

INDIAN INSTITUTE OF TECHNOLOGY (IIT), KHARAGPUR

AMENDMENT NO. – I

Dated: 28.06.2019

Name of Project: Tender for Development of IT Network Infrastructure (LAN & Wi-Fi System), Operation & Maintenance and Facility Management Services (3 years) for Super Specialty Block at IIT-Kharagpur Medical College & Hospital

Tender No. : HSCC/IIT-KGP/IT/NW/2019 dated 14.06.2019

Pre Bid Queries raised by bidders during pre -bid meeting held on 19.06.2019 at HSCC's Corporate Office, Noida

S. No	Volume, Page, Clause	Tender Document Clause	Pre-bid Queries	Reply
1	VOL 01, Page 7, Sr. No. 2	Turnover-Average annual financial turnover should be at least 50% of the estimated cost during the immediate last three consecutive financial year ending FY 2017-18. The turnover will be considered only for bidder and not for Group Company or subsidiary company etc.	Kindly Increase The turnover criteria to 4 Times the Estimated Cost of the Bid	No Change, Tender Condition Prevails.
2	VOL 01, Page 9, Notice Inviting Bids (1.22)	Defect Liability Period - @ 1.5 % per month of delay to be computed on a per day basis. Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10%	Request you to modi fy LD as 0.5 % per week upto maximum 5% of the contract value.	No Change, Tender Condition Prevails.
3	VOL 01, 1.4 Eligibility Criteria for Interested bidders:, 1.5 page no. 7	4 Calendar months(Table of Mile Stone(s) from the date of start or from the first date of handing over of the site, whichever is later, in accordance with the phasing/ milestones, indicated in the tender documents).	Request to 8-10 weeks for delivery and 8-10 weeks for installation Request for amendment as all OEM will take 8-10 weeks for delivery.	No Change, Tender Condition Prevails.
4	VOL 01, 1.4 Eligibility Criteria for Interested bidders:, 1.15 page no. 8	The Bidders should also visit and study current site/ other applications running in IIT-KGP and ensure that functional & technical requirements mentioned in the document are fulfilled. Any kind of incompatibility in the system will not be accepted. No claim will be entertained in this regard	Request to provide the clarification for incompatibility in the system.Request for remove this clause.	No Change, Tender Condition Prevails.
5	VOL 01, 1.4 Eligibility Criteria for Interested bidders:, 1.16 page no. 9	Accepting Authority does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.	Request you to please remove the clause as we will supply, install and configure as per RFP BOQ, if anything required to upgrade in existing infra it will be responsibility of HHCC/IIT. Request for remove this clause.	No Change, Tender Condition Prevails.
6	Volume 02, Page no 25, Clause 36 Payment Terms-	CLAUSE 36 Payment Terms (i) 65% on delivery of the equipment at site subject to submission of inspection report. (ii) 25% on installation and commissioning of the equipment and COTs. (iii) 10% on completion of three years warranty.	Hardware (Active and Passive items) & Software for LAN & Wi-Fi works - (i) 70% on delivery & inspection of the equipment at site subject to submission of inspection report. (ii) 20% on installation and commissioning of the equipment. (iii) 10% on Activation of all services covered under scope of project & handing over to the Client	No Change, Tender Condition Prevails.
7	Volume 01, Tender Fee & Bid Security	Tender Fee: 5,000/- & Bid Security: 11,10,000/-	As we are Registered Company with office of NSIC & MSME, Govt. of India, – your acceptance is requested to submit the valid NSIC & MSME certificate instead of & EMD & tender fee amount.	Amended. Please refer to point nos. 1 & 2 at Annexure I.
8	Vol 02, Page 26, Clause 36, Payment terms	CLAUSE 36 Payment Terms (i) 65% on delivery of the equipment at site subject to submission of inspection report. (ii) 25% on installation and commissioning of the equipment and COTs. (iii) 10% on completion of three years warranty.	(i) 70% on delivery of the equipment at site subject to submission of inspection report. (ii) 30% on installation and commissioning of the equipment and COTs. Request for the relaxation in payment terms as per the industry standard and further as per the document bidder have to submit the 5% Performance Bank guarantee for both Part-A & Part-B.	No Change, Tender Condition Prevails.
9	VOL 02, PAYMENT TERMS CLAUSE 36 (b)	The Client against bills submitted to the client shall make quarterly payment after completion of each quarter. However, copy of bill needs to be submitted to HSCC also.	Kindly consider below payment term: 100% of quarterly O&M charges to be paid at thebegining of each quarter.	No Change, Tender Condition Prevails.

10	VOL 02, CLAUSE 37 Factory Inspections, page no. 26	<p>Factory Inspections: The bidder will submit details of the tests to be carried out by the bidder at factory site, on the proposed Hardware and system software will be submitted along with the requisite certification by the bidder within 30 days of the placement of order.</p> <p>The bidder shall conduct these tests and maintain detailed records of the results. The conduct and proper observance of the bidder's standard inspections and test procedures shall be the sole responsibility of the bidder.</p> <p>Client/HSCC shall be free to depute authorized representative/s to observe the bidder standard tests and procedures, indicated above, on the computer equipment earmarked for supply to Client/HSCC. All records of such tests shall be made available to Client/HSCC representative/s for scrutiny as and when required. The expenses on Client/HSCC representative/s for travel and stay will, however, be borne by bidder.</p>	Please clarify for factory test required or not because it is impact on commercials.	Amended. Please refer to point no. 3 at Annexure I.
11	VOL III, Page 13, Sr. No. 24	Billing & Certification	Payment Terms against Part B of BOQ not clear kindly clarify	Please refer to Volume 02, Payment Terms, Clause 36 (b)
12	VOL 04, Section 11 - Link Load Balancer,Page 44, Clause no. 16	Must support A/AAAA Records for inbound load balancing	We understand the the device should work as an Authoritative DNS Server to respond to DNS queries for internal servers. Having A, AAAA records served by the LLB will only solve half the problem. The LLB should support Full-DNS Resolution and should support hosting multiple other records such as MX, PTR, SOA etc to act as a Smart DNS and Load Balancer accordingly. Hence, we recommend to change the clause to "Must support A/AAAA Records for inbound load balancing. It should be capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc."	No Change, Tender Condition Prevails.
13	VOL 04, Section 11 - Link Load Balancer,Page 44, Clause no. 19	Must provide inter-site Tunnels with inbound/outbound failover and load balancing	We understand that this clause is talking about MPLS Load Balancing and Inter-site means connectivity between 2 locations. Since this clause is not clearly elaborated, we request for elaboration. Also, we suggest using industry standard terms and change the clause to "Must provide MPLS Load Balancing with Remote Site Health Check, inbound/outbound failover and load balancing"	No Change, Tender Condition Prevails.
14	VOL 04, Section 11 - Link Load Balancer,Page 45, Clause no. 22	The proposed OEM should have direct presence in India and should have a registered office in India	Along with the presence of the OEM in India, it is critical to ensure that safe practices are being used to develop and better the code and software and hence, we recommend adding ISO 27001:2013 Certification to the clause. Please change the clause to "The proposed OEM should have direct presence in India and should have a registered office in India. The OEM's Indian Operation should be ISO/IEC 27001:2013 Certified."	No Change, Tender Condition Prevails.
15	VOL 04, Section 11 - Link Load Balancer,Page 43, Clause no. 2	The proposed solution should provide throughput of 10 Gbps	All the current RFPs and Data Centers are being designed keeping scalability and multi-tenancy in mind. A true Multi-Tenant Hardware is capable of hosting multiple tenants of various flavours including open source and third-party software solutions. We recommend changing the clause to "The proposed solution should provide throughput of 10 Gbps per Instance and the Appliance should be scalable to 40 Gbps and able to host 4 such instances from Day 1. The same appliance must have the capability to install and run open source and third party software solutions from Day 1."	No Change, Tender Condition Prevails.
16	VOL 04, Section 11 - Link Load Balancer,Page 45, Clause no. 20	Proposed solution should be manageable from a single management platform	Along with the management capabilities, the proposed appliance should support high-availability/Cluster based on Standard VRRP to achieve redundancy. We suggest to change the clause to "Proposed solution should be manageable from a single management platform. The LLB should support High-Availability/Cluster using Standard VRRP (RFC 2338) and should support N+1 model of high availability where 1 Cluster can accommodate up to 32 Nodes."	No Change, Tender Condition Prevails.

17	VOL 04, Section 11 - Link Load Balancer, Page 43, Clause no. NA	NEW CLAUSE ADDITION REQUEST	All other components have been asked to comply to multiple certifications in order to qualify for the RFP but there is no qualifying criteria defined for LLB. Since Gartner has stopped publishing "Magic Quadrant for ADC" back in 2016, we request to consider "Market Guide for ADC" by Gartner and the Top 4 Vendors according to the latest report by IDC. Please add the following clause to maintain uniformity in the qualification criteria - "The proposed OEM must be present in the latest "Market Guide for ADC" by Garner and should be among the Top 4 ADC Vendors according to the latest report by IDC."	No Change, Tender Condition Prevails.
18	VOL 04, List of Approved Makes, Page 51, S.No. 3 - Load Balancer	Fortinet, F5	This clause limits the leading ADC/Load Balancer OEMs to participate in the bid. To ensure fair and wide participation in the RFP, we request to REMOVE this clause.	No Change, Tender Condition Prevails.
19	VOL 04, Page 28, L3 Distribution Switch, Point#8	Should have stacking facility with dedicated stacking port and support minimum total stacking bandwidth of 300 Gbps. Should support stacking of eight switches into a virtual switch.	Should have stacking facility with dedicated stacking port and support minimum total stacking bandwidth of 400 Gbps. Should support stacking of eight switches into a virtual switch. Considering 8 switches in a stack, 300 Gbps would be less bandwidth for an optimal performance and hence should be increased to at least 400 Gbps for a seamless performance during link failure scenario.	No Change, Tender Condition Prevails.
20	VOL 04, Page 33, Server farm Switch, Point#27	Switch OEM should be in the Gartner's Leaders & Challengers quadrant for Wired and Wireless LAN Access Infrastructure since last 3 years	Switch OEM should be in the Gartner's Leaders & Challengers quadrant for DC Networking since last 3 years. The features mentioned for the switch can only be provided using a Datacenter based switch and hence the Magic quadrant should also change to DC rather than wires and wireless infrastructure.	No Change, Tender Condition Prevails.
21	VOL 04, Page 38, Indoor Access Points, Point#4	AP should have 1x10/100/1000 Ge LAN port.	AP should have 2 x10/100/1000 Ge LAN port for link aggregation and redundancy. There should be at least a redundant interface on the AP for fault tolerance and for link aggregation to increase the bandwidth for a better performance.	No Change, Tender Condition Prevails.
22	VOL 04, Page 39, Indoor Access Points, Point#10	The access point should be capable of performing security scanning and serving clients on the same radio. It should be also capable of performing spectrum analysis and security scanning using same radio.	The access point should be capable of performing security scanning, spectrum analysis and serving clients at the same time. Pls rephrase for more OEM participation.	Amended. Please refer point no. 4 at Annexure I.
23	VOL 04, Page 39, Indoor Access Points, Point#10	NEW CLAUSE	Must have -98 dB or better Receiver Sensitivity. Request to include for defining a baseline performance for the AP's receiver sensitivity so that no OEM can position an entry level product.	No Change, Tender Condition Prevails.
24	VOL 04, Page 39, Wireless Controller, Point#2	WLC should be dedicated appliance with support for up to 200 Access points. Should be appliance in High Availability mode. Should have 2 nos. 10/100/1000 ports and 2x 10 gigSFP+ MMF port preloaded from day one to connect to LAN.	WLC should be dedicated appliance with support for up to 200 Access points. Should be appliance in High Availability mode. Should have 2 nos. 10/100/1000 ports and 2x 10 gigSFP+ MMF port preloaded from day one to connect to LAN. The WLC will either 10 G interface to connect to the LAN or will use 1g interface, but both cannot be used at the same time. Hence, requesting to modify the same for more OEM participation.	No Change, Tender Condition Prevails.
25	VOL 04, Page 28, L3 Distribution Switch, Point#14	Should have support for advanced routing support including OSPF, BGP, policy based routing & Multicast routing is supported, including PIM dense mode (PIMDM), PIM sparse-dense mode, and source-specific multicast (SSM), PBR, BGPv4 and OSPFv3 etc	Request to please modify as "Should have support for advanced routing support including OSPF, BGP, policy based routing & Multicast routing is supported, including PIM dense mode (PIMDM), PIM sparse-dense mode, and source-specific multicast (SSM) from day-1". This will ensure no further investment and switch is ready with all the functionality to use as Layer 3 switch.	No Change, Tender Condition Prevails.
26	VOL 04, Page 30, L3 Distribution Switch, Point#34	The switch should be common criteria EAL2 or NDPP certified from day 1	Request to please change this as "Request to modify as "Switch family or Switch OS should be EAL2 / NDPP certified from day-1". OEMs usually go for such certifications for their switch family or switch OS depending upon their own switch hardware. Security lies with OS only.	No Change, Tender Condition Prevails.
27	VOL 04, Page 38, Wireless access points Point#2	Access Point radio should be minimum 3x3 MIMO with 2 spatial streams on 5ghz.	Request to please change as "Access Point radio should be minimum 3x3 MIMO with 3 spatial streams on 5ghz". This is very relevant when RFP asked for 3x3 MIMO, also performance will be impacted.	No Change, Tender Condition Prevails.
28	VOL 04, Page 32, Server farm Switch Point#6	Should have switching backplane of 2.5 Tbps.	Request to please modify this and make it as per ports requirements, which is coming 1440Gbps(1.4Tbps). Request to please change this as "Should have switching backplane of 1.4 Tbps".	No Change, Tender Condition Prevails.
29	VOL 04, Page 32, Server farm Switch Point#21	Support management using CLI, GUI, using Web interface. Additionally, management can also be done using NMS.	Request to please change as "Support management using CLI. Additionally, management can also be done using NMS". This is high end switch and for Data Centre use for secure server connectivity, where GUI based access is not recommended. Request to please modify this clause as "Support management using CLI. Additionally, management can also be done using NMS".	Amended. Please refer point no. 5 at Annexure I.

30	VOL 04, Page 32, Server farm Switch Point#23	Hardware of the switch should be common criteria EAL2 / EAL3 / NDPP certified.	Request to please change this as "Switch family or Switch OS should be EAL2 / EAL3/ NDPP certified from day-1".OEMs usually go for such certifications for their switch family or switch OS depending upon their own switch hardware.Security lies with OS only.	No Change, Tender Condition Prevails.
31	VOL 04, Page 32, Server farm Switch Point#2	Each Switch should be scalable to support minimum of 6x 40G QSFP ports as and when needed.	Request to please change this as "Each Switch should be scalable to support minimum of 4x 40G QSFP ports as and when needed". Presently there is no scope 40G connectivity in server and Core,for future needs 4 ports per switch may be sufficient for connectivity.Request to kindly consider.	No Change, Tender Condition Prevails.
32	VOL 04, Page 32, Server farm Switch Point#22	The OEM must feature in the Leaders/ Challengers segment of the Gartner Magic Quadrant for Data Centre Enterprise Networking	Request to please change this as "Switch OEM should be in the Gartner's Leaders & Challengers quadrant for Wired and Wireless LAN Access Infrastructure since last 3 years ".The same is already mentioned for all the items.	Amended. Please refer point no. 6 at Annexure I.
33	VOL 04, Page 33, External Firewall Point#7	Should support at least 10 Gbps of NGFW performance throughput (includes FW, Application Visibility & IPS)	Should support at least 40 Gbps of NGFW performance throughput (includes FW, Application Visibility & IPS) measured on Enterprise Mix Traffic. As per the Interface requirement, the specification has asked for support of 4x40G interfaces from day one. Now if the 40G interfaces are in use & data traffic passes through the same, then to scan that high volume of traffic flow on 40G interfaces, the NGFW performance throughput should be minimum 40Gbps, or else there will be a bottleneck in the performance & the device will be down. Also the performance throughput should be measured on Enterprise Traffic Mix as that will have resemblance with the actual scenario, or else performance measured on ideal test condition has no meaning as that will be drastically scale down when the solution will be placed on real world traffic environment	No Change, Tender Condition Prevails.
34	VOL 04, Page 34, External Firewall Point#9	NG Firewall should support at least 60,000 connections per second with Application visibility	NG Firewall should support at least 400,000 connections per second with Application visibility. The spec has asked for 4,000,000 concurrent sessions. So at least 10% of that traffic should be considered as new connections per second considering a big infrastructure where 8x 10G & 4x 40G interfaces has been required for data traffic connectivity through the Firewall	No Change, Tender Condition Prevails.
35	VOL 04, Page 35, External Firewall Point#6	Should support 4.5 Gbps of real-world NGFW (FW, AVC and IPS) performance / throughput	Should support 10 Gbps of real-world NGFW (FW, AVC and IPS) performance / throughput measured on Enterprise Mix Traffic. As per the Interface requirement, the specification has asked for support of 4x10G interfaces from day one. Now if the 10G interfaces are in use & data traffic passes through the same, then to scan that high volume of traffic flow on 10G interfaces, the NGFW performance throughput should be minimum 10Gbps, or else there will be a bottleneck in the performance & the device will be down. Also the performance throughput should be measured on Enterprise Traffic Mix as that will have resemblance with the actual scenario, or else performance measured on ideal test condition has no meaning as that will be drastically scale down when the solution will be placed on real world traffic environment	No Change, Tender Condition Prevails.
36	VOL 04, Page 35, External Firewall Point#8	Firewall should support at least 20,000 connections per second with application visibility turned on	Firewall should support at least 200,000 connections per second with application visibility turned on. The spec has asked for 2,000,000 concurrent sessions. So at least 10% of that traffic should be considered as new connections per second considering a big infrastructure where 4x 10G interfaces has been required for data traffic connectivity through the Firewall	No Change, Tender Condition Prevails.
37	VOL 04, Page 35, External Firewall Point#	Should support more than 15,000 (excluding custom signatures) IPS signatures or more	Should support more than 10,000 (excluding custom signatures) IPS signatures or more. The given parameter is specific to some vendors. So to make it generic so that all the reputed OEMs, who will qualify as per the given Gartner clause can comply, kindly relax the parameter as suggested	Amended. Please refer point no. 7 at Annexure I.
38	VOL 04, Page 27, Modular Core Chassis Switch Point#17	Packet buffer : minimum 20 MB	The required packet buffer size is too high for campus requirement, Generally Highest buffer is required for ISCSI traffic or Video traffic. If the traffic is going beyond the port capacity then buffer is required. in this case 10G port will cater the 10GB of data per second "Hence request you to please change this to "Switch should have a minimum buffer of 10 Mb" in order to propose the optimal solution product and allow us to compete.	No Change, Tender Condition Prevails.
39	VOL 04, Page 27, Modular Core Chassis Switch Point#22	STP, Trunking, Private VLAN (PVLAN), Q-in-Q, Shaped Round Robin (SRR) scheduling, Committed Information Rate (CIR), and eight egress queues per port	All OEM follow the different method for scheduling and request you to please change this to "STP, Trunking, Private VLAN (PVLAN), Q-in-Q, Shaped Round Robin (SRR) scheduling or equivalent, Committed Information Rate (CIR), and eight egress queues per port" so that leaders can participate.	No Change, Tender Condition Prevails.
40	VOL 04, Page 27, 48 Port Access Switch non POE Point#3	Switch shall have minimum 128 Gbps of switching fabric and 130 Mbps of forwarding rate.	As a industry standard practice the forwarding rate is always less than the switching fabric performance . Request you to please change the forwarding rate to 110Mpps to meet & deliver the required performance. This will allow us to propose the optimal solution product and to compete.	Amended. Please refer point no. 8 at Annexure I.

41	VOL 04, Page 27, Server farm Switch Point#22	The OEM must feature in the Leaders/ Challengers segment of the Gartner Magic Quadrant for Data Centre Enterprise Networking	Request you to please replace this requirement with " The OEM must feature in the Leaders/ Challengers segment of the Gartner Magic Quadrant for wired and wireless LAN Infrastructure. This requirement is of wired and wired lan infrastructure and not for data center routing. without the change we Leaders of Gartner will not be able to participate.	Amended. Please refer point no. 6 at Annexure I.
42	VOL 04, Page 38, Wireless access points Point#2	Access Point radio should be minimum 3x3 MIMO with 2 spatial streams on 5ghz.	As per industry standards and products available with most of the OEM,s we request to change the same to "Access Point radio should be minimum 4x4 MIMO with 4 spatial streams on 5ghz. Also would request that HSCC shall look at the 11ax ready Access Points as they are the current and future looking technology / product.	No Change, Tender Condition Prevails.
43	VOL 04, Page 38, Wireless access points	New Point	Today Industry is looking at protecting the Network and hence the requirement of AAA NAC has become defacto Standard. Request you to please add the heterogeneous promiscuous mode AAA NAC requirement in the specifications and BOQ.	No Change, Tender Condition Prevails.
44	VOL 04, Page 44, Link Load Balancer Point#3	The appliance should have 4 *gigabit ethernet ports with 2 *copper and 2 *multimode fiber modules preloaded from day one. This should also have 2* 10 gigabit ethernet ports with 2 *multimode fiber modules preloaded from day one	The proposed device should have sufficient number of ports to meet current and feature requirements. Suggested Clause: The appliance should have 8*1G Copper and 2*10G SFP+ ports preloaded from day one	No Change, Tender Condition Prevails.
45	VOL 04, Page 44, Link Load Balancer Point#19	Must provide inter-site Tunnels with inbound/outbound failover and load balancing	As per industry standard, inter-site tunnel is a feature of Firewall. This clause is not relevant for a load balancer. Hence, we request you to remove this clause. Suggested Clause: Kindly Remove this Clause	No Change, Tender Condition Prevails.
46	VOL 04, Page 44, Link Load Balancer	New Clause	The proposed device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, acceleration resources, Operating system to provide complete separate environment from applications and management perspective. Suggested Clause : The proposed Appliance should be dedicated hardware and it should support next generation features like Virtualization that virtualizes the Device resources—including CPU, memory, network and acceleration resources. Each virtual ADC instance contains a complete and separated environment of the Following: a) Resources, b) Configurations, c) Management, d) OS Appliance should have 5 virtual instance from day-1 and scalable upto 10	No Change, Tender Condition Prevails.
47	VOL 04, Page 44, Link Load Balancer	New Clause	Industry Standard Certification should be considered in order to have benchmark and get healthy competition among the Industry Technology Leaders. Please note that Gartner Leader Quadrant qualifies 3 OEM's. for the ADC. Suggested Clause: OEM should be present in Gartner's LEADER magic quadrant for ADC in the latest published report	No Change, Tender Condition Prevails.
48	VOL 04	Earthing of UPS and Network Equipments	Earthing Pits are in Biider or Buyer scope kindly clarify	No Change, Tender Condition Prevails. Please refer point nos. 25-28 at Page 22 of Volume IV & Sr No. 18 & 19 of BoQ, Volume 5.
49	VOL 04, Page 8, Point#4	Detailed Scope of Work-SI should provide the internet connectivity at site during the implementation period of the project. Adequate speed of the internet should be (minimum 50 mbps or higher bandwidth) available as per the requirements of the project.	After Implmentation ,installtion of Internet links and recurring cost for next 3 years are in scope of buyer ,kindly confirm.	No Change, Tender Condition Prevails. Internet Connectivity is required during impementation period.
50	VOL 04, Page 15, Sr. No. 7	Help Desk Services	RFP asking for Help desk Services,but Specification of Help desk Tool/Ticketing Tool not given,it is good to provide Specification of Help desk Tool,which can help bidder to design solution on same Standerd	Any Solution to meet the SLA.

51	VOL 04, Page 20, Sr. No. 7	SI shall provide onsite maintenance support for the complete hardware, software & cabling system of the proposed networking system for period of 3 years after handing over to the Client.	Kindly Remove ,passive cabling support from the scope of Bidder as it is allredy done by some other vendor and must be in scope of vender who has done this work	Amended. Please refer point no. 9 at Annexure I.
52	VOL 04, Page 13, Sr. No. 3	I/O points, other Passive Components, NMS software and remaining devices	Kindly Remove ,passive cabling support from the scope of Bidder as it is allredy done by some other vendor and must be in scope of vender who has done this work	Amended. Please refer point no. 10 at Annexure I.
53	VOL 04, Page 42,NMS	The proposed Network Management Software shall be a standalone, comprehensive management platform that delivers integrated, modular management capabilities across fault, configuration, accounting, performance, and security (FCAPS) needs.	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS. This warrants an industry-standard solution. Hence requesting you to please update the cluase as "The proposed Network Management Software shall be a standalone, comprehensive management platform that delivers integrated, modular management capabilities across fault, configuration, accounting, performance, and security (FCAPS) needs and must be an industry standard, enterprise grade solution and shall be in the present in Gartner's MQ reports for NPMD for last two years (2018 & 2019)."	No Change, Tender Condition Prevails.
54	VOL 04, Page 42,NMS	The software shall come with an initial license for 200 managed devices. Additional node licenses shall be available to extend the node limit.	To ensure that the proposed NMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels. Hence requesting you to please update the cluase as " The proposed NMS software shall come with an initial license for 200 managed devices. Additional node licenses shall be available to extend the node limit. It MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 5,000+ network nodes in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding."	No Change, Tender Condition Prevails.
55	VOL 04, Page 42,NMS	Centralized and Distributed deployment capability.	ISO 27034-1 standard helps organizations integrate security controls in the software through their software development cycle, by defining security frameworks & vulnerability management processes. This certification protects customer assets from potential cyber breaches & security threats while complying with the Application security standards. It addresses all aspects from determining information security requirements, to protecting information accessed by an application as well as preventing unauthorized use and/or actions of an application. Hence request you to please confirm if the proposed solution must be an industry standard solution from an OEM that is ISO 27034-1 certified? Hence requesting you to please update the cluase as "The proposed NMS software must have Centralized and Distributed deployment capability and to ensure the proposed software is secure, it should have ISO 27034 certification from a verification or certification agency which has global recognition."	No Change, Tender Condition Prevails.
56	VOL 04, Page 42,NMS	The software shall be compatible with Microsoft Windows and Linux operating systems.	Container based solutions requires least efforts for implementation, customization and maintainance due to pre integrated modules, dependencies like DB, load balancers are built-in and configured in advance. It is Cost effective since the required hardware and 3rd party components are bundled. Hence requesting you to please update the cluase as "The proposed NMS software shall be compatible with Microsoft Windows and Linux operating systems with built on modern container technologies, and have an options to deploy on classic mode non containerised as well as containerized mode."	No Change, Tender Condition Prevails.
57	VOL 04, Page 15, Helpdesk Services	b. Help desk services should act as a single point of contact, to solve day-to-day problems of end users.	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as Helpdesk is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS. This warrants an industry-standard solution. Hence requesting you to please update the cluase as "Help desk services should act as a single point of contact, to solve day-to-day problems of end users and help desk software must be an industry standard, enterprise grade solution and shall be in the present in Gartner's MQ reports for ITSM for last two years."	No Change, Tender Condition Prevails.

58	VOL 04, Page 15, Helpdesk Services	a. The SI has to maintain Dedicated Centralized Help Desk Service for end users, to solve the problems related to IT Infrastructure setup under the scope of this contract.	Multiple leading Service Management OEMs are listed under Pink Elephant certifications website. This is the most mature way to demonstrate that at least three top IT organizations and for selection of mature IT service management solution. Hence requesting you to please update the clause as " The SI has to maintain Dedicated Centralized Help Desk Service for end users, to solve the problems related to IT Infrastructure setup under the scope of this contract and the proposed Helpdesk tool must be ITIL Gold-level certified on at least 10+ processes and should be PINK ELEPHANT / Axelos Gold level certified on at least 10+ ITIL 2011 processes: Incident management, Problem Management, Change Management, Knowledge Management, Service Level Management, Service Asset and Configuration management, Service Catalogue and Request Fulfilment, etc. The certification copy to be submitted."	No Change, Tender Condition Prevails.
59	VOL 04, Page 15, Helpdesk Services	e. Help Desk's responsibility is to generate certain reports to track following:	NMS/Helpdesk, having all these components from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise. "The proposed Helpdesk and NMS solution should be an integrated, modular and scalable solution from single OEM (i.e. all Network Monitoring, Service Management tools should be from single OEM) to provide comprehensive fault management, performance management, traffic analysis and business service management, IT service desk\ help desk \trouble ticketing system & SLA monitoring functionality. The Help Desk's responsibility is to generate certain reports to track following:"	No Change, Tender Condition Prevails.
60	VOL 04, Page 33, External Firewall	The appliance should have at least 8 * (1G / 10G) ports and support 4 * 40 G ports from Day one. The Firewall should be loaded with 10G SR modules as mentioned in BoQ	Requesting you to modify the clause to "The appliance should have at least 8 * (1G / 10G) ports from Day one. The Firewall should be loaded with 10G SR modules as mentioned in BoQ" As 10 Gbps NGFW throughput asked in RFP there is no use of 40G interface port. So pls remove 40G support this will be over kill, and also it will increasing the overall budget of the project.	Amended. Please refer point no. 11 at Annexure I.
61	VOL 04, Page 35, Internal Firewall	Should support more than 15,000 (excluding custom signatures) IPS signatures or more	Requesting you to modify the clause to "Should support more than 10,000 (excluding custom signatures) IPS signatures or more". Pls revised IPS signature to 10,000 so all leader OEM's can participate.	Amended. Please refer point no. 12 at Annexure I.
62	VOL 04, Page 37, Internal Firewall	Should support Open based Application ID for access to community resources and ability to easily customize security to address new and specific threats and applications quickly	Requesting you to modify the clause to "Should support custom application signature and ability to easily customize security to address new and specific threats and applications quickly". pls revised "Open based Application ID" this is specific to single OEM.	No Change, Bidder is advised to propose equivalent mechanism to address this point.
63	VOL 04, Page 29, L3 Distribution Switch	Should have support for advanced routing support including OSPF, BGP, policy based routing & Multicast routing is supported, including PIM dense mode (PIMDM), PIM sparse-dense mode, and source-specific multicast (SSM), PBR, BGPv4 and OSPFv3 etc	Request to please modify as "Should have support for advanced routing support including OSPF, BGP, policy based routing & Multicast routing is supported, including PIM dense mode (PIMDM), PIM sparse-dense mode, and source-specific multicast (SSM) from day-1". This will ensure to further investment and switch is ready with all the functionality to use.	No Change, Tender Condition Prevails.
64	VOL 04, Page 30, L3 Distribution Switch	The switch should be common criteria EAL2 or NDPP certified from day 1	Request to please change this as "Request to modify as "Switch family or Switch OS should be EAL2 / NDPP certified from day-1". OEMs usually go for such certifications for their switch family or switch OS depending upon their own switch hardware. Security lies with OS only which is more relevant.	No Change, Tender Condition Prevails.
65	VOL 04, Page 31, L3 Distribution Switch	Switch should have UL 60950, CSA, CE mark, IPv6 Gold Logo certified	Request to please modify as "Switch should have UL 60950, CSA, CE mark, IPv6 ready Logo certified", for wider OEM participation.	No Change, Tender Condition Prevails.
66	VOL 04, Page 31, 48 Port Access Switch - Non-POE	Switch should have UL 60950, CSA, CE mark, IPv6 Gold Logo certified	Request to please modify as "Switch should have UL 60950, CSA, CE mark, IPv6 ready Logo certified", for wider OEM participation.	No Change, Tender Condition Prevails.
67	VOL 04, Page 38, Indoor Access points	Access Point radio should be minimum 3x3 MIMO with 2 spatial streams on 5ghz.	Request to please change as "Access Point radio should be minimum 3x3 MIMO with 3 spatial streams on 5ghz". This is very relevant when RFP asked for 3x3 MIMO, also performance will be impacted.	No Change, Tender Condition Prevails.
68	VOL 04, Page 32, Server farm Switch	Should have switching backplane of 2.5 Tbps.	Request to please modify this and make it as per ports requirements, which is coming 1440Gbps(1.4Tbps). Request to please change this as "Should have switching backplane of 1.4 Tbps".	No Change, Tender Condition Prevails.
69	VOL 04, Page 33, Server farm Switch	Support management using CLI, GUI, using Web interface. Additionally, management can also be done using NMS.	Request to please change as "Support management using CLI. Additionally, management can also be done using NMS". This is high end switch and for Data Centre use for secure server connectivity, where GUI based access is not recommended. Request to please modify this clause as "Support management using CLI. Additionally management can also be done using NMS".	Amended. Please refer point no. 5 at Annexure I.

70	VOL 04, Page 33, Server farm Switch	Hardware of the switch should be common criteria EAL2 /EAL3 /NDPP certified.	Request to please change this as "Request to modify as "Switch family or Switch OS should be EAL2 / NDPP certified from day-1". OEMs usually go for such certifications for their switch family or switch OS depending upon their own switch hardware. Security lies with OS only which is more relevant.	No Change, Tender Condition Prevails.
71	VOL 04, Page 44, Link load balancer	Should support Outbound load balancing algorithms like round robin, Weighted round robin, shortest response, target proximity and dynamic detect.	Request to change clause as "Should support Outbound load balancing algorithms like round robin, Weighted round robin, shortest response, Topology based, target proximity and dynamically detecting the link performance"	No Change, Tender Condition Prevails.
72	VOL 04, Page 44, Link load balancer	Should support inbound load balancing algorithms like round robin, Weighted round robin, target proximity & dynamic detect.	Request to change clause as "Should support inbound load balancing algorithms link round robin, Weighted round robin, shortest response, topology based, target proximity and dynamically detecting the link performance"	No Change, Tender Condition Prevails.
73	VOL 04, Page 44, Link load balancer	Must support A/AAAA Records for inbound load balancing	Request to change clause as "Must support A,AAAA, CNAME, PTR, TXT and Authoritative and recursive DNS for all DNS Records for inbound load balancing"	No Change, Tender Condition Prevails.
74	VOL 04, Page 44, Link load balancer	Should support Smart DNS like the LLB DNS can be used with SmartDNS for more advanced DNS resolution, such as region, proximity support.	Request to change clause as "Should support Secure DNS like the LLB DNS can be used with Secure DNS for more advanced DNS resolution, such as region, proximity support."	No Change, Tender Condition Prevails.
75	VOL 04, Page 42, NMS	The proposed Network Management Software shall be a standalone, comprehensive management platform that delivers integrated, modular management capabilities across fault, configuration, accounting, performance, and security (FCAPS) needs.	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports generated from NMS. This warrants an industry-standard solution. Hence requesting you to please update the clause "The proposed Network Management Software shall be a standalone, comprehensive management platform that delivers integrated, modular management capabilities across fault, configuration, accounting, performance, and security (FCAPS) needs and must be an industry standard, enterprise grade solution and shall be in the present in Gartner's MQ reports for NPMD for last two years (2018 & 2019)."	No Change, Tender Condition Prevails.
76	VOL 04, Page 42, NMS	The software shall come with an initial license for 200 managed devices. Additional node licenses shall be available to extend the node limit.	To ensure that the proposed NMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels. Hence requesting you to please update the clause as " The proposed NMS software shall come with an initial license for 200 managed devices. Additional node licenses shall be available to extend the node limit. It MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 5,000+ network nodes in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding."	No Change, Tender Condition Prevails.
77	VOL 04, Page 43, NMS	Centralized and Distributed deployment capability.	ISO 27034-1 standard helps organizations integrate security controls in the software through their software development cycle, by defining security frameworks & vulnerability management processes. This certification protects customer assets from potential cyber breaches & security threats while complying with the Application security standards. It addresses all aspects from determining information security requirements, to protecting information accessed by an application as well as preventing unauthorized use and/or actions of an application. Hence request you to please confirm if the proposed solution must be an industry standard solution from an OEM that is ISO 27034-1 certified? Hence requesting you to please update the clause as "The proposed NMS software must have Centralized and Distributed deployment capability and to ensure the proposed software is secure, it should have ISO 27034 certification from a verification or certification agency which has global recognition."	No Change, Tender Condition Prevails.
78	VOL 04, Page 42, NMS	The software shall be compatible with Microsoft Windows and Linux operating systems.	Container based solutions requires least efforts for implementation, customization and maintainance due to pre integrated modules, dependencies like DB, load balancers are built-in and configured in advance. It is Cost effective since the required hardware and 3rd party components are bundled. Hence requesting you to please update the clause as "The proposed NMS software shall be compatible with Microsoft Windows and Linux operating systems with built on modern container technologies, and have an options to deploy on classic mode non containerised as well as containerized mode."	No Change, Tender Condition Prevails.

79	VOL 04, Technical Specification, Modular Core Chassis Switch, Page 27, SN 7	Platform should integrated with SDN platform from day 1, SDN controller can be added as and when required	"Platform should integrated with SDN platform from day 1" We request for clarification that Is there any existing SDN Controller ? or do we need to provide a SDN controller with the solution ? or the proposed devise need to support SDN for future integration.	The device proposed should be capable of getting integrated with SDN Controller if needed in future without change in the hardware. Any required licenses along with the SDN controller hardware to be added during future integration at additional cost during that time.
80	VOL 04, List of Approved Makes, Page no 51	Preferred OEM	Please specified , in the technical specification you have asked Gartner Leader and Challenger but here in the "List of Approved" List limited OEMs are there. Request you please remove so that all the Gartner Leader and Challenger OEMs can participate. Request for amendment and approved equivalent OEMs like HP/Cisco / Ruckus / Allied Telesis / Netgear etc. It will help to get maximum participation from different OEM's & Vendors which can help your good office to get best and lowest commercials which can reduce the overall cost of the tender.	No Change, Tender Condition Prevails.
81	VOL 04, 4. Detailed Scope of Work, Broadly, the activities to be covered shall include, page no. 8	Minimum 3-5 Engineers or more as per the requirement should be deputed at site during the implementation period.	Request for amendment that it should be either remove or fix the engineer numbers due to the commercial impacts	Amended. Please refer point no. 13 at Annexure I.
82	VOL 04, 4. Detailed Scope of Work, Broadly, the activities to be covered shall include, page no. 8	SI should provide the internet connectivity at site during the implementation period of the project. Adequate speed of the internet should be (minimum 50 mbps or higher bandwidth) available as per the requirements of the project.	Request to clarify the purpose of providing the internet connectivity. Request for amendment, ISP facility should be provided by HSCC.	No Change, Tender Condition Prevails. Internet Connectivity is required during implementation period.
83	VOL 04, VI. Guarantee/Warranty and Onsite Maintenance Support, Terms & Conditions, page no.: 9	The SI shall warrant that the Goods supplied under the Contract are new, non-refurbished, unused and recently manufactured; shall not be nearing end of sale / end of support; and shall be supported by the SI and respective OEM along with service and spares to ensure its efficient and effective onsite maintenance for the entire duration of the contract. The manufacturer should also submit guarantee/warranty that it will keep the client informed of any update of the equipment over a period of 3 (three) years from the date of acceptance.	Request you to change the clause as The SI and manufacturer shall warrant that the Goods supplied under the Contract are new, non-refurbished, unused and recently manufactured; shall not be nearing end of sale / end of support; and shall be supported by the SI and respective OEM along with service and spares to ensure its efficient and effective onsite maintenance for the entire duration of the contract. The manufacturer should also submit guarantee/warranty that it will keep the client informed of any up-date of the equipment over a period of 3 (three) years from the date of acceptance	No Change, Tender Condition Prevails.
84	VOL 04, VI. Guarantee/Warranty and Onsite Maintenance Support, Terms & Conditions, page no.: 9	The SI should ensure that the manufacturer will supply regularly any items or spare parts for satisfactory operation of the equipment during the period of Guarantee/warranty and maintenance period.	Request you to please clarify the Spares inventory.	Adequate stock (minimum 10% of the installed) of active networking components including access switches, wireless access points & L3 distribution switch etc. to ensure immediate replacement in case of failures & to fulfill the SLAs.
85	VOL V_BOQ, Page 5, PART-A S.NO -18	Agency also to be made all the necessary arrangements (Cabling and other accessories) for the following: (a) Providing UPS supply to all the computers, printers, network switches, servers and other IT equipments as per the requirement & complete in all respect. (b) Necessary arrangement for proper earthing of UPS. (c) Arrangement of UPS Panels, DB etc. if the same is not available at site.	Power Cabling from UPS to User Desk/Printer Desk/Racks are in scope of bidder?	No Change, Tender Condition Prevails. The bidder should make arrangements for providing output of UPS power supply to Electrical Panels already installed at site. Also, all arrangements should be made for output of UPS power supply to Networking Racks & Server Room Equipment.

86	VOL V_BOQ, Page 5, PART-A S.NO -18	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 5 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer	As per Bid Document Support and Maintenance are required for 3 Year ,which contradict said statement kindly clarify	Amended. Please refer to point no. 14 at Annexure I.
87	VOL V_BOQ, Page 5, PART-A S.NO -19	Agency also to be made all the necessary arrangements(Cablings and other accessories) for the following: (a) Providing UPS supply to all the computers, printers, network switches, servers and other IT equipments as per the requirement & complete in all respect. (b) Necessary arrangement for proper earthing of UPS. (c) Arrangement of UPS Panels, DB etc. if the same is not available at site.	Power Cabling from UPS to User Desk/Printer Desk/Racks are in scope of bidder?	No Change, Tender Condition Prevails. The bidder should make arrangements for providing output of UPS power supply to Electrical Panels already installed at site. Also, all arrangements should be made for output of UPS power supply to Networking Racks & Server Room Equipment.
88	VOL V_BOQ, Page 5, PART-A S.NO -19	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 5 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer	As per Bid Document Support and Maintenance are required for 3 Year ,which contradict said statement kindly clarify	Amended. Please refer to point no. 15 at Annexure I.
89	VOL V_BOQ, Page 6, PART-B S.NO -1	Man month charges for providing one no. Network Support Engineers for providing maintenance support for network infrastructure and Computer Hardware. Engineer should have 1-5 years experience in the relevant area (BE/B-Tech/MCA or equivalent). (Total of 3 numbers)	For Running NOC 24X7 ,at least 4+1(Backup for the time when employee will on planned/unplanned leaves) resource required ,kindly confirm	No Change, Tender Condition Prevails.
90	VOL V_BOQ, Part A, Bill of Quantity, Item number 9, Page 150	Supply, Installation, Configuring, Testing & Commissioning of Wireless Controller with support of up to 200 access points and redundancy with N+1 with all the accessories etc. as per the requirement & complete in all respect and satisfaction of the engineer and have 3 years OEM warranty	"Wireless Controller with support of up to 200 access points and redundancy with N+1 with all the accessories etc" Please confirm the Qty. of Wireless Controller. The definition says N+1 , if N= 2 then it should be 4 in total but in the BoQ it is 2. So Please confirm the total required Qty. of Wireless Controller	No Change, Please refer BOQ.
91	General clarification		Request you for clarification that at the time of execution the project who will provide the server, Storage and civil work and passive work like cables, power cable, HDPE pipe or it should be by HSCC or vendor need to add the cost.	The NMS Server is in the scope of this tender. Please refer point no. 5 at Page 20 of Volume IV. The passive work has already been completed at site.
92	General clarification	Electricity and Water availability	We request you to provide free of cost.	No Change, Tender Condition Prevails.
93	General clarification	Lockable Store Room	We request you to provide covered and lockable storage facility.	No Change, Tender Condition Prevails.
<p>Please note that this Amendment no. – I, shall form part of the tender and all other terms & conditions of the tender shall remain unchanged.</p> <p>Prospective bidders are advised to regularly scan through HSCC's e-tender portal http://www.tenderwizard.com/HSCC as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement/communication will not be made for this.</p> <p style="text-align: center;">Senior Chief General Manager-I, HSCC (I) Ltd. For & on Behalf of Director, IIT, Kharagpur</p>				

Indian Institute of Technology (IIT), Kharagpur**AMENDMENT NO. – I**

Name of Project: Tender for Development of IT Network Infrastructure (LAN & Wi-Fi System), Operation & Maintenance and Facility Management Services (3 years) for Super Specialty Block at IIT- Kharagpur Medical College & Hospital.

S. No.	Page, Clause	Tender Document Clause	Amended As
1	Volume 01, Page 13, Clause 2.9 (a) - i	Original Non-refundable Demand Draft of Rs.5,000/- as Tender Fee	Original Non-refundable Demand Draft of Rs.5,000/- as Tender Fee. Micro and small scale enterprises (MSEs) are exempted from Bid Document fee, The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being on MSE, failing which their tender will be liable to be ignored. The support document must be submitted offline in hard copy before the due date of submission.
2	Volume 01, Page 13, Clause 2.9(a) – ii - a	The Bidder shall enclose EMD with their Bid for an amount, as mentioned in Notice Inviting Bids.	The bidder shall enclose EMD with their Bid for an amount, as mentioned in Notice Inviting bids. The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as “to customers’ specification” etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
3	VOL 02, CLAUSE	Factory Inspections: The bidder will	The bidder will submit details of the tests

	37 Factory Inspections, page no. 26	submit details of the tests to be carried out by the bidder at factory site, on the proposed Hardware and system software will be submitted along with the requisite certification by the bidder within 30 days of the placement of order. The bidder shall conduct these tests and maintain detailed records of the results. The conduct and proper observance of the bidder's standard inspections and test procedures shall be the sole responsibility of the bidder. Client/HSCC shall be free to depute authorized representative/s to observe the bidder standard tests and procedures, indicated above, on the computer equipment earmarked for supply to Client/HSCC. All records of such tests shall be made available to Client/HSCC representative/s for scrutiny as and when required. The expenses on Client/HSCC representative/s for travel and stay will, however, be borne by bidder.	to be carried out by the bidder at factory site, on the proposed Hardware and system software will be submitted along with the requisite certification by the bidder within 30 days of the placement of order. The bidder shall conduct these tests and maintain detailed records of the results. The conduct and proper observance of the bidder's standard inspections and test procedures shall be the sole responsibility of the bidder.
4	VOL 04, Page 39, Indoor Access Points, Point No. 10	The access point should be capable of performing security scanning and serving clients on the same radio. It should be also capable of performing spectrum analysis and security scanning using same radio.	The access point should be capable of performing security scanning, spectrum analysis and serving clients.
5	VOL 04, Page 32, Server farm Switch Point No. 21	Support management using CLI, GUI, using Web interface. Additionally, management can also be done using NMS.	Support management using CLI/ GUI/using Web interface. Additionally, management can also be done using NMS.
6	VOL 04, Page 32, Server farm Switch Point No. 22	The OEM must feature in the Leaders/Challengers segment of the Gartner Magic Quadrant for Data Centre Enterprise Networking.	Switch OEM should be in the Gartner's Leaders & Challengers quadrant for Wired and Wireless LAN Access Infrastructure since last 3 years.
7	VOL 04, Page 35, External Firewall	Should support more than 15,000 (excluding custom signatures) IPS signatures or more	Should support more than 10,000 (excluding custom signatures) IPS signatures or more.
8	VOL 04, Page 27, 48 Port Access Switch non POE Point No. 3	Switch shall have minimum 128 Gbps of switching fabric and 130 Mbps of forwarding rate.	Switch shall have minimum 128 Gbps of switching fabric and 100 Mbps of forwarding rate.
9	VOL 04, Page 20, Sr. No. 7	SI shall provide onsite maintenance support for the complete hardware, software & cabling system of the proposed networking system for period of 3 years after handing over to the	SI shall provide onsite maintenance support for the complete hardware & software of the proposed networking system for period of 3 years after handing over to the Client.

		Client.	
10	VOL 04, Page 13, Sr. No. 3	I/O points, other Passive Components, NMS software and remaining devices.	NMS software and remaining devices.
11	VOL 04, Page 33, External Firewall	The appliance should have at least 8 * (1G / 10G) ports and support 4 * 40 G ports from Day one. The Firewall should be loaded with 10G SR modules as mentioned in BoQ.	The appliance should have at least 8 * (1G /10G) ports from Day one. The Firewall should be loaded with 10G SR modules as mentioned in BoQ.
12	VOL 04, Page 35, Internal Firewall	Should support more than 15,000 (excluding custom signatures) IPS signatures or more.	Should support more than 10,000 (excluding custom signatures) IPS signatures or more.
13	VOL 04, 4. Detailed Scope of Work, Broadly, the activities to be covered shall include, page no. 8	Minimum 3-5 Engineers or more or as per the requirement should be deputed at site during the implementation period.	Minimum 3 Engineers or more or as per the requirement should be deputed at site during the implementation period.
14	VOL V_BOQ, Page 5, PART-A S.NO -18	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 5 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer.	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 3 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer.
15	VOL V_BOQ, Page 5, PART-A S.NO -19	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 5 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer.	Supply, Installation, Testing, Commissioning of Rack mounted external battery bank of 12 volt SMF batteries for a total of 1 hour backup for ups on full resistive load with all the accessories etc. and 3 years OEM onsite warranty as per the requirement & complete in all respect and satisfaction of the engineer.
16	Volume I, Bid Submission & Opening Date and Time, EMD (BG) Validity	Last Date & time of bid submission: 01/07/2019 till 2:30 pm. Date & Time of Opening: 01/07/2019 at 3:00 pm.	Last Date & time of bid submission: 12/07/2019 till 2:30 pm. Date & Time of Opening: 12/07/2019 at 3:00 pm. The validity of Bid Security/EMD in form of Bank Guarantee will be considered from 01/07/2019 as per terms & conditions in the tender document.