Annexure I

S. No.	Section	Sub-Section	Point No./ Clause No.	Queries Related to	Clause Reference	Clarification required/Query	ERNET India's Reply
1	2	3.3	4.11	Firewall	Should Support SSL VPN	Support for SSL VPN is asked but kindly mention SSL users support needed. Request you to kindly add Should support 500 SSL VPN Usres from Day1	Clause may be read as : Should Support SSL VPN **with atleast 50 or higher SSL VPN users from Day 01**
2	2	3.3	3.4	Firewall	Should support upto3 Million Concurrent sessions and at least 1,00,000 sessions/connections per second	The connections per second should be inline with the concurrent session and NGFW throughput. Request you to kindly amend clause as under: Should support upto3 Million Concurrent sessions and at least 2,50,000 sessions/connections per second	**No Change**
3	2	3.3	2.1	Firewall	Firewall appliance must have 4 x 10GE SFP+ interfaces, 6 x 1GE SFP + interfaces &8 x 1GE RJ45 interfaces from day one. All these interfaces should be available simultaneously.	We understand 6x1GE SFP ports are needed whereas SFP+ is used seems to be typo error as SFP+ refers to 10G requirement. Request you to amend the clause Firewall appliance must have 4 x 10GE SFP+ interfaces, 6 x 1GE SFP interfaces & 8 x 1GE RJ45 interfaces from day one. All these interfaces should be available simultaneously.	Clause may be read as : Firewall appliance must have 4 x 10GE SFP+ interfaces, **6 x 1GE SFP interfaces** &8 x 1GE RJ45 interfaces from day one. All these interfaces should be available simultaneously.
4				Firewall	Additional Clause	NGFW should support DNS filtering and protection as well along with other URL Filtering and important features are not mentioned. Request you to kindly include the same. The NGFW must have DNS Sinkhole functionality from day one to block and redirect malicious request to custom defined web portal and rate web resource based on their DND rating	**No Change**
5				Firewall	Additional Clause	Firewall should support Virtual Firewall feature which is very basic feature and supported by all OEMs. Request you to include the same. The proposed solution should support Virtualization (Virtual Firewall, Security zones and VLAN) with minimum 10 Virtual Firewall license from day one. Must have freedom to configure NAT mode or Transparent mode based on per virtual context.	**No Change**
6				Firewall	Additional Clause	Firewall should support scanning and remove of malicious attachment . Request to add this clause NGFW should have functionality of Content Disarm and Reconstruction (CDR) to remove all active content from attachment in real-time before passing it to user.	**No Change**
7				Firewall	Additional Clause	SSL inspection is a vital network security capability for modern organizations since the overwhelming majority of web traffic is now encrypted, and cybersecurity analysts estimate more than 80% of malware may now hide in encrypted channels. Currently SSL inspection throughput is not considered and is very important parameter Request you to please amend the specs as below : "Proposed Firewall must have 4 Gbps or higher SSL Inspection throughput from day 1 "	**No Change**
8	5	7	a) and b)	Payment Terms	a) Payment equivalent to 70% of the invoice value shall be made by ERNET India after the completion of delivery, installation, integration, commissioning, and acceptance of all the ordered items. b) The balance 30% payment, after deducting all penalties (if any), would be released in three equal instalments on a yearly basis during the warranty period (3 years), upon successful completion of each warranty year. The yearly warranty amount will be released upon submission of a GST invoice, a satisfactory report regarding the services rendered during the year, and a quarterly Preventive Maintenance report, duly signed and stamped by ERNET India's concerned officer.	Proposed Change: Payment equivalent to 80% of the invoice value to be released after delivery of the product, and the remaining 20% upon successful installation, commissioning, and submission of the OEM 3-year warranty certificate. As the department has asked bidder for the 5% Performance Security/Bank Guarantee, this can be considered as coverage against any penalties, if applicable.	Clause may be read as : a) Payment equivalent to **85%** of the invoice value shall be made by ERNET India after the completion of delivery, installation, integration, commissioning, and acceptance of all the ordered items. b) The balance **15%** payment, after deducting all penalties (if any), would be released in three equal instalments on a yearly basis during the warranty period (3 years), upon successful completion of each warranty year. The yearly warranty amount will be released upon submission of a GST invoice, a satisfactory report regarding the services rendered during the year, and a quarterly Preventive Maintenance report, duly signed and stamped by ERNET India's concerned officer. **c.After successful installation, commissioning, integration & acceptance of the supplied equipment, and during the first year of warranty bidder will be having an option to claim Balance 15% payment (of warranty period) against the submission of Bank Guarantee. If this option is exercised by the bidder then the bidder would submit Bank Guarantee equivalent to the 15% total value of PO/contract, having validity; till completion of warranty period + Three (3) months of claim period. ERNET India can invoke the Bank Guarantee if bidder fails to serve the warranty satisfactorily. Even if bidder opt for this option then also bidder will be obliged to submit the satisfactory service of the warranty report on yearly basis and quarterly preventive maintenance reports; duly signed and stamped by ERNET India's concerned officer.**
9	2	1	ii)		All the components of the provided infrastructure/solution should not have any single point of failure including power, networking etc.	Single Point of Failure:· The bid specifies that there should be no single point of failure in the provided infrastructure/solution, including power and networking. However, you have requested one L3 and one L2 switch, which does not fulfil this requirement of redundancy. request you please clarify how this requirement will be mitigated with just a single L3 and single L2 switch.	Along with clause following may also be read: **"All equipment should have redundant power supply & Fan"**

10	1	3	1		Preference will be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the tender document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated	Preference to Make in India: 1. In the bid mentioned that preference will be given to Class 1 local suppliers, as defined in the Public Procurement (Preference to Make in India). Request you please clarify whether only Class 1 local suppliers are eligible to participate in the bid. 2. Additionally, can you explain the methodology for calculating the MII (Make in India) preference? Will it be calculated for the overall solution, or will it be done product by product.	1. Clause is self explanatory 2. As per Govt. of India MII guidelines amended time to time
11	2	1	iv		ERNET requires only one L2 and one L3 switch which will be integrated with existing infrastructure	Point iv: •The bid specifies that the bidder is responsible for integrating with the existing infrastructure, and the commissioning of the entire network/infrastructure at ERNET India HQ DC/LAB is in the bidder/OEM's scope. Request you please provide details of the existing infrastructure to help us understand the integration requirements?	Following is the existing infrastructure of ERNET India: 1. Router Cisco 4340 - 01No. 2. Router cisco 1941 Series-01 No. 3. L3 Switch - 3750 Switch Cisco-01 No. 4. L2 Switch Dlink- 03 No., 1 Juniper 5. ServerDell-02 HP Server-03
12	2	1	xiii		The bidder has to make necessary electrical wiring from the power source	Point xiii: •The bidder is required to handle the necessary electrical wiring from the power source. Request you please clarify if this only refers to the power and LAN cables required for the installation, or if additional electrical wiring is required.	**Electrical wiring may be required for extension of power to rack PDU**
13	2	1	xxi		The bidder shall provide comprehensive training and study material to the ERNET India Officials for day to day functioning and maintenance of supplied equipment (like System administration, resource and configuration management of hardware and software, storage allocation, backup management etc.).Training should be held at ERNET India HO office in Delhi without any	Point xxi: •The bidder is expected to provide comprehensive training to ERNET India officials on topics such as system administration, resource and configuration management, storage allocation, and backup management. Request you to please specify the number of days required for this training, and confirm whether it will be conducted online or offline.	1. Initially for 3 days 2. Training will be conducted offline at ERNET India premises.
14	2	3	iv	Server	Additional Clause for Server con	Requests for modifications/addition in the specification: 1.Server Specification The server should be able to start from the same state of firmware when it got locked in case of security breach. This feature ensures that it can restore and restart from the last known good state of firmware after a security breach or lock, which is often available in enterprise-grade servers. The server should have minimum 6no. S of PCI Gen5.0 slots. These slots supports the latest hardware like GPUs and network interface cards (NICs). The number of slots are not mentioned in the current specification, request you to please specify the 6no of PCI slots Gen5.0.	No Change
15	2	3.1	7		Switch should support DHCP snooping IPv4 / IPv6, IP source guard, IP source guard violation log, Dynamic ARP inspection or equivalent feature, IPv6 RA guard or equivalent feature, IGMP snooping/proxy/querier, VLAN stacking (QnQ) , MCLAG, QoS marking (IPv4/IPv6). should have single pane of management via NGFW or through separate management tool along with required	Please amend this clause as-"Switch should support DHCP snooping IPv4 / IPv6, IP source guard, IP source guard violation log, Dynamic ARP inspection or equivalent feature, IPv6 RA guard or equivalent feature, IGMP snooping/proxy/querier, VLAN stacking (QnQ) , MCLAG or equivalent , QoS marking (IPv4/IPv6). should have single pane of management via NGFW or Switch must have its own NMS or through separate management tool along with required hardware to manage the proposed Ethernet switches	MCLAG is a vender specific technology. Request to changes this to LACP for more generic	Clause may be read as: "Switch should support DHCP snooping IPv4 / IPv6, IP source guard, IP source guard violation log, Dynamic ARP inspection or equivalent feature, IGMP snooping/ proxy/querier, VLAN stacking (QnQ) , **MCLAG/LACP,** QoS marking (IPv4/IPv6). should have single pane of management via NGFW or through separate management tool along with required hardware to manage the proposed Ethernet switches"
16	2	3.1	16	L3 Switch	Switch should support Layer 3 Policy-based routing, OSPF (IPv4/IPv6), BFD for OSPF (IPv4/IPv6), VRRP (IPv4/IPv6), BGP (IPv4/IPv6)	Switch should support Layer 3 Policy-based routing, OSPF (IPv4/IPv6), BFD for OSPF or OSFP Hello (IPv4/IPv6), VRRP (IPv4/IPv6), BGP (IPv4/IPv6) |BDF for OSPF is protocol is a simple hello mechanism that detects failures in a network. Request to allow OSPF Hello	Clause may be read as **"Switch should support Layer 3 Policy-based routing, OSPF (IPv4/IPv6), VRRP (IPv4/IPv6), BGP (IPv4/IPv6)"**
17	2	3.1	23		Certifications - FCC/BSMI, CB,	Please change this clause as "Certifications- CE, FCC, IEC 60950 and RoHS". OR Certifications - FCC / BSMI / CB RoHS2 /RCM	Clause may be read as **Certifications : CE, FCC,CB and BSMI**

18	2	3.2	26	L2 Switch	Certifications - FCC/BSMI, CB,	Please change this clause as "Certifications- CE, FCC, IEC 60950 and RoHS". OR Certifications - FCC / BSMI / CB RoHS2 /RCM	Clause may be read as **Certifications : CE, FCC,CB and BSMI**
19				Firewall		The Bid which you have been uploaded on gem which is for 1000+ users spec, Despite you are looking for 100 user. So kindly find the attachment as well as share the link which is the accurate for 100 users..	No change
20				Server	The server should have minimum 6 nos. of PCI Gen 5.0 slots.	These slots can accommodate the latest hardware, including GPUs and network interface cards (NICs). The number of slots is not indicated in the present specification; please amend the six PCI slots of Gen5.0.	No Change
21					**Request for Additional Clause:** The server should be able to start from the same state of firmware when it got locked in case of security breach	This feature assures that it can recover and restart from the last known good state of firmware following a security breach or lock, and is commonly available in enterprise-grade servers.	No Change

Addendum in specification of Firewall, L3 Switch and L2 Switch		
Equipment	**Point no.**	**Modified Specifications**
L3 Switch	1	This specification may be read as "L3 Managed Switch should have minimum 48x GE RJ45 and 4x 10GE SFP+ **Ports fully populated with suitable SFP module from Day 01"**
L2 Switch	1	L2 switch should have minimum 48 x GE RJ45 ports and 10GE 4x SFP+ **Ports fully populated with suitable SFP module from Day 01** , PoE enabled
Firewall	2.1	Firewall appliance must have 4 x 10GE SFP+ interfaces, 6 x 1GE SFP interfaces &8 x 1GE RJ45 interfaces from day one. All these interfaces should be available simultaneously. **Ports fully populated with suitable SFP module from Day 01**