.	**Query-1** Recommended to change. The OEM(s) of networking & Wireless equipment being quoted/offered in the tender should have an installed base in India and should have at least one installation of its networking equipment (with minimum 500 ports on data network switches and at least one chassis based layer 3 switch) & and Wireless (minimum 250 Access Points with Wireless LAN Controller) in India. Relevant documentary proof should be submitted. OEM for WLAN equipment should have installed base of at least 1000 Wi-Fi access points in India. Relevant Documentary proof should be submitted. OEM of passive components should have at least one installation with at least 100 fiber terminations and 500 UTP nodes. Relevant documentary proofs should be submitted. **Query-2** We understand from this clause that a separate PO is required for networking equipment (Switch) and a separate PO is required for wireless. Please clarify if the understanding is correct. **Query-3** We have installed 350 access points as an experience instead of 500 access points…can this this be consider for an experience.	No Change

6.	Clause No. 10, Eligibility Criteria, (b)For OEM(s)/ Manufacturer(s) Point (iv)	OEM should authorize maximum of two bidders only. The Bids received with a single OEM from more than two bidders would lead to rejection of all bids of that particular OEM. An Undertaking from OEM to this effect should be submitted.	**Query-1** This clause is limiting the OEM participation across multiple bidders. Due to this clause, Technically qualified & financially viable OEM solution would not be bid by the system integrators, which will further impact the overall project in terms of commercials and participation. Hence we would request ERNET to kindly delete this clause.	No Change
	Clause No. 10, Eligibility Criteria, (b) For OEM(s)	Additional Point	**Query-1** There has been some recent acquisitions on some of the OEM space and some large OEM's have acquired to written the commitment to the end customer/ERNET, the acquirer /purchaser OEM should give certificate for incessant services to ERNET and so that the customer gets an uninterrupted services for the project.	Not accepted
7.	Clause No. 13, EARNEST MONEY DEPOSIT Point No. (i)	Each bid must be accompanied by Earnest Money Deposit (EMD) of Rs.30, 00,000/- (Rupees Thirty lakhs only) shall be in the form of Demand Draft/Pay Order/EM Fixed deposit/Bank Guarantee of any Nationalized/Scheduled commercial Bank taken in the name of ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 180 days from due date of the bid & be submitted in compliance with the clause no. 25 (xiv). The Performa for bid submission of BG is enclosed at annexure – III B. Bids received without Earnest Money Deposit or not confirming to the above and /or with	**Query-1** We want to bring into your kind notice that firms registered with the National Small Industries Corporation (NSIC) are exempted from payment of EMD & Tender Document Fee. We request you to relax tender Document Fee & EMD Submission clause as per NSIC guidelines & accept the NSIC registration certification. **Query-2** Request you to reduce the EMD value to INR 5 Lakhs. **Query-3** We request you to kindly relax the stated clause as we are registered with NSIC and	No Change

		short period of validity are liable to be rejected.	MSME under single point registration scheme and are exempted from paying EMD and tender fee. We are hereby attaching our NSIC registration certificate against EMD and Tender fee. Kindly consider our request to relax the clause foe bidder registered with NSIC and MSME.	
8.	Clause No. 14, PAYMENT TERMS: Pt. (ii)	Payment in respect of rupee value components: 80 percent (%) payment shall be made by ERNET India after delivery and satisfactory completion of installation, commissioning, integration, testing and acceptance of the complete solution as well as receipt of pre-receipted bill in duplicate. The vendor has also an option to claim 100% payment at this stage through submission of bank guarantee (BG) valid for 39 months and equivalent to 20 % of the value of purchase order to cover the warranty period of 3 years from the date of last acceptance. If vendor has not opted for 100% payment as above, then balance 20% percent payment of rupee value components of purchase order after deducting all penalties (if any) would be released in 6 equal instalments on half yearly basis during the warranty period (3 years) upon successful completion of every quarter as well as receipt of pre-receipted bill in triplicate.	**Query-1** Recommended payment under 1. 70 % on the delivery of material 2. 20% on installation and commissioning 3. 10% against bank Guarantee of equal Amount	No Change

9.	Clause No. 14, PAYMENT TERMS: Pt. (iii)	For Passive Components: 80 percent (%) payment shall be made by ERNET India after delivery and satisfactory completion of installation, commissioning, integration, testing and acceptance of the complete solution (including active component) with actual supplied/installed/consumed quantities/ items within the overall purchase order (PO) value of the Passive components as well as receipt of pre-receipted bill in duplicate. The vendor has also an option to claim 100% payment at this stage through submission of bank guarantee (BG) valid for 39 months and equivalent to 20 % of the value of purchase order to cover the warranty period of 3 years from the date of last acceptance.	**Query-1** Recommended payment under 4. 70 % on the delivery of material 5. 20% on installation and commissioning 6. 10% against bank Guarantee of equal Amount	No Change
10.	Clause No. 15, WARRANTY/AMC: Point No. (ix)	Payments for yearly AMC (if awarded) will be released after deducting all penalties (if any) in 2 equal instalments on half yearly basis over the period of AMC support upon successful completion of every quarter.	**Query-1** Payments for yearly AMC (if awarded) will be released after deducting all penalties (if any) in 12 equal instalments on monthly basis over the period of AMC support upon successful completion of every quarter	No Change
11.	Clause No. 17, PENALTY CLAUSE FOR NON CONFORMANCE TO ABOVE SLA: Pt. (i)	For critical components namely Switch, Wireless Controller & Authentication server: ERNET India may deduct Rs. 1000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the	**Query-1** For critical components namely Switch, Wireless Controller & Authentication server: ERNET India may deduct Rs. 1000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time	No Change

		total hours of downtime permissible. Beyond 10 hours of down time, ERNET may deduct Rs. 3000/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts. For noncritical components namely Wireless Access Point: ERNET may deduct Rs. 200/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET may deduct Rs. 500/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.	shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET may deduct Rs. 1000/- from the due Payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts. For noncritical components namely Wireless Access Point: ERNET may deduct Rs. 50/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hours of down time at a stretch or in part up to total down time of 10 hours. This down time shall be calculated over and above the total hours of downtime permissible. Beyond 10 hours of down time, ERNET may deduct Rs. 500/- from the due payments or recovered from Bank Guarantee as the case may be for every 1 hour of down time at stretch or in parts.	
12.	Clause No. 19, DELIVERY PERIOD pt. (i)	The successful bidder(s) have to complete the delivery of all imported items in US$ within 10 weeks from the latest due date of submission of security deposits as per clause 18 (ii) & (iii) excluding the period of opening of LC by ERNET India. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all of the following sanctions-forfeiture of its i) Earnest Money Deposit, performance security as per clause 18 ,ii) imposition of liquidated damage as per clause 20 below or/and	**Query-1** The successful bidder(s) have to complete the delivery of all imported items in US$ within 12 weeks from the latest due date of submission of security deposits	No Change

		iii) cancellation of the purchase order for default.		
13.	Clause No. 19, DELIVERY PERIOD Pt. (iii)	The successful bidder(s) have to complete the delivery (installation, commissioning, testing & acceptance of the ordered items (including active & passive equipment) as per the scope of work within 24 weeks from the date of respective purchase orders. For delivery of imported items clause 19(i) will be applicable	**Query-1** The successful bidder(s) have to complete the delivery (installation, commissioning, testing & acceptance of the ordered items (including active & passive equipment) as per the scope of work within 36 weeks from the date of respective purchase orders.	No Change
14.	Clause No. 20, LIQUIDATED DAMAGES(LD)	In the event of the Bidder's failure to deliver / install & commission/ acceptance of the solution by the date/dates specified in this tender document or any extended period, ERNET India may at its discretion withhold any payment, as liquidated damages and not by way of penalty at the rate of 2% of the value of purchase order per week or a part of a week subject to a maximum of 10%. The amount towards Liquidated Damage would be recovered from any due payment / amount of Bank Guarantee as required vide clause 18 above. The LD will not be imposed in case the delay is not on part of the bidder.	**Query-1** In the event of the Bidder's failure to deliver / install & commission / acceptance of the solution by the date/dates specified in the tender document or any extended period, ERNET India may at its discretion with hold any payment, as liquidated damages and not by way of penalty at the rate of 0.2% of the value of purchase order per day or a part of a week subject to a maximum of 10%. Request you to reduce the LD and mention the Liquidated changes in terms of days i.e. 0.2% per day so that minimum capping of 0.2% Liquidated damages are not charged for delay less than a week. **Query-2** We request ERNET to amend this to "0.5% of the value of delayed item per week subject to maximum of 5%.	No Change

			Query-3 In the event of the Bidder's failure to deliver / install & commission/ acceptance of the solution by the date/dates specified in this tender document or any extended period, ERNET India may at its discretion withhold any payment, as liquidated damages and not by way of penalty at the rate of 2% of the value of purchase order per week or a part of a week subject to a maximum of 10% of delayed part of work.	
15.	Clause No. 26, EVALUATION OF TENDER Pt. (xii),C	After the L1 bidder is decided on the Gross Total Value (GTV), Annexure-IIIB submitted by L1 Bidder will be opened for deciding the lowest individual unit item rates for all the items of Annexure-I of this tender.	**Query-1** Recommended to consider L1, L2 & L3 bidder as per GTV instead of lowest individual unit item	The clause is Self-Explanatory
16.	Clause No. 27, SCOPE OF WORK Pt. (i)	The bidder will carry out the work at Universalities / organizations as specified by ERNET across India and will be responsible for total system integration and execution of project.	**Query-1** Requested to share the list of location along with university /organization covered under scope of work.	This RFP is meant to enter into a rate contract with successful bidder(s) and accordingly the order(s) will be placed as & when ERNET receives order(s) from its clients.
17.	Annexure-I Bill of Material, A. Active Equipment & Components, Switch Type 1, E	24 x 24 x 1G SFP line card	**Query-1** 24x1G SFP line card it seems typo error as two times 24 is repeated in this clause. Request to modify it with only 24x1G SFP line card **Query-2** 24x1G SFP line card it seems typo error as two times 24 is repeated in this clause. Request to modify it with only 24x1G SFP line card **Query-3** 24x1G SFP line card it seems typo error as	**The clause may be read as:** "24 x 1G SFP line card".

			two times 24 is repeated in this clause. Request to modify it with only 24x1G SFP line card.	
18.	Annexure-I, Bill of Material , A. Active Equipment & Components, Wireless Access Points, Point no. 10	Wireless Access Points supporting 802.11a/b/g/n/ac and with antenna – Outdoor	**Query-1** 1. Any outdoor UTP cables are required for outdoor access point connectivity or same asked indoor UTP cable will be use for the connectivity. 2. Any additional outdoor box are required for passive connectivity on poll.	RFP is self-explanatory
19.	Switch Type 1, 2 & Access switch (PoE& non PoE)	Request for Addition	**Query-1** All the proposed should be from the same OEM proposed for switches. it's requested to add this new clause to ensure the OEM's propose their transceiver modules along with switches to avoid any inter – operability issues. **Query-2** All the proposed should be from the same OEM proposed for switches. it's requested to add this new clause to ensure the OEM's propose their transceiver modules along with switches to avoid any inter – operability issues. **Query-3** All the proposed SFP/SFP+ Transceiver Modules should be from the same OEM proposed for switches. it's requested to add this new clause to ensure the OEM's propose their transceiver modules along with switches to avoid any inter – operability issues.	**New S. No. is added at the bottom of the specs table for all the three type of Switches:** "All the proposed SFP/SFP+ Transceiver Modules should be from the same OEM proposed for switches".
20.	Annexure-I, Bill of Material, B. Passive	Excavation & resurfacing of soil upto 1 meter depth, Hard Soil/concrete, Soft Soil	**Query-1** Any fiber route markers are required for identification of digging/fiber route?	The fibre route markers are required.

	Components, Point no. 9(iii)			
21.	Annexure-I, Bill of Material, B. Passive Components, Point no. 9(v)	Supply & Installation of HDPE Pipe – ISI/TEC Approved 40/33mm HDPE Duct Pre lubricated 120mm dia DWC pipe across the road by trench less method	**Query-1** This item is included with trenchless digging or trenchless digging will be part of normal above digging?	RFP is self-explanatory
22.	Annexure-I, Bill of Material, B. Passive Components, Point no. 9(viii)	Performance testing of laid Fiber optic cable (per core) for continuity, length, & optical power loss as per EIA/TIA 568 & EIA-TIA - 455-60 or latest and documentation of the results.	**Query-1** Quantity should be 390.	No Change
23.	Annexure-I, Bill of Material, B. Passive Components, Point no. 10, (ii)	Cat6 I/O Datagate Jack shuttered	**Query-1** Datagate jack shuttered word is propritory of Single OEM. RFP has to transparent for maximum participation of mutlple OEM and Vendor. Request to amend the same. Ask Cat 6 IO Jack.	**The clause may be read as:** "Cat6 I/O Jack.".
24.	Annexure-I, Bill of Material, B. Passive Components, Point no. 10, (vi)	Face Plate	**Query-1** Only face plates are required or along with gang box.	**Clause may be read as:** "Face plates are required along with gang box".
25.	Annexure-I, Bill of Material, B. Passive Components, Point no. 11, (ii)	Fibre LIUs, 19" rack mount 12 port LIU Unloaded CRS 24 port LIUs Unloaded CRS	**Query-1** LIU has to be mount into Rack hence it better if it is light weight. Request to amend with LIU material CRS / Power coated Alluminium alloy.	No Change
26.	Annexure-II Technical Specifications,6. WirelessAccess Points(WAP),	Must support Power over Ethernet, local power and power injectors. Should be provided with power adapter.	**Query-1** Since PoE and local power are given as either option of the power source, proving a power adaptor as a mandate is not relevant. Request to kindly remove or relax this clause.	The new line item has been added at annexure-I (Bill of Material) A. Active Equipment and components, Access Switch (non-POE) as Serial no. 4(D).

	Point No.21			"Power Injector for non-PoE switch – Quantity is 106".
27.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.1	Should be a modular chassis based switch having minimum 6 interface payload slots with extra slots for redundant CPU/Switch fabric and redundant power supply	**Query-1** Should be a modular chassis based switch in cluster having minimum 4 interface payload slots with redundant. Redundant power supply & Fan Tray. Request you ask for 2 separate core switches for ideal network architecture design and resillency . All the leading brands are having to RU Compact switches in their portfolio, which can give you multi-terabyte switching fabric and forwarding rates, these compact core switches can house 96 port of 10 Gig / 24+ ports of 40 Gig /96 ports of 1 G Copper and fiber. These next generation switches occupies less rack space , less power and cooling and and also less AMC cost. **Query-2** Should be a modular chassis switch having minimum 8 interface payload slots with extra slots for redundant CPU/ switch fabric and redundant power supply . Request to increase the interfaces slot from 6 to 8 considering future scalability to have higher port densities. **Query-3** Should be a modular chassis switch having minimum 8 interface payload slots with extra slots for redundant CPU/ switch fabric and redundant power supply . Request to increase the interfaces slot from 6 to 8 considering future scalability to have higher port densities.	No Change

			Query-4 Should be a modular chassis switch having minimum 8 interface payload slots with extra slots for redundant CPU/ switch fabric and redundant power supply . Request to increase the interfaces slot from 6 to 8 considering future scalability to have higher port densities	
			Query-5 Should be a modular chassis switch having minimum 8 interface payload slots with extra slots for redundant CPU/ switch fabric and redundant power supply . Request to increase the interfaces slot from 6 to 8 considering future scalability to have higher port densities.	
28.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S.No.-2	Should have centralized/distributed switching architecture, each module should be provisioned with adequate hardware/software to support the same.	**Query-1** Should have distributed switching architecture, each module should be provisioned with adequate hardware/software to support the same. The centralized architecture is an old technology when 100/1Gig interfaces were used, Today the technology provided by all OEM's have distributed architecture to reduce latency, high speed interfaces. Request to mention distributed and not centralized as an option. **Query-2** Should have distributed switching architecture, each module should be provisioned with adequate hardware /software to support the same. The centralized architecture is an old technology when 100/1Gig interfaces were used , today the	No Change

			technology provided by all OEM is have distributed architecture to reduce latency , high speed interfaces . Requested to mention distributed and not centralized as an option.	
29.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-3	Dual Redundant Switch Fabric/CPU should support minimum 2 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure.	**Query-1** Dual Redundant Switch Fabric/CPU should support minimum 5 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure. The switch mentions certain port requirement and to meet the given port requirements, the performance of the switch must be 5Tbps. this is also inline with the previous switch requirements floated by ERNET. **Query-2** Dual Redundant Switch Fabric/CPU should support minimum 5 Tbps switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure. The switch mentions certain port requirement and to meet the given port requirements, the performance of the switch must be 5Tbps. this is also inline with the previous switch requirements floated by ERNET. **Query-3** Requested you to kindly modify this clause as "Dual Redundant Switch Fabric/CPU should support minimum 4.8 Tbps Switch fabric capacity per switch. There should not be any performance degradation in case of any switching/routing engine failure "since as per	No Change May please refer corrected clause at S.No. 31 of this document.

			the clause no.11 the total non-blocking switching fabric should be 2 * 144 x 10G + 2 x 24 x 40G= 48000Gbps i.e.4.8 Tbps. Request you to kindly change.	
30.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-7	Minimum 1.5 Bpps forwarding rate should be supported.	**Query-1** Minimum 1.5 Bpps forwarding rate should be supported for both IPv4 and IPv6. In future when IPV6 is enabled the performance should not be degraded. **Query-2** Request you to kindly modify this clause as "Minimum 3.5 Bpps forwarding rate should be supported. " If the switching fabric is 4800 Gbps than forwarding rate will be (4800/2)*x1.488=3.5 Bpps. Request you to kindly change this clause. **Query-3** Minimum 1.5Bpps forwarding rate should be supported for both IPv4 and IPv6. In future when IPv6 is enabled the performance should not be degraded.	**The clause may be read as:** "Minimum 1.5 Bpps forwarded rate should be supported for both IPv4 & IPv6".
31.	Annexure-II Technical Specifications, A. Active Equipment & Components, Switch Type-1 S. No.-11	Chassis should support upto 144 Nos. of 1/10-Gig non-blocking ports, , support of 24 nos. of 40 GbE ports	**Query-1** **Typo error**	**The clause may be read as:** "Chassis should support upto 144 Nos. of 1/10-Gig non-blocking ports OR support of 24 nos. of 40 GbE ports".

| 32. | Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-17 | Should have hardware enabled advance IP routing protocols OSPF, OSPFv3, BGPv4, PIMSSM etc. | **Query-1**
Should have advance IP routing protocol OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one.

Query-2
Should have advance IP routing protocol OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one.

Query-3
Should have advance IP routing protocol OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one. | **The clause may be read as:** "Should have advance IP routing protocol OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one". |
| 33. | Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-20 | Switch should support Multicast QoS, Multicast ACL, Multicast Netflow/ jFLow/ SFLow, | **Query-1**
Please add the equivalent protocol like IPFIX, which can give you same functionality. Equivalent Protocol like IPPIX to achieve same functionality.

Query-2

Switch should support Multicast QoS, Multicast ACL, Multicast Netflow/jFLow/ SFLow. Switch support minimum 256k Netflow/jFLow/ SFLow entries. Any modern | **The clause may be read as:** "Switch should support Multicast QoS, Multicast ACL, Multicast Netflow/ jFLow/ SFLow/IPFIX. Switch should support minimum 256K Netflow/ jFLow/ SFLow/ IPFIX entries". |

			day campus consists of multiple hundred thousand of flows and to ensure that there is no malicious traffic flowing through the campus LAN, it is important that the administration has sgrangular visibility into these flows. Netflow/jFLow/ SFLow provide the capability to do the same. At the Same time, it is important to note that the relevant scalability of flow should also be a part of the switch specifications. Therefore, request you to kindly change the clause as requested. **Query-3** Switch should support Multicast QoS, Multicast ACL, Multicast Netflow/jFLow/ SFLow, .Switch support minimum 256k Netflow/jFLow/ SFLow entries. Any modern day campus consists of multiple hundred thousand of flows and to ensure that there is no malicious traffic flowing through the campus LAN, it is important to that the administration has sgrangular visibility into these flows. Netflow/jFLow/ SFLow provide the capability to do the same. At the Same time, it is important to note that the relevant scalability of flow should also be a part of the switch specifications. Therefore, request you to kindly change the clause as requested.	
34.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1	Should support minimum 8 k multicast entries.	**Query-1** Should support minimum 32 k IPv4 and 16 K IPv6 multicast entries. the switch will be a part of the core campus network. In order to provide multiple student service it is a vital that the switch be able to scale in term of multicast route in the interest of better	**No Change.**

	S. No.-21		solution for the students, requested you to kindly increase the number of multicast routes. **Query-2** Should support minimum 32 k IPv4 and 16 K IPv6 multicast entries.the switch will be a part of the core campus network. In order to provide multiple student service it is a vital that the switch be able to scale in term of multicast route .in the interest of better solution for the students, requested you to kindly increase the number of multicast routes. **Query-3** Should support minimum 50% multicast entries. As the traffic for online learning / elearning has grow 8k multicasting route may be less. We request to make to atleast to be increase to 50k. **Query-4** Should support minimum 50 k multicast entries. As the traffic for online learning / elearning has grow 8k multicasting route may be less. We request to make to atleast to be increase to 50k.	
35.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-22	Should support minimum 128k IPv4 and 24K IPv6 routes	**Query-1** Should support minimum 256k IPv4 and 128 IPv6 routes. The maximum number of route has been considered on a conservative scale. In order to ensure that the solution is scalable, request you to kindly keep the number of minimum routes in the line with the earlier RFPs from ERNET, thereby ensuring the best solution	No Change

			Query-2 Should support minimum 256k IPv4 and 128 IPv6 routes. The maximum number of route has been considered on a conservative scale. In order to ensure that the solution is scalable, request you to kindly keep the number of minimum routes in the line with the earlier RFPs from ERNET, thereby ensuring the best solution. **Query-3** Should support minimum 128k IPv4 and 128k IPv6 routes. There will be multiple department and various application and all the routing will happen on core hence it is recommended to have the scalabilities .128k IPv4 and 128k IPv6 routes are less for University campus core. We request to make to atleast 128k IPv4 and IPv6 routes. **Query-4** Should support minimum 128k IPv4 and 64k IPv6 routes. There will be multiple department and various application and all the routing will happen on core hence it is recommended to have the scalabilities .128k IPv4 and 24k IPv6 routes are less for University campus core. We request to make to atleast 128k IPv4 and 64k IPv6 routes.	
36.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-31	Switch should support minimum 8k Security ACLs	**Query-1** Switch should support minimum 128k QoS ACLs and Security ACLs. The Access control list/entries are concerned with the QoS and security of the entire solution keeping in mind the amount of traffic and the multiple classes of the same, it is imperative to consider the ability to QoS and security. The increased	No Change

			number of QoS and Security ACLs will provide ERNET and the college administration the tool ensure the best per person bandwidth while being secure at the same time.	
			Query-2	
			Switch should support minimum 128k QoS ACLs and Security ACLs. The Access control list/entries are concerned with the QoS and security of the entire solution keeping in mind the amount of traffic and the multiple classes of the same, it is imperative to consider the ability to QoS and security. The increased number of QoS and Security ACLs will provide ERNET and the college administration the tool ensure the best per person bandwidth while being secure at the same time.	
			Query-3	
			Request you to kindly modify this clause as 'Switch should support minimum 3K security ACLs" The technology differs from OEM to OEM. Since this is core switch and 3K ACL is sufficient. It will unnecessarily increase the overall cost of total solution. Request you to kindly modify so that max. OEM can participate.	
37.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-36	Switch should be IPv6 Certified/ Ready Logo/TEC certified	**Query-1** Kindly modify clause as "The switch should be IPV6 certified / Ready logo / IPV6 ready feom day 1". Please change the clause for major OEM to participate. **Query-2** Kindly modified clause as "the switch be IPv6	No Change

			Certified/ Ready Logo/IPv6 ready from Day 1". Please change the clause for major OEM to participate.	
			Query-3 Kindly modify clause as "The switch should be IPV6 certified / Ready logo / IPV6 ready feom day 1". Please change the clause for major OEM to participate.	
38.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-1 S. No.-38	Switch should be minimum EAL3 of common criteria Certified or NDPP or equivalent	**Query-1** Request you to delete the same, Avaya Switches is been deployed at various government & defence organizations across the world. Our switches is been tested by leading Defence lab from US government to ascertain our switches are fully secure. Secondly NDPP is the latest certification carried out by common criteria labs now days. **Query-2** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security. **Query-3** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security.	No Change

			Query-4 Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security	
39.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-2	Switch should have 48 x 1G SFP Port and at least 4 x 10G SFP port. one console port and one out of band management Ethernet port.	**Query-1** Switch should have 48x10G SFP port and at least 4x40G SFP port. One console port and one out of band management Ethernet port. Now days core to distribution to access switch's uplink port are on 10G connectivity, therefore its advisable to have distribution switch with 10G SFP connectivity . Kindly amend this to 48 port 10G SFP+ with a provision of 40 Gig back haul to the core. **Query-2** Switch should have 48 x 1G/10G SFP Port and at least 4 x 40G QSFP port. One console port and one out of band management ethernet port. The switch type being asked for the fiber 1G. since the switches available with all OEMs in the industry are 1/10G capable without any price differential, request you to kindly ensure that the port asked for are 1/10G capable. The uplink ports on the other hand, must be 40 g in any modern day campus network. With the advent of high speed wireless in campus ,the current uplinks will definitely prove to be bottleneck in the network very very soon also Since the core	**Explanation of the clause:** "The desired port density may be achieved by single or more than one switch in stacking provided there is no performance or feature degradation".

				switch ask for 24x40G port support , it is imperative that the distribution switches also have 40 g uplink port in the order to maintain a bottleneck free campus network for student.	
				Query-3 Switch should have 48 x 1G/10G SFP Port and at least 4 x 40G QSFP port. One console port and one out of band management ethernet port. The switch type being asked for the fiber 1G. since the switches available with all OEMs in the industry are 1/10G capable without any price differential, request you to kindly ensure that the port asked for are 1/10G capable. The uplink ports on the other hand, must be 40 g in any modern day campus network. With the advent of high speed wireless in campus ,the current uplinks will definitely prove to be bottleneck in the network very very soon also Since the core switch ask for 24x40G port support , it is imperative that the distribution switches also have 40 g uplink port in the order to maintain a bottleneck free campus network for student.	
				Query-4 Request you to kindly change this clause as "Switch should have 24 x 1G SFP port and at least 4 x 10G SFP port. One console port and one out of band management Ethernet port" The architecture and technology differs from OEM to OEMs. This combination of interface is OEM specific. Request you to kindly modify so that max. OEM can participate.	

			Query-5 Switch should have 40x1G SFP port and at least 4x10G SFP Port . one console port and one out of band management Ethernet port. 40 Port 1G Fiber switch are not available with most of the OEM. We request to make it 40 Port for major OEM to participate. **Query-6** Switch should have 40 x 1G SFP Port and at least 4 x 10G SFP port. one console port and one out of band management ethernet port . 40 port 1G Fiber switch are not available with most of the OEM. We request to make it 40 port for major OEM to participate. **Query-7** Switch should have 40x1G SFP port and at least 4x10G SFP Port . one console port and one out of band management Ethernet port. 48 Port 1G Fiber switch are not available with most of the OEM. We request to make it 40 Port for major OEM to participate.	
40.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-5	Switch should have 40 Gbps Stacking bandwidth (full duplex)	**Query-1** Switch should have 40 Gbps Stacking /clustering bandwidth (Full duplex). On the distribution layer, stacking is not used in distribution or core layer. **Query-2** Kindly remove the clause. Stacking is a feature for access layer Switches and not available in 48 port fiber switches .we are the OEM with the largest market share in the world for switches and this is one of the	No Change Kindly Refer explanation provided above at S. No. 39.

			clauses that makes us non complied and unable to participate in this esteemed RFP. **Query-3** Kindly remove the clause. Stacking is a feature for access layer Switches and not available in 48 port fiber switches. We are the OEM with the largest market share in the world for switches and this is one of the clauses that makes us non complied and unable to participate in this esteemed RFP.	
41.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-7	Switch should offer minimum 176 Gbps switching capacity	**Query-1** Switch should offer minimum 1.44Tbps switching capacity. The performance being asked for this switch is highly conservative and will not be sufficient to cover the number of port work at line rate speed, request you to kindly increase the performance figures. **Query-2** Switch should offer minimum 1.44Tbps switching capacity. The performance being asked for this switch is highly conservative and will not be sufficient to cover the number of port work at line rate speed, request you to kindly increase the performance figures.	No Change
42.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-9	Switch should support 130 Mpps of forwarding rate.	**Query-1** Switch should support 1000 Mpps of forwarding rate. The performance being asked for this switch is highly conservative and will not be sufficient to cover the number of ports being asked for to ensure that all ports work at line rate speed request you to kindly increase the performance figures.	No Change

			Query-2 Switch should support 1000 Mpps of forwarding rate. The performance being asked for this switch is highly conservative and will not be sufficient to cover the number of ports being asked for to ensure that all ports work at line rate speed request you to kindly increase the performance figures.	
43.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-10	Should support 2k multicast routes in hardware	**Query-1** Should support 8k multicast routes in hardware. The switch will be a part of the core campus network. In order to provide multiple student service, it is a vital that the switch be able to scale in term of multicast route .in the interest of better solution for the students, requested you to kindly increase the number of multicast routes. **Query-2** Should support 8k multicast routes in hardware. The switch will be a part of the cpre campus network. In order to provide multiple student service, it is a vital that the switch be able to scale in term of multicast route .in the interest of better solution for the students, requested you to kindly increase the number of multicast routes. **Query-3** Should support minimum 8k multicast entries. The multicast traffic will start from L3 switch and 2k is may not suffice keeping the amount of multicast traffic due to the growth of online /e-learning 2k route at the switch may not suffice. Please increase the multicast route to	**No Change**

			8k.	
44.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-16	Should support secure VTP or equivalent to reduce administrative burden of configuring VLANs on multiple switches in turn eliminating the configuration errors & troubleshooting in secure manner.	**Query-1** Should support secure VTP or equivalent to reduce administrative burden of configuring VLANs on multiple switches in turn eliminating the configuration errors & troubleshooting. Secure VTP is Cisco proprietary protocol the equivalent to this as per industry standard is GVRP hence we request to modify the clauses as per request **Query-2** Should support secure VTP or equivalent to reduce administrative burden of configuring VLANs on multiple switches in turn eliminating the configuration errors & troubleshooting. Secure VTP is Cisco proprietary protocol the equivalent to this as per industry standard is GVRP hence we request to modify the clauses as per request **Query-3** Should support secure VTP or equivalent to reduce administrative burden of configuring VLANs on multiple switches in turn eliminating the configuration errors & troubleshooting. Secure VTP is Cisco proprietary protocol the equivalent to this as per industry standard is GVRP hence we request to modify the clauses as per request	**The clause may be read as:** "Should support VTP or equivalent to reduce administrative burden of configuring VLANs on multiple switches in turn eliminating the configuration errors & troubleshooting in secure manner".
45.	Annexure-II Technical	Should have IEEE compliance for 802.1Q VLAN, 801.2p, 802.1d STP,	**Query-1** Should have IEEE compliance for 802.1Q	**This clause may be read as:** "Should have IEEE compliance

	Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-19	802.3ad,802.1w RSTP,802.1Smstp, RPVST+,802.3AD LACP,IEEE 802.1ab,Link Layer Discovery Protocol.	VLAN, 801.2p,802.1d STP, 802..3ad, 802.1w RSTP, 802.1 smstp, 802.3AD LACP, IEEE 802.1ab, Link Layer Discovery Protocol. Kindly Remove , RPVST+, its some vendor proprietary protocol , Please write equivalent protocol like MSTP. **Query-2** Request you to kindly change This clause as " Should have IEEE compliance for 802.1Q VLAN, 802.1p,802.1d STP, 802.3ad, 802.1w RSTP, 802.1s mstp, RPVST+, 802.3AD LACP, IEEE 802.1ab, Link layer discovery Protocol." Link typo mistake.	for 802.1Q VLAN, 802.1p,802.1d STP, 802.3ad, 802.1w RSTP, 802.1s mstp, RPVST+/ MSTP, 802.3AD LACP, IEEE 802.1ab, Link layer discovery Protocol."
46.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-24	Should have hardware enable advance ip routing protocols OSPF,OSPFV3, BGPV4, PIM-DM,PIM-SSM etc.	**Query-1** Should have advance IP routing protocol s OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one. **Query-2** Should have advance IP routing protocol s OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one. **Query-3** Should have advance IP routing protocol s OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one. Request to clarify the hardware enabled clause as it is assumed the proposed switch should have all the asked advance layer3 features from day one.	**The clause may be read as:** "Should have advance IP routing protocols OSPF, OSPFv3 BGPv4, PIM-SSM etc from day one".

47.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-36	Should provide local and Remote Port Mirroring	**Query-1** Should provide local port mirroring. kindly removed , As RSPAN OR ERSPAN, causes of unnecessary CPU and bandwidth utilization	No Change
48.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-44	Switch should be IPv6 Certified/ Ready Logo/TEC certified	**Query-1** Kindly modify clause as "The switch should be IPv6 Certified /Ready Logo/IPv6 ready from Day 1". Please change the clause for major OEM to participate. **Query-2** Kindly modify clause as "The switch should be IPV6 certified / Ready logo / IPV6 ready feom day 1".Please change the clause for major OEM to participate.	No Change
49.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2 S. No.-45	Switch should be minimum EAL3 of common criteria Certified or NDPP or equivalent.	**Query-1** Request you to delete the same , Avaya Switches is been deployed at various government & defence organizations across the world. Our switches is been tested by leading Defence lab from US government to ascertain our switches are fully secure. Secondly NDcPP is the lastest certification carried out by common criterian labs now days. **Query-2** Switch should be minimum EAL3, of	No Change

			common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security. **Query-3** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security. **Query-4** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security.	
50.	Annexure-II Technical Specifications, A .Active Equipment & Components, Switch Type-2	Additional Point	**Query-1** Should have filters/Access-list on all ports with support for min 4K ACLs. The switch specifications must ensure that there is a minimum threshold defined for the number of access list supported .Since ACLs are the most basic form and first layer of security implemented at any campus network, it is vital that the switch support these in good numbers .Also .it is in line with the earlier tenders floated by ERNET and also with the switch type 1 specification mentioned in this tender.	No Change

			Query-2 Should have filters/Access-list on all ports with support for min 4K ACLs. The switch specifications must ensure that there is a minimum threshold defined for the number of access list support .Since ACLs are the most basic form and first layer of security implemented at any campus network, it is vital that the switch support these in good numbers .Also .it is in line with the earlier tenders floated by ERNET and also with the switch type 1 specification mentioned in this tender.	
51.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-3	Switch should have 40 Gbps Stacking bandwidth (full duplex) and stackable upto minimum 8 units in a single stack.	**Query-1** Switch should support Stacking bandwidth of 80 Gbps with dedicated stacking port. It is important that switch ask for dedicated stacking port. Since there are OEMs who have product that have no demarcation between uplink and stacking ports, it is important to clarify that the uplinks ports can only be used for uplinks and dedicated stacking ports will be required for stacking, **Query-2** Switch should support Stacking bandwidth of 80 Gbps with dedicated stacking port. It is important that switch ask for dedicated stacking port. Since there are OEMs who have product that have no demarcation between uplink and stacking ports , it is important to clarify that the uplinks ports can only be used for uplinks and dedicated stacking ports will be required for stacking	**The Clause may be read as:** "Switch should have 80 Gbps stacking bandwidth on separate ports (in addition to uplinks) and stackable upto minimum 8 units in a single stack".

			Query-3	
			Switch should have 80 Gbps stacking bandwidth Stacking bandwidth (full duplex) in addition to uplink ports and stackable upto minimum 8 units in a single stack. The asked 40Gbps stacks desired user port density 24x1G = 24Gbps x 2 = 48 Gbps. There would be multiple units in a single stack to cater lager user density (minimum 8 units in a single stack) at hostels/buildings hence to support this higher stacking bandwidth is very much desired to avoid performance issues. We recommend to have atleast minimum 80Gbps of stocking bandwidth (in addition to asked uplink ports).	
			Query-4	
			Switch should have 80 Gbps stacking bandwidth Stacking bandwidth (full duplex) in addition to uplink ports and stackable upto minimum 8 units in a single stack. The asked 40Gbps stacks desired user port density 24x1G = 24Gbps x 2 = 48 Gbps. There would be multiple units in a single stack to cater lager user density (minimum 8 units in a single stack) at hostels/buildings hence to support this higher stacking bandwidth is very much desired to avoid performance issues. We recommend to have atleast minimum 80Gbps of stocking bandwidth (in addition to asked uplink ports).	
			Query-5	
			Switch should have 80 Gbps stacking	

			bandwidth Stacking bandwidth (full duplex) in addition to uplink ports and stackable upto minimum 8 units in a single stack. The asked 40Gbps stacks desired user port density 24x1G = 24Gbps x 2 = 48 Gbps. There would be multiple units in a single stack to cater lager user density (minimum 8 units in a single stack) at hostels/buildings hence to support this higher stacking bandwidth is very much desired to avoid performance issues. We recommend to have atleast minimum 80Gbps of stocking bandwidth (in addition to asked uplink ports). **Query-6** Request you to kindly modify this clause as "Switch should have 40 Gbps Stacking bandwidth (full duplex) and stackable upto minimum 4 unites in a single stack "Technology and architecture differs from OEM to OEMs. 4 units per stack is sufficient. 4 units stack means 96 nos. of interfaces in per stack. It will also inflate the cost of overall solution. Request you to kindly modify so that max. OEM can participate. **Query-7** Switch should have 40 Gbps stacking bandwidth and stackable upto minimum 8 units in a single stack. Stacking is only for switch to switch communication and not for uplink traffic. Stacking bandwidth is unidirectional hence we request it to make it 40 Gbps unidirectional. **Query-8** Switch should have 40 GbpsStacking	

			bandwidth and stackable upto minimum 8 units in a single stack. Stacking is only foe switch to switch communication and not for Uplink traffic. Stacking bandwidth is unidirectional hence we request it to make it 40Gbps unidirectional.	
52.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-7	Switch should have non-blocking switching fabric of minimum 128 Gbps or more and should have forwarding rate of minimum 95 Mpps.	**Query-1** Switch should have non blocking switching fabric of minimum 128 Gbps or more and should have forwarding rate of minimum 66Mpps. Kindly Reduce from 95 Mpps to 66 Mpps. Since the connectivity asked in specs for access of 1G and also considering general uses any thing above 60 Mpps is not use. **Query-2** Request you to kindly change this clause as "Switch should have non-blocking switching fabric of minimum 128 Gbps or more and should have forwarding rate of minimum 95 Mpps." As per the non-blocking architecture the switching capacity will be (2 x24 x 1G)+ (2 x 2 x 10G) = 88 Gbps and throughput will be 88/2 x 1.488=65.4 mpps. Request you to kindly change so that max. OEM can participate.	**The clause may be read as:** "Switch should have non-blocking switching fabric of minimum 88 Gbps or more and should have forwarding rate of minimum 65 Mpps".
53.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S.	Switch should support power supply redundancy	**Query-1** Request you to kindly remove this clause. Since redundant power supply is not required in layer-2 end user/access level Switches. It will also unnecessary increase the cost of overall solution. Request you to kindly change so that max. OEM can participate this opportunity. **Query-2** Switch should support internal power supply	No Change

			redundancy. Kindly modify clause as "Switch should support internal power supply redundancy". Most of the device failure happen due to power supply failure so it is recommended to have the internal power supply redundancy. **Query-3** Switch should support internal power supply redundancy. Kindly modify clause as "Switch should support internal power supply redundancy". Most of the device failure happens due to power supply failure so it is recommended to have the internal power supply redundancy. **Query-4** Switch should support internal power supply redundancy. Kindly modify clause as "Switch should support internal power supply redundancy". Most of the device failure happens due to power supply failure so it is recommended to have the internal power supply redundancy	
	No.-8			
54.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-13	Switch should support IGMP v1/v2/v3 as well as IGMP v1/v2/v3 snooping	**Query-1** Switch should support IGMP v1/v2/v3 as well as IGMP v1/v2/v3 snooping and minimum 4k IGMP Groups. As multicast routes has been asked in the Core and Distribution Switch considering criticality of this feature multicast session get terminated at Access Layer that's where no limit of IGMP Groups specified. It is strongly recommended to add minimum 4k IGMP Group to support video streaming readiness etc. Today multicast is prime application and even it may be centrally controlled for all colleges/ university in future	No Change

			for which it's must to have higher IGMP Groups. Hence we request you to incorporate the same to avoid any solution bottleneck.	
			Query-2 Switch should support IGMP v1/v2/v3 as well as IGMP v1/v2/v3 snooping and minimum 4k IGMP Groups. As multicast routes has been asked in the Core and Distribution Switch considering criticality of this feature multicast session get terminated at Access Layer that's where no limit of IGMP Groups specified. It is strongly recommended to add minimum 4k IGMP Group to support video streaming readiness etc. Today multicast is prime application and even it may be centrally controlled for all colleges/ university in future for which it's must to have higher IGMP Groups. Hence we request you to incorporate the same to avoid any solution bottleneck.	
			Query-3 Switch should support IGMP v1/v2/v3 as well as IGMP v1/v2/v3 snooping and minimum 4k IGMP Groups. As multicast routes has been asked in the Core and Distribution Switch considering criticality of this feature multicast session get terminated at Access Layer that's where no limit of IGMP Groups specified. It is strongly recommended to add minimum 4k IGMP Group to support video streaming readiness etc. Today multicast is prime application and even it may be centrally controlled for all colleges/ university in future for which it's must to have higher IGMP	

			Groups. Hence we request you to incorporate the same to avoid any solution bottleneck.	
55.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-16	Should support inter-vlan routing and OSPF.	**Query-1** Should support inter-vlan routing, OSPF and OSPFv3. It's important to have IPv6 readiness too for Layer 3 convergence hence request to consider OSPFv3 as well. **Query-2** Should support inter-vlan routing, OSPF and OSPFv3. It's important to have IPv6 readiness too for Layer 3 convergence hence request to consider OSPFv3 as well. **Query-3** Should support inter-vlan routing, OSPF and OSPFv3. It's important to have IPv6 readiness too for Layer 3 convergence hence request to consider OSPFv3 as well. **Query-4** Request you kindly change this clause as " Should support inter-vlan routing" Technology differs from OEM to OEMs. Since asked switch is Layer-2 Access Switch whereas OSPF is Layer-3 protocol. Request you to kindly remove so that max. OEM can participate.	**The clause may be read as:** "Should support inter-vlan routing, OSPF and OSPFv3".

56.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-37	Switch should be IPv6 Certified/ Ready Logo/TEC certified	**Query-1** Kindly modify clause as "The switch should be IPv6 Certified /Ready Logo/IPv6 ready from Day 1". Please change the clause for major OEM to participate. **Query-2** Kindly modify clause as "The switch should be IPV6 certified / Ready logo / IPV6 ready feom day 1".Please change the clause for major OEM to participate. **Query-3** Kindly modify clause as "The switch should be IPV6 certified / Ready logo / IPV6 ready feom day 1".Please change the clause for major OEM to participate	No Change
57.	Annexure-II Technical Specifications, A .Active Equipment & Components, Access Switch (PoE & non PoE), Technical Specification S. No.-38	Switch should be minimum EAL3 of common criteria Certified or NDPP or equivalent	**Query-1** Request you to delete the same, Avaya Switches is been deployed at various government & defence organizations across the world. Our switches is been tested by leading Defence lab from US government to ascertain our switches are fully secure. Secondly NDcPP is the lastest certification carried out by common criterian labs now days. **Query-2** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security. **Query-3** Switch should be minimum EAL3, of	No Change

			common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security. **Query-4** Switch should be minimum EAL3, of common criteria certified or NDPP. Request as only EAL3 or NDPP are defined by common criteria. By having open clauses with equivalent option OEM's would propose different type of certification against this resulting compromise on security.	
58.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-1	The NMS should support management of Network devices like switches, wi-fi controllers and other SNMP based devices.	**Query-1** Please change it to "The NMS should support management of network devices like routers switches and other SNMP based devices ". Since different kind of equipments are asked , we request to change the NMS to EMS for their respective products for the management purpose and should have north bound API's to connect with Umbrella NMS as and when required. We request to amend the clause for leading OEM to participate. **Query-2** Please change it to "The NMS should support management of Network devices like Routers, switches and other SNMP based devices. Since different kind of equipment are asked, We request to change the NMS to EMS for their respective products for the management purpose and should have north bound API's to connect with Umbrella NMS as and when required. We request to amend the clause for	No Change

			leading OEM to participate.	
59.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-11	The NMS should support multiple protocols such as https, SSL, SCP, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3).	**Query-1** The NMS should support multiple protocols such as https, SSL, SCP, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3). There are multiple protocol used in NMS for configuration management. All the devices does support SSH, Telnet, SCP, is a vendor lockout spec. We recommend removing SCP from this spec. **Query-2** The NMS should support multiple protocols such as https, SSL, SCP, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3). There are multiple protocol used in NMS for configuration management. All the devices does support SSH, Telnet, SCP, is a vendor lockout spec. We recommend removing SCP from this spec. **Query-3** The NMS should support multiple protocols such as https, SSL, SCP, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3). There are multiple protocol used in NMS for configuration management. All the devices does support SSH, Telnet, SCP, is a vendor lockout spec. We recommend removing SCP from this spec. **Query-4** Please change it to "The NMS should support multiple protocol such as https, SSH, FTP, TFTP, Telnet and other SNMP (v1,v2c and v3). Please amend for leading OEM to participate".	**The clause may be read as:** "The NMS should support multiple protocols such as https, SSL, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3)".

			Query-5 Please change it to "The NMS should support multiple protocols such as https, SSH, FTP, TFTP, Telnet and SNMP (v1, v2c and v3). Please amend for leading OEM to participate.	
60.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-16	The NMS should support a single menu for discovery status, device status, user tracking, and inventory dashboards	**Query-1** The NMS should support a single menu for discovery status, device status and inventory dashboards. User tracking is not a standard NMS/EMS feature. Please remove. **Query-2** The NMS should support a single menu for discovery status, device status and inventory dashboards. User tracking is not a standard NMS/EMS features. Please remove.	**The clause may be read as:** "The NMS should support a single menu for discovery status, device status and inventory dashboards".
61.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-20	The NMS should support centralized fault and event browser (consolidated, syslog, traps, and events and alarms)	**Query-1** The NMS should support centralized fault and event browser (consolidated, syslog, traps, and events and alarms) with minimum retention period of 6 month of more. Not all the NMS system retain the data by default for long, it is critical to mention that all logs should be retained for longer period which helps IT team accelerate troubleshooting. **Query-2** The NMS should support centralized fault and event browser (consolidated, syslog, traps, and events and alarms) with minimum retention period of 6 month of more. Not all the NMS system retain the data by default for long, it is critical to mention that all logs	**The clause may be read as:** "The NMS should support centralized fault and event browser (consolidated, syslog, traps, and events and alarms) with minimum retention period of 6 months".

| | | | should be retained for longer period which helps IT team accelerate troubleshooting.

Query-3
The NMS should support centralized fault and event browser (consolidated, syslog, traps, and events and alarms) with minimum retention period of 6 month of more. Not all the NMS system retain the data by default for long, it is critical to mention that all logs should be retained for longer period which helps IT team accelerate troubleshooting.

Query-4
The NMS should support Centralized fault and event browser centralized ,traps, and events and alarms.
Query-5
The NMS should support centralized fault and event browser (consolidated, traps, and events and alarms).Please remove syslog as it is not a standard NMS/EMS features. We recommended to have a dedicated syslog server | |
| 62. | Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. | The NMS should support configuration of location settings of switch ports to aid the provisioning and tracking of Media endpoints. | **Query-1**
Please remove as it OEM specific.
Query-2
Please remove as it OEM specific.
Query-3
Please remove as it OEM specific. | The clause stands deleted |

		No.-28		
63.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-30	The NMS should support rule-based device classification engine for Device Profiling	**Query-1** Please remove this – the idea of having a rule –based device classification for profiling is vendor specific there is no standard library for profiling **Query-2** Please remove this – the idea of having a rule –based device classification for profiling is vendor specific there is no standard library for profiling. **Query-3** Please remove this – the idea of having a rule –based device classification for profiling is vendor specific there is no standard library for profiling.	The clause stands deleted
64.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-32	The NMS should support creation of a Baseline template for configuration of devices	**Query-1** The NMS should support creation of a baseline template using varios wizards for configuration of devices. These tools are generally provided in SLA monitoring and Helpdesk suites , kindly remove them.	No Change

65.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-33	The NMS should support generation of a non-compliance configuration report against the Baseline template.	**Query-1** The NMS should support generation of a non-compliance configuration report against the baseline template. These tools are generally provided in SLA monitoring and Helpdesk suites , kindly remove them.	No Change
66.	Annexure-II Technical Specifications, A .Active Equipment & Components, 4. Network Management System (NMS), Technical Specification S. No.-40	The NMS should support Syslog report	**Query-1** Please remove as it is a primarily a SIEM feature. **Query-2** Please remove as it is a primarily a SIEM feature. **Query-3** Please remove as it is a primarily a SIEM feature.	No Change
67.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)- Type-1 Technical	WLC should be dedicated appliance with support for upto 100 Access points. Should be a standalone appliance in High Availability mode.	**Query-1** WLC should be dedicated appliance with support for up to 70 Access points. Should be a standalone appliance in High Availability mode. if we categorize ,70 Aps would be good enough for small campuses and request to change the count to 70 instead of 100. **Query-2** WLC should be dedicated appliance with support for up to 70 Access points. Should be	**The Clause may be read as:** "WLC should be dedicated appliance with support for upto 100 Access points. Should be a standalone appliance and support high availability mode as and when required".

	Specification S. No.-2		a standalone appliance in High Availability mode. if we categorize ,70 Aps would be good enough for small campuses and request to change the count to 70 instead of 100. **Query-3** Qty of each controller is mentioned in RFP, request to clarify whether mentioned qty is including HA controller also or does bidder need to quote HA Controller separately as mentioned in clause.	
68.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type1 Technical Specification S. No.-9	WLC performance should remain the same if encryption is on or off for wireless SSIDs.	**Query-1** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP. **Query-2** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP.	The clause stands deleted.
69.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type1 Technical Specification S. No.-10	WLC Should support Rogue AP detection, classification and standard WIPS signatures.	**Query-1** WLC Should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signatures word. **Query-2** WLC Should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signatures word. **Query-3** WLC Should support Rogue AP detection,	**The clause may be read as:** "WLC Should support Rogue AP detection, classification and standard WIPS".

			classification and standard WIPS. Request you to modify clause and remove signatures word.	
70.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-1, Technical Specification S. No.-16	Should provide Mesh capability for Mesh supported AP.	**Query-1** Please Remove Mesh capability for mesh supported AP or write Mesh / WDS. Mesh network are primarily use when deploying MAN (Metropolitan Area Network) there are no use of Mesh. Wireless backhauling can also be achieved through WDS.	No Change
71.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type1 Technical Specification S. No.-17	Must support client roaming across controllers separated by a layer 3 routed boundary.	**Query-1** Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacentre). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment. **Query-2** Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any	**The clause may be read as:** "Must support client roaming across controllers".

			impact on performance or objective of deployment. **Query-3** Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment.	
72.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type1 Technical Specification S. No.-20	Should provide a snapshot of air quality in terms of the performance and impact of interference on the wireless network identifying the problem areas.	**Query-1** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's **Query-2** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-3** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's.	**The clause may be read as:** "Should provide a snapshot of interference on the wireless network identifying the problem areas".
73.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type1 Technical	Should provide real-time charts showing interferers on a per-radio, per-channel basis	**Query-1** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate. **Query-2** "showing interference " in place of "showing interferers". Request you to modify the clause	No Change

			as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate. **Query-3** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate.	
74.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-2	WLC should be dedicated appliance with support for upto 250 Access points. Should be a standalone appliance in High Availability mode	**Query-1** WLC should be dedicated appliance with support for up to 500 Access points. Should be a standalone appliance in High Availability mode. if we categorize ,250 Aps would be good enough for medium size campuses and request to change the count to 500 instead of 250. **Query-2** WLC should be dedicated appliance with support for up to 500 Access points. Should be a standalone appliance in High Availability mode. if we categorize ,250 Aps would be good enough for medium size campuses and request to change the count to 500 instead of 250. **Query-3** Qty of each controller is mentioned in RFP, request to clarify whether mentioned qty is including HA controller also or does bidder need to quote HA controller separately as mentioned in clause.	**The clause may be read as:** "WLC should be dedicated appliance with support for upto 250 Access points. Should be a standalone appliance and support high availability mode as and when required".

75.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-7	Should support coverage hole detection and correction that can be adjusted on a per WLAN basis	**Query-1** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each radio irrespective of WLAN. this is correctly mentioned in WLC 1 specification. **Query-2** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each redio irrespective of WLAN . this is correctly mentioned in WLC 1 specification. **Query-3** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each redio irrespective of WLAN . this is correctly mentioned in WLC 1 specification.	**The clause may be read as:** "Should support coverage hole detection and correction that can be adjusted on a per Access point basis".

76.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-9	WLC performance should remain the same if encryption is on or off for wireless SSIDs	**Query-1** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP. **Query-2** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP	The clause stands deleted.
77.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-10	WLC Should support Rogue AP detection, classification and standard WIPS signatures.	**Query-1** WLC Should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word. **Query-2** WLC Should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word. **Query-3** WLC Should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word.	**The clause may be read as:** "WLC Should support Rogue AP detection, classification and standard WIPS".

78.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-16	Should provide Mesh capability for Mesh supported AP.	**Query-1** Please Remove Mesh capability for mesh supported AP or write Mesh / WDS. Mesh network are primarily use when deploying MAN (Metropolitan Area Network) there are no use of Mesh. Wireless backhauling can also be achieved through WDS.	No Change
79.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-2 Technical Specification S. No.-17	Must support client roaming across controllers separated by a layer 3 routed boundary.	**Query-1** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment. **Query-2** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment. **Query-3** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in	**The clause may be read as:** "Must support client roaming across controllers".

			management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment.	
80.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)- Type-2 Technical Specification S. No.-20	Should provide a snapshot of air quality in terms of the performance and impact of interference on the wireless network identifying the problem areas.	**Query-1** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-2** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-3** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's.	**The clause may be read as:** "Should provide a snapshot of interference on the wireless network".
81.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)- Type-2 Technical Specification S. No.-21	Should provide an Air Quality rating on a per- radio basis to help gauge the impact of interference on the network.	**Query-1** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-2** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's **Query-3** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's	The clause stands deleted.

82.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)- Type-2 Technical Specification S. No.-22	Should provide real-time charts showing interferers per access point ,on a per-radio, per channel basis	**Query-1** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate. **Query-2** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate. **Query-3** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analisys results shows as per radio and not interferers. Please change it so all leading OEM's can participate.	**The clause may be read as:** "Should provide real-time charts showing interferers on a per radio, per channel basis".
83.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)- Type-3 Technical Specification S. No.-2	WLC should be dedicated appliance with support for upto 500 Access points. Should be a standalone appliance in High Availability mode.	**Query-1** WLC should be dedicated appliance with support for up to 1500 Access points. Should be a standalone appliance in High Availability mode. if we categorize ,500 Aps would be good enough for large size campuses and request to change the count to 1500 instead of 500 **Query-2** WLC should be dedicated appliance with support for up to 1500 Access points. Should be a standalone appliance in High Availability mode. if we categorize ,500 Aps would be good enough for large size campuses and request to change the count to 1500 instead of	**The Clause may be read as:** "WLC should be dedicated appliance with support for upto 500 Access points. Should be a standalone appliance and support high availability mode as and when required".

			500. **Query-3** Qty of each controller is mentioned in RFP, request to clarify whether mentioned qty is including HA controller also or does bidder need to quote HA controller separately as mentioned in clause.	
84.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-7	Should support coverage hole detection and correction that can be adjusted on a per WLAN basis.	**Query-1** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each redio irrespective of WLAN . this is correctly mentioned in WLC 1 specification. **Query-2** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each redio irrespective of WLAN. this is correctly mentioned in WLC 1 specification. **Query-3** Should support coverage hole detection and correction that can be adjusted on a per Access point basis. Request you to modify the clause as per controller 1. Coverage hole detection and correction should be for each redio irrespective of WLA . this is correctly mentioned in WLC 1 specification.	**The clause may be read as:** "Should support coverage hole detection and correction that can be adjusted on a per Access point basis".

85.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-9	WLC performance should remain the same if encryption is on or off for wireless SSIDs.	**Query-1** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP. **Query-2** Please remove this. This feature is not support by Cisco. Being the largest market share holder of share holder market, this point is keeping us from competing in this esteemed RFP	The clause stands deleted.
86.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-10	WLC Should support Rogue AP detection, classification and standard WIPS signatures	**Query-1** WLC should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word **Query-2** WLC should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word. **Query-3** WLC should support Rogue AP detection, classification and standard WIPS. Request you to modify clause and remove signature word.	**The clause may be read as:** "WLC Should support Rogue AP detection, classification and standard WIPS".
87.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5	Should provide Mesh capability for Mesh supported AP.	**Query-1** Please Remove Mesh capability for mesh supported AP or write Mesh / WDS. Mesh network are primarily use when deploying MAN (Metropolitan Area Network) there are no use of Mesh. Wireless backhauling can	No Change

			also be achieved through WDS.	
	(i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-16			
88.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-17	Must support client roaming across controllers separated by a layer 3 routed boundary.	**Query-1** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment. **Query-2** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment. **Query-3** Must support client roaming across controllers. Request you to modify clause as required. Mostly Controllers are deployed in management VLAN (and in same datacenter). So roaming across the layer 3 boundary is not critical to have. This shall not have any impact on performance or objective of deployment.	**The clause may be read as:** "Must support client roaming across controllers".

89.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-20	Should provide a snapshot of air quality in terms of the performance and impact of interference on the wireless network identifying the problem areas.	**Query-1** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-2** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's. **Query-3** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's.	**The clause may be read as:** "Should provide a snapshot of interference on the wireless network identifying the problem areas".
90.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-Type-3 Technical Specification S. No.-21	Should provide an Air Quality rating on a per- radio basis to help gauge the impact of interference on the network	**Query-1** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's **Query-2** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's **Query-3** Request you to remove this clause. This clause is limiting leading OEM's in participation as supported by limited OEM's.	The clause stands deleted.
91.	Annexure-II Technical Specifications, A .Active Equipment & Components, 5 (i). Wireless LAN Controller/ Switch (WLC)-	Should provide real-time charts showing interferers per access point, on a per-radio, per channel basis.	**Query-1** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analysis results shows as per radio and not interferers. Please change it so all leading OEM's can participate **Query-2** "showing interference " in place of "showing interferers". Request you to modify the clause	**The clause may be read as:** "Should provide real-time charts showing interferers on a per radio, per channel basis".

	Type-3 Technical Specification S. No.-22		as RF analysis results shows as per radio and not interferers. Please change it so all leading OEM's can participate **Query-3** "showing interference " in place of "showing interferers". Request you to modify the clause as RF analysis results shows as per radio and not interferers. Please change it so all leading OEM's can participate	
92.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-2	Access point must have minimum two Ethernet port.	**Query-1** Access point must have minimum two Ethernet port. Along with the dedicated console port .Access point should have console port, because that required for remote troubleshooting. **Query-2** Access point must have minimum two Ethernet port. Along with the dedicated console port .Access point should have console port, because that required for remote troubleshooting. **Query-3** Two Ethernet port are not having any significance in indoor AP's and increase overall cost of project. Considering outdoor AP specification as well which has One Ethernet port it is requested to amend the clause " Access point must have minimum one Ethernet port."	No Change

93.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-3	Must support minimum 3x3 multiple-input multiple-output (MIMO) with three spatial streams	**Query-1** Must support minimum 4x4 multiple-input multiple-output (MIMO) with three spatial streams. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE **Query-2** Must support minimum 4x4 multiple-input multiple-output (MIMO) with three spatial streams. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE	No Change
94.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-4	Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac on the 5 GHz radios.	**Query-1** Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac, wave 2 on the 5 GHz radios. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE. **Query-2** Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac, wave 2 on the 5 GHz radios. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE.	No Change

95.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-5	Must support data rates upto 1.3 Gbps on 5 Ghz radio and 450 Mbps on 2.4 Ghz.	**Query-1** Must support data rates up to 1.7 Gbps on 5 GHz radio and 450 Mbps on 2.4 GHz. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE.1.7 Gbps is the upgraded throughput been supported by AP now. **Query-2** Must support data rates up to 1.7 Gbps on 5 GHz radio and 450 Mbps on 2.4 GHz. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE.1.7 Gbps is the upgraded throughput been supported by AP now	No Change
96.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-7	Must support minimum 21 dbm of transmit power for both 2.4 and 5 Ghz radios, (EIRP limited as per WPC regulations)	**Query-1** Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP limited as per WPC regulations). Request you to increase transmit power of AP's for better performance. **Query-2** Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP limited as per WPC regulations). Request you to increase transmit power of AP's for better performance. **Query-3** Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP	No Change

			limited as per WPC regulations). Request you to increase transmit power of AP's for better performance	
97.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Access Point S. No.-9	Should support configuring the access point as network connected sensor to access any network location covered by the access point to get real-time Spectrum analysis data.	**Query-1** Should support spectrum analysis. Request you to modify clause. **Query-2** Should support spectrum analysis. Request you to modify clause **Query-3** Should support spectrum analysis. Request you to modify clause	**The clause may be read as:** "Should support access point to get real-time spectrum analysis data".
98.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-11	Must incorporate radio resource management for power, channel, coverage hole detection and performance optimization.	**Query-1** Request you to remove this clause **Query-2** Request you to remove this clause **Query-3** Request you to remove this clause	**The clause may be read as:** "Must incorporate radio resource management".
99.	Annexure-II Technical Specifications, A .Active Equipment &	Should support mesh capabilities for temporary connectivity in areas with no Ethernet cabling.	**Query-1** Please Remove Mesh capability for mesh supported AP or write Mesh / WDS. Mesh network are primarily use when deploying MAN (Metropolitan Area Network) there are	No Change

		no use of Mesh. Wireless backhauling can also be achieved through WDS.	
100.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Wireless Access Points (WAP) Technical Specification, Indoor Wireless Acess Point S. No.-21	Must support Power over Ethernet, local power and power injectors. Should be provided with power adapter.	**Query-1** Since PoE and local power are given as either option of the power source, proving a power adaptor as a mandate is not relevant. Request to kindly remove or relax this clause.	The new line item has been added at annexure-I (Bill of Material) A. Active Equipment and components, Access Switch (non-POE) as Serial no. 4(D). "Power Injector for non-PoE switch – Quantity is 106".
101.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S. No.-2	Access point must have minimum one Ethernet port.	**Query-1** Access point must have one RJ-45 Ethernet port along with SFP/SFP+ Port for the fiber support, and a dedicated console port. having directed fiber connection to the AP is required for long distance wired connection support and should have a console port because that is required for remote troubleshooting. **Query-2** Access point must have one RJ-45 Ethernet port along with SFP/SFP+ Port for the fiber	**The clause may be read as:** "Access point must have minimum one Ethernet port along with SFP / SFP+ port for fibre connection".

			support, and a dedicated console port .having directed fiber connection to the AP is required for long distance wired connection support and should have a console port because that is required for remote troubleshooting.	
102.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S. No.-3	Must support minimum 2 x 2 multiple-input multiple-output (MIMO) with three spatial streams	**Query-1** Must support minimum 2 x 2 multiple-input multiple-output (MIMO) with two spatial streams.2x2 MIMO cannot support three spatial streams **Query-2** Must support minimum 2 x 2 multiple-input multiple-output (MIMO) with two spatial streams.2x2 MIMO cannot support three spatial streams	**The clause may be read as:** "Must support minimum 2 x 2 multiple-input multiple-output (MIMO) with two spatial streams".
103.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S. No.-4	Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac on the 5 GHz radios	**Query-1** Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac, wave 2 on the 5 GHz radios. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE **Query-2** Must support simultaneous 802.11n on the 2.4 GHz and 802.11ac, wave 2 on the 5 GHz radios. The latest on the technology we have 802.11 ac, Wave 2, 4x4MIMO Radios, so request to please change it to the latest protocol available by IEEE	No Change
104.	Annexure-II Technical Specifications,	Must support minimum 21 dbm of transmit power for both 2.4 and 5 Ghz radios, (EIRP limited as per WPC	**Query-1** Must support minimum 28 dbm of transmit	No Change

| A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S. No.-7 | regulations) | power for both 2.4 and 5 GHz radios, (EIRP limited as per WPC regulations).The EIRP support for the outdoor is 36dbm for the same to achive the transmit power of the Access point would be more than an indoor AP.

Query-2

Must support minimum 28 dbm of transmit power for both 2.4 and 5 GHz radios, (EIRP limited as per WPC regulations).The EIRP support for the outdoor is 36dbm for the same to achive the transmit power of the Access point would be more than an indoor AP.

Query-3
Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP limited as per WPC regulations). Request you to increase transmit power of AP's for better performance.

Query-4
Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP limited as per WPC regulations). Request you to increase transmit power of AP's for better performance

Query-5
Must support minimum 23 dbm of transmit power for both 2.4 and 5 Ghz radios (EIRP limited as per WPC regulations). Request you to increase transmit power of AP's for better performance | |

105.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S. No.-8	WAP should have the technology to improve downlink performance to all mobile devices including one-, two-, and three spatial stream devices on 802.11n. The technology should use advanced signal processing techniques and multiple transmit paths to optimize the signal received by 802.11 clients in the downlink direction without requiring feedback and should work with all existing 802.11 clients.	**Query-1** WAP should have the technology to improve downlink performance to all mobile devices including one-and two- spatial stream devices on 802.11n. The technology should use advanced signal processing techniques and multiple transmit paths to optimize the signal received by 802.11 clients in the downlink direction without requiring feedback and should work with all existing 802.11 clients. 2x2 MIMO cannot support three spatial streams. **Query-2** WAP should have the technology to improve downlink performance to all mobile devices including one-and two- spatial stream devices on 802.11n. The technology should use advanced signal processing techniques and multiple transmit paths to optimize the signal received by 802.11 clients in the downlink direction without requiring feedback and should work with all existing 802.11 clients. 2x2 MIMO cannot support three spatial streams.	**The clause may be read as:** "WAP should have the technology to improve downlink performance to all mobile devices including one-and two- spatial stream devices on 802.11n. The technology should use advanced signal processing techniques and multiple transmit paths to optimize the signal received by 802.11 clients in the downlink direction without requiring feedback and should work with all existing 802.11 clients".
106.	Annexure-II Technical Specifications, A .Active Equipment & Components, 6. Outdoor Wireless Access Points (WAP) Technical Specification S.	Must support Power over Ethernet / local power and power injectors. Should be provided with power adapter	**Query-1** Clause is asking for POE support on AP's also switch are asked with POE capability. Please clarify whether we need to supply POE injector with every Access point and also power Adapter too, alternatively as AP will be powered by POE switch so.	The new line item has been added at annexure-I (Bill of Material) A. Active Equipment and components, Access Switch (non-POE) as Serial no. 4(D). "Power Injector for non-PoE switch – Quantity is 106".

	No.-22			
107.	Annexure-II Technical Specifications, A .Active Equipment & Components, 7. Firewall, Technical Specification, S. No.-20	The product should be EAL certified of common criteria or NDPP or equivalent.	**Query-1** Kindly remove this clause. The latest products in the market have been released by OEMs across the board the newer product take time to get certified and therefore to ensure that the latest products compete in the RFP from a security perspective ,request you to kindly remove the clause. **Query-2** Kindly remove this clause. The latest products in the market have been released by OEMs across the board the newer product take time to get certified and therefore ,to ensure that the latest products compete in the RFP from a security perspective ,request you to kindly remove the clause.	No Change
108.	Annexure-II Technical Specifications, A .Active Equipment & Components, 8. Intrusion Prevention System (IPS), Technical Specification, S. No.-1	IPS should be dedicated appliance based with inspected Throughput should be minimum of 10 Gbps. IPS should provide scalability of atleast 50% of the throughput asked for. The IPS throughput specified should not decrease in case of DDOS scenario.	**Query-1** IPS should be dedicated appliance based with inspected Throughput should be minimum of 10 Gbps. IPS should provide scalability of at least 50% of the throughput asked for. The main function of an IPS is to protect the network against network threat .DDoS is not the primary functionality of in IPS. Therefore, request you to remove the DDoS clause from the IPS specification. If DDoS is a major concern, we would be happy to provide further collateral information on DDoS protection solution available in the market. **Query-2** IPS should be dedicated appliance based with inspected Throughput should be minimum of	**The clause may be read as:** "IPS should be dedicated appliance based with inspected Throughput should be minimum of 10 Gbps. IPS should provide scalability of atleast 50% of the throughput asked for".

			10 Gbps. IPS should provide scalability of at least 50% of the throughput asked for. The main function of an IPS is to protect the network against network threat .DDoS is not the primary functionality of in IPS. Therefore, request you to remove the DDoS clause from the IPS specification. If DDoS is a major concern, we would be happy to provide further collateral information on DDoS protection solution available in the market	
109.	Annexure-II Technical Specifications, A .Active Equipment & Components, 8. Intrusion Prevention System (IPS), Technical Specification, S. No.-14	It should support active/passive, active/active, Symmetric & Asymmetric HA without any 3rd party load balancers.	**Query-1** Kindly remove this Clause .These specification are specific to the OEM only and therefore restrict all other, including Cisco, from competing in this RFP. Therefore, in the interest of an open and completive RFP, request you to kindly remove this clause. **Query-2** Kindly remove this Clause .These specification are specific to the OEM only and therefore restrict all other, including Cisco, from competing in this RFP. Therefore, in the interest of an open and completive RFP, request you to kindly remove this clause.	**The clause may be read as:** "It should support active/passive, active/active, Symmetric & Asymmetric HA".
110.	Annexure-II Technical Specifications, A .Active Equipment & Components, 8. Intrusion Prevention	While in HA, all the segments/ports should be available for inline protection & all synchronization should be done over the out of the band management port, not sacrificing the inline ports	**Query-1** While in HA, all the segments/ports should be available for inline protection. The maintenance of the stateful syn is dependent on majorly the firewall and IPS is dedicated for threat mitigation. Therefore, this point is not entirely relevant for this product category.	The clause stands deleted.

	System (IPS), Technical Specification, S. No.-15		**Query-2** While in HA, all the segments/ports should be available for inline protection. The maintenance of the stateful syn is dependent on majorly the firewall and IPS is dedicated for threat mitigation. Therefore, this point is not entirely relevant for this product category.	
111.	Annexure-II Technical Specifications, A .Active Equipment & Components, 8. Intrusion Prevention System (IPS), Technical Specification, S. No.-21	The product should be EAL certified of common criteria or NDPP or equivalent	**Query-1** Will the NSS report be considered for the equivalent report? Nss is a third party organization which evaluates security products for all leading OEMs .NSS report are widely considered as the most technically precise certification for security products. **Query-2** Will the NSS report be considered for the equivalent report? .Nss is a third party organization which evaluates security products for all leading OEMs .NSS report are widely considered as the most technically precise certification for security products.	No Change
112.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , General Feature, S. No.-2	Equipment should support 2,00,000 or more number of new connection per second.	**Query-1** Please reduce this to 100000. The firewall throughput asked is 8 GbPS 2L new sessions are too high WRT to asked throughput.	No Change

113.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , General Feature, S. No.-3	Equipment should support 6 million or more number of concurrent connection /session	**Query-1** Please reduce this to 1.25mil The firewall throughput asked is 8 GbPS. 6 mil new sessions are too high WRT to asked throughput.	No Change
114.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , General Feature, S. No.-7	Equipment should support 1024 VLAN	**Query-1** Please reduce this to 512. VLAN is a layer 3 feature and should be taken care by L3 switch, UTM should not be loaded with layer 3 features.	No Change
115.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) ,General Feature,	The proposed solution must support 3 Gbps throughput	**Query-1** As per clause No. "Equipment should support 8 Gbps or more Firewall throughput" clause no 9 is not relevant / duplicate clause, request to remove this.	No Change

	S. No.-9			
116.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM), Administration, Authentication & General Configuration, S. No.-2	Equipment must support user/ip/mac binding functionality to map username with IP address & MAC address.	**Query-1** Please amend this to IP or MAC. Mapping IP with MAC is the general best practice followed up by the industry, this is vendor specific.	No Change
117.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM), VPN, S. No.-4	Equipment should support external certificate authorities and export facility of Client-to-site configuration for hassle free VPN configuration in remote Laptop/Desktop. It should also support commonly available IPSec VPN clients.	**Query-1** Please remove this. Sonicwall doesn't support integrating with open source or third party softwares due to security reasons	No Change
118.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management	Equipment should have an appliance reporting with minimum 200 GB storage or external reporting system based on user (not on IP basis). If reporting system is external, hardware needs to be quoted separately .	**Query-1** Today all educational institute store minimum 6 month of logs for forensics. Considering storage of 6 months, it is suggested to increase the capacity of reporting solution from 200GB to at least 1 TB capacity.	No Change

	(UTM), Logging and Reporting, S. No.-1			
119.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , Logging and Reporting, S. No.-10	The proposed solution should be able to provide detailed reports about all mails passing through the firewall.	**Query-1** Please remove this. This is dedicated e-mail security feature not an UTM feature more over anti spam service on UTM is also not asked.	No Change
120.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , Web content and Application filtering, S. No.-2	The proposed solution must work as Standalone HTTP proxy.	**Query-1** Please remove this. This is vendor specific term, moreover proxy is 3rd gen which can be easily bypassed, where in working in gateway mode reduces risk of breach.	No Change

121.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM),Web content and Application filtering, S. No.-3	The proposed solution must have more than 75 web categories	**Query-1** Please reduce this to 54. This is vendor specific number, plz neutralise this to 50+	No Change
122.	Annexure-II Technical Specifications, A .Active Equipment & Components, 9.Unified threat management (UTM) , IPS, S. No.-3	The proposed solution should have 7000+ signature database and should able to inspect SSL base traffic	**Query-1** Please reduce this to 5000+ This number mentioned is vendor specific, we have approx 5 mil signatures on cloud.	**The clause may be read as:** "The proposed solution should have 5000+ signature database and should able to inspect SSL base traffic".
123.	Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps	Passive Solution should be upgradable to intelligent solution through same make without changing existing Information Outlet & Patchcords.	**Query-1** Request you to remove the clause. Intelligent network requires change of complete hardware again. Thus making passive infrastructure ready is irrelevant. **Query-2** Intelligent network requires change of complete hardware again. Thus making passive infrastructure ready is irrelevant. So please remove this clause.	No Change

			Query-3 Intelligent solution is always depend on the OEM to OEM. The end node connectivity is never change. It is solution oriented approch not the product oriented. Query-4 Intelligent network requires change of complete hardware again. Thus making passive infrastructure ready is irrelevant.	
124.	Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-9	The Information Outlet Should have Shutter with Spring loaded mechanism, and also should have feature as IDC V-Shaped Contacts	**Query-1** The Information Outlet / faceplate should have shutter mechanism. "spring loaded shuttered" is proprietary Molex nomenclature. Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate **Query-2** "spring loaded shuttered" is proprietary Molex nomenclature. Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate. **Query-3** Spring shutters come with I/O & face plate. We propose shutter on face plate. **Query-4** "Spring loaded shuttered" is proprietary Molex nomenclature. Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate.	**The clause may be read as:** "The Information Outlet Should have Shutter or hinged dust cover mechanism and also should have feature as IDC V-Shaped Contacts".
125.	Annexure-II Technical	meet or Exceed EIA/TIA 568B2.1 CAT 6 Specifications. The Cable should be	**Query-1**	No Change

	Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-13	tested up to 500 Mhz or more.	OEM should be provide 4 Connector ETL Performance Certificate upto 500 Mhz or more.	
126.	Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-14	The Patch panel shall be available in 24 ports configurations in one Rack Unit for unshielded installation and shall fit into a 19" size. Rear cable management should only occupy the same area as the panel. Should be made of Powdercoated CRS (Cold Rolled Steel) and loaded with Datagate Jacks with Spring Loaded Shutter. Should Comply UL 1863 & CSA C22.2	**Query-1** The patch panel shall be available in 24 ports configuration in one rack unit for unshielded installation and shall fit into a 19" size. Rear cable management should only occupy the same area as the panel. " Datagare jack" and "spring loaded structured" is proprietary Molex nomenclature. Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate. Request to amend the clause. **Query-2** "Data gate jack " and "spring loaded shuttered " is proprietary Molex nomenclature . Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate. **Query-3** As patch panel will be inside the racks, where	**The clause may be read as:** The Patch panel shall be available in 24 ports configurations in one Rack Unit for unshielded installation and shall fit into a 19" size. Rear cable management should only occupy the same area as the panel. Should be made of Powdercoated CRS (Cold Rolled Steel) and Shutter or hinged dust cover. Should Comply UL 1863 & CSA C22.2

			shutters are not required on patch panel I/O, We propose additional blank module for free/empty ports. Panel should be UL and ETL Verified.	
			Query-4 "Data gate jack" and "spring loaded shuttered" is proprietary Molex nomenclature. Not offered by any other OEM. Shutter mechanism can be asked in either IO or faceplate.	
127.	Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-15	The 19" rack mount, high quality enclosure fibre termination unit LIU should be made of CRS – Cold Rolled Steel And Should accept SC/ST, MTRJ, LCadapters, etc. Should have Wall & Rack accommodation. Rear, Side & Base access for incoming/outgoing Backbone cables.	**Query-1** Same device can not be have Wall & Rack mount. Kindly amend with only Rack Mount. And LIU has to be mount into Rack hence it better if it is light weight. Request to amend with LIU material CRS / Power coated Aluminium alloy.	**Explanation of the clause:** "Additional L brackets can be provided for making LIU as wall mount".

| 128. | Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-17 | 12 Core fibre Outdoor Armored Fibre should be Gelly Filled , Cush Resistance : Should have Steel wires. Should have LSZH outer sheath with Fire Retardant properties. | **Query-1**
 12 Core fiber Outdoor Armored Fiber should be jelly filled, Crush Resistance : should have stell wires / Steel tape. Should have LSZH outer sheath with Fire Retardant Properties. Request to amend the clause. Steel wires / Steel tape.

 Query-2
 Steel wires / Steel tape

 Query-3
 As per Industry trend use FRP Rods instead of Steel wire. FRP Rods are having heigher strength compare to steel material. Request to amend the FRP Rods / Steel wire.
 Outdoor Fiber do not require the LSZH sheath as per the standard. LSZH is recommended for indoor installation. In Outdoor LSZH, will not provide any value add but it can increase the Fiber Cable cost very high.

 Query-4
 Steel wires/ Steel tape.

 Query-5
 12 core fibre Outdoor Armored Fibre should be Gelly Filled , Cush Resistance : Should have Steel wires/steel Tape. Should have LSZH outer sheath with Fire Retardant properties. Request to amend the clause. Steel wires / Steel tape. | No Change |

			Query-1	No Change
129.	Annexure-II Technical Specifications, A .Active Equipment & Components, 11. (iii) UPS 1KVA, 14. Customer Premises Radio for 25 Mbps Aggregate Throughput B. Passive Components , S. No.-19	The bidder shall provide a 25 years industry standards compliance warranty, the 25year Performance warranty shall cover product manufacturing defects for all passive Structured Cabling System as well as components. Labor cost should also be part of OEM Performance warranty.	25 Year performance warranty policies are differ OEM to OEM. Labour Cost is always a partner scope not the OEM. Request to amend the same.	
130.	General	Additional Point	**Query-1** There is no clause for information of consortium for applying in the bidding. We would request you to kindly consider an incorporate.	Consortium is not permissible for this tender.
131.	General	Additional Point	**Query-1** Please Provide the list of Universities	It is a rate contract and the order will be placed as & when ERNET will receive such orders
132.	General	Additional Point	**Query-1** Please Provide the details of existing equipments.	RFP is self-explanatory
133.	General	Additional Point	**Query-1** Please clarify on FMS requirement.	RFP is self-explanatory

All other terms & conditions of the tender will remain unchanged otherwise specified in above reply