

Response of the queries submitted by bidders/OEMs

S No	Page No./ Section No.	Clause No.	Reference/ Subject	Bank's Response
1	3.31. Evaluation of Eligibility Criteria B1 Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems/ products are quoted or if the OEM is bidding directly Page No. 18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
2	3.31. Evaluation of Eligibility Criteria B1 Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems / products are quoted or if the OEM is bidding directly Page No. 18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
3	8.3 Server Load Balancer with WAF Page No. 107	2 d)	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
4	8.3 Server Load Balancer with WAF Page No. 108	6	The solution should provide Application performance monitoring through detailed analytics at a PER APPLICATION level.	As per RFP
5	8.3 Server Load Balancer with WAF Page No. 107		New Clause Request	Bidder is free to offer higher or better solution
6	Page no- 82 Section -7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications	Request to add the point	As per RFP
7	Page no- 83 Section -7. Annexure A: Hardware/Software Technical Compliance	7.3. Core Switch Sr.No -1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
8	83	7.3. Core Switch Sr.No -2	The switch should support minimum 2Tbps bandwidth	bidder is free to propose higher or better solution
9	83	7.3. Core Switch Sr.No -12	The Switch should support IPv4 DHCP Server serving IP addresses for multiple DHCP pools/scopes	Refer Corrigendum
10	83	7.3. Core Switch Sr.No -13	The switch should Support DHCP options	Refer Corrigendum
11	84	7.3. Core Switch Sr.No -29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
12	84	7.3. Core Switch Sr.No -33	Switch support MPLS segment routing.	Refer Corrigendum
13	84	7.3. Core Switch	Switch Should Support FCOE protocol	bidder is free to propose higher or better solution
14	Page no- 84 Section -7. Annexure A: Hardware/Software Technical Compliance	7.4. Access, Staging Switch Sr no - 1	Rack Mountable: Mountable in standard 19 inch rack. Switch should be supplied 24 port copper 10G and 2nos. 10G multimode fibre ports for uplink.	bidder is free to propose higher or better solution
15	86	7.4. Access, Staging Switch Sr no - 30	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
16	87	7.5. Management Switch	Request to add the point	As per RFP
17	94	7.9. SAN switch	Request to add the point	bidder is free to propose higher or better solution
18	94	7.9. SAN switch	Request to add the point	bidder is free to propose higher or better solution
19	94	7.9. SAN switch	Request to add the point	bidder is free to propose higher or better solution
20	94	7.9. SAN switch	Request to add the point	bidder is free to propose higher or better solution
21	94	7.9. SAN switch	Request to add the point	bidder is free to propose higher or better solution

22	121	9.1 SDWAN Sr no - 3	Request to clarify the point below for the highlighted bold feature:	Refer corrigendum
23	121	9.1 SDWAN Sr no - 5	Request to clarify the point below for the highlighted bold line:	Refer corrigendum
24	62	NA	Last mile Links	There should be ports on proposed CPE devices to connect with switches on Ethernet. WAN ports on each devices should be as per bidder's proposed solution.
25	10. Annexure D - Telecom Location	Location BW details	Clarification/Recommendation	Refer corrigendum
26	62	CPE Devices	h) The SDWAN centralised controller should be hosted within India, in HA mode and should be in different geo-seismic zones.	Refer corrigendum
27	62	CPE Devices	Request to add point	bidder is free to propose higher or better solution
28	Page no- 77 6.9. Minimum Bill of material for DC, DR and NDR Site:	AAA Solution	AAA Solution- Specification missing	Refer Corrigendum
29	Page no- 77 6.9. Minimum Bill of material for DC, DR and NDR Site:	AAA Solution	AAA Solution- Qty 1 in DC	Refer Corrigendum
30	na	Additional clause	Addition of 2 nos of Layer 2 Switches in DC & DR	Bidder can propose, if additional switches are required to meet their proposed solution
31	Page 112 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 7(b)	Repairing the registry	As per RFP
32	Page 112 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 12	solution shall provide option to limit/deny access to specific shared folders, block ports, and deny write access to specific folders on selected clients in case there is an outbreak	As per RFP
33	Page 112 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 14	Must provide Real-time lock down of client configuration – allow or prevent users from changing settings or unloading/uninstalling the software and provide tamper protection even if user or malware is running with admin privileges.	As per RFP
34	Page 113 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 17	Should have a feature that allows administrators to configure port blocking, block shared folder, deny writes to folders manually and ability to isolate it completely from the network except to the management server	As per RFP
35	Page 113 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 19	Should have the capability to assign a client the privilege to act as an update agent for rest of its peer endpoints for a location.	Refer corrigendum
36	Page 114 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 40	Solution should be agent based for managing all critical components for comprehensive security on endpoint (AV, Anti spyware, device control, Application control, desktop firewalls, desktop HIPS etc.)	Refer corrigendum
37	Page 114 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 44	The solution should potentially block the end point system from loading physical devices such as removable storage devices, Bluetooth, Wi-Fi, and other plug and play devices based on device classes and device definitions are used to define device rules	As per RFP
38	Page 114 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 47	It should be able to control the access of USB devices by using their vendor ID, product ID or serial number.	As per RFP
39	Page 114 8. Annexure B: Cyber Security Technical and Functional Compliance	8.5 Endpoint security Sr no - 49	It should support ability to restrict access to company approved devices, but also if necessary to permit exclusions to this requirement. Exception and/or exclusions can be designed to accommodate different devices or different groups of users	As per RFP
40	Page 119 8. Annexure B: Cyber Security Technical and Functional Compliance	8.8 Multi Factor Authentication Sr no - 1	Request to dilute this clause Service Infrastructure should reside in India	Refer Corrigendum
41	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 11	Concurrent Sessions – 8,000,000	As per RFP
42	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 21	The proposed firewall shall have on box Anti- Virus/Malware, Anti Spyware signatures and should have minimum signatures update window of 600 seconds.	Refer Corrigendum

43	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 11	The system should be able to support file sizes upto 100 mb and more	As per RFP
44	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 26	Number of VM's should be atleast 12	Refer Corrigendum
45	Page 106 8. Annexure B: Cyber Security Technical and Functional Compliance	Anti-APT Specifications Sr no - 28	The APT appliance should be able to process minimum of 280 files/hour or 2,00,000 files/month on the VM sandboxing	As per RFP
46	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 4	Memory - AS per Sizing table mentioned	Refer Corrigendum
47	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 7	DHH - AS per Sizing table mentioned	Refer Corrigendum
48	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 7	Server Management	As per RFP
49	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications	Request to add the point	As per RFP
50	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications	Clarification/Recommendation	bidder is free to propose higher or better solution
51	Page 23 3.31 Evaluation of Eligibility Criteria	B1, point 1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
52	Page 23 3.31 Evaluation of Eligibility Criteria	B1, point 2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
53	Page 25 3.31 Evaluation of Eligibility Criteria	B1	If bidder (partner of OEM) is not able to fulfill its obligation to support the product during the contract period, OEM will have to ensure support as per contract. An undertaking from the OEM to this effect must be submitted.	As per RFP
54	Page 25 3.31 Evaluation of Eligibility Criteria	B1	OEM must ensure that the Servers to be supplied will not be End of Sale in next 3 years minimum (from RFP date) and End of Support in next 7 years from End of Sale.	Refer corrigendum
55	101/NGFW	24	This should be a cloud base unknown malware analysis service with guaranteed protection signature delivery	Refer corrigendum
56	103/NGFW	36	The proposed firewall must support the following routing protocols: ' - Static ' - OSPFv2 and v3 with graceful restart ' - BGP v4 with graceful restart ' - Policy-based forwarding ' - PIM-SM	bidder is free to propose higher or better solution
57	106/8.2Internal Firewall	6	New clause "new session and current session are not mention in specification.	bidder is free to propose higher or better solution
58	106/8.2Internal Firewall	18	Allows secure deployment of next-generation IPv6 networks, as well as hybrid environments that require simultaneous, dual stack, support of IPv4 and IPv6	bidder is free to propose higher or better solution
59	121/9.1 SDWAN		New Clause	bidder is free to propose higher or better solution
60	121/9.1 SDWAN		New Clause	bidder is free to propose higher or better solution
61	121/9.1 SDWAN		New Clause	bidder is free to propose higher or better solution
62	Page 19, 3.21. Consortium	3.21. Consortium	Consortium is not allowed	As per RFP
63	Page 22, 3.31. Evaluation of Eligibility Criteria	A General Point 2	The bidder should have experience of providing Data Center colocation services including IT Infrastructure (i.e. Servers, SAN storage, Network equipment's etc.) setup in India for last five years as on the date of the RFP issuance.	As per RFP

64	Page 24, 3.31. Evaluation of Eligibility Criteria	C. Experience & Support Infrastructure Point 1	The bidder must have provided Data Centre colocation facility to at least Ten (10) companies at any of their colocation sites in India. (Out of which Two credential should be from Commercial Banks / Financial Institutions/ Government / PSU Organizations in India who have co-hosted their Data Centre)	Refer corrigendum
65	Page 24, 3.31. Evaluation of Eligibility Criteria	C. Experience & Support Infrastructure Point 2	Bidder / OEM to have adequate stock of spares of all items supplied and should be able to replace the faulty hardware within 4 hours from the time of incident reporting.	Refer corrigendum
66	Page 25, 3.31. Evaluation of Eligibility Criteria	D Others Point 5	The bidder must be the owner of the proposed DC and DR or in case of leased premises (proposed), an unexpired lease period of 10 years should remain as on the due date or Tender submission. No Partnership / Consortium bidding is allowed	As per RFP
67	Page 25, 3.31. Evaluation of Eligibility Criteria	D Others Point 6	The bidder should have a ready to move in, up and running proposed data center, DR and NDR	As per RFP
68	Page 26, 3.31. Evaluation of Eligibility Criteria	D Others Point 8	The bidder must have on its payrolls at least 50 technically qualified professionals (BE/B.Tech/MCA or equivalent) in the ICT domains i.e. Cyber security, networking, system software, system integration, storage etc. who have prior experience in providing the Data Center Infrastructure and maintenance services as on date of release of this RFP.	Refer Corrigendum
69	Page 26, 3.31. Evaluation of Eligibility Criteria	D Others Point 10	Bidder should have its own NOC(Network Operations Center) in India to Monitor/Manage the DC IT Infrastructure	As per RFP
70	Page 26, 3.31. Evaluation of Eligibility Criteria	D Others Point 11	Bidder should have received following certification ISO 9001:2015. ISO/ IEC 20000:2011 (or later) ISO 27001 (or later) or 'BS7799 - 3' PCI-DSS	Refer corrigendum
71	Page 48 4.4. Payment Schedule	Payment Schedule	Payments will be released only on satisfactory acceptance of the deliverables for each Task as per the following schedule Delivery of all ICT infrastructure components (Hardware's + Software's for Phase-1) 40% payment of total CAPEX cost for Hardware's + Software's under Phase-I. 30% payment of CAPEX cost shall be made after Installation, configuration, commissioning of components covered under Phase-I and handover it to CBS application provider. Remaining 25% of CAPEX on Golive	As per RFP
72	4.6. Service Level Agreements*	Service Level Agreements*	Total Service availability of the ICT Setup (Complete HA uptime) 99.90%	As per RFP
73	New Clause		Overall Penalty Capping	As per RFP
74	New Clause		Limitation of Liability	As per RFP
75	Page 44 4.1. Stipulated Time Schedule	Point 44	Delivery of all ICT infrastructure components (all requisite Hardware+ Software) for all sites as per Phase -I (refer SOW Point -6.1) T + 60 Days	As per RFP
76	92/7.6	7	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system	Refer corrigendum
77	93/7.6	7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer corrigendum
78	98/7.9	3	Switch SFP's should support the 4/8/16/32 Gbps of host connection.	Refer corrigendum
79	Pg .18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
80	pg .18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
81	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot Pg: 106	1	Fixed architecture	As per RFP

82	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	8	Threat Prevention throughput should be 7 Gbps measured on Mix Traffic/ Enterprise Mix traffic	As per RFP
83	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	11	Concurrent Sessions – 8,000,000	As per RFP
84	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	21	The proposed firewall shall have on box Anti- Virus/Malware, Anti Spyware signatures and should have minimum signatures update window of 600 seconds.	Refer corrigendum
85	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	24	This should be a cloud base unknown malware analysis service with guaranteed protection signature delivery	Refer corrigendum
86	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	34	Should support full-path categorization of URLs only to block the malicious malware path not the full domain or website	As per RFP
87	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot	36	Should support URL or URL category base protection for user cooperate credential submission protection from phishing attack with malicious URL path	As per RFP
88	Anti-APT Specifications	25	Minimum number of Interfaces - 4x GE & 4 x GE SFP	As per RFP, SFP ports are required to connect with Proposed switches
89	Anti-APT Specifications	26	Number of VM's should be atleast 12	Refer Corrigendum
90	Anti-APT Specifications	28	The APT appliance should be able to process minimum of 280 files/hour or 2,00,000 files/month on the VM sandboxing	As per RFP
91	Primary Storage Section 7.6 Storage Architecture	2	Proposed storage must be a All Flash Array unified storage system supporting both Scale- up and Scale-out technology. Designed to take advantage of the Flash/SSD for high performance, reliability, energy efficiency and consistent performance.	As per RFP
92	Primary Storage Section 7.6 Storage Controller	3	Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum
93	Primary Storage Section 7.6 Protocols Supported	4	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the	Refer Corrigendum
94	Primary Storage Section 7.6 Storage Media	5	Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB, 15.3TB and 30.6TB SSD drives.	Refer Corrigendum
95	Primary Storage Section 7.6 Scalability	8	Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
96	Primary Storage Section 7.6 High Availability	9	The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. if the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
97	Primary Storage Section 7.6 Backend Ports	11	Backend ports should be minimum 4 x 12Gbps SAS Ports	As per RFP
98	Primary Storage Section 7.6 Disaster Recovery	16	Proposed solution should support 3 way DR and required licenses have to be supplied	As per RFP
99	Primary Storage Section 7.6 Encryption	18	Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
100	Primary Storage Section 7.6 Wan Optimization	19	Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication,compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	Refer corrigendum
101	Primary Storage Section 7.6 Storage License	22	Proposed array should include license for Sync and Async Replication, Thin provisioning, Snapshots, Clones. Also should include application aware backup for Oracle, SQL, SAP, Exchange, SharePoint, VMware, Hyper-V etc. All the required or necessary licenses must be perpetual and provided for the usable capacity of the storage including license for management module.	Refer corrigendum
102	7.7. Secondary Storage Storage Controller	2	The Storage system must have at least two controllers running in dual active (active-active) mode with automatic failover to each other in case if one controller fails	As per RFP

103	7.7. Secondary Storage Cache Required	3	The system should have minimum 64 GB cache memory across the two controllers with an ability to protect data on cache if there is a controller failure or power outage. The cache on the storage should have 72hrs or more battery backup (OR) should have de-staging capability to either flash/disk.	As per RFP
104	7.7. Secondary Storage Drive Support	4	The proposed system should not exceed the disk size of 4TB per disk and must support intermixing of SSD , SAS and SATA drives to meet the capacity and performance requirements of the applications.	Refer corrigendum
105	7.7. Secondary Storage Storage Capacity	7	80 TB usable capacity should be configured with NL-SAS/SATA drives on RAID 6. The storage should provision with at least 2 host spares. Storage should be scalable upto 200TB usable capacity using NL-SAS/SATA drives.	As per RFP
106	7.7. Secondary Storage Front End and Backend Capacity	9	The proposed storage system should have minimum, 2 numbers of 12 Gbps backend SAS ports, and 4 x 16Gbps FC and 4x10Gb Ethernet Ports	As per RFP
107	7.7. Secondary Storage Security		Suggestion	As per RFP
108	7.2. Rack Server Specifications Security	20	a) The server should provide cryptographic firmware updates b) Server should provide Anti-counterfeit and hardware policy based security c) The server should provide Hardware root of trust	Refer Corrigendum
109	7.2. Rack Server Specifications Suggestion	18	Suggestion	As per RFP
110	7.8 Tape Library Architecture & Consumables	1	Architecture & Consumables: The Tape Library Shall be offered with Minimum of Two LTO-8 FC tape drive and minimum of 25 slots along with 10 LTO8 DATA & 2 Cleaning Cartridges with Redundant Power Supply.	As per RFP
111	7.8 Tape Library Data Transfer Rate	2	Data Transfer Rate: Offered LTO-8 drive shall support 300MB/sec in Native mode.	As per RFP
112	7.8 Tape Library Future Scalability	3	Future Scalability: Tape Library shall be scalable to FOUR number of LTO-8 drives either in the same frame or by stacking of Expansion modules & Drives	As per RFP
113	7.8 Tape Library Encryption Support	4	Encryption Support: The offered tape library must support encryption and the encrypted keys should be managed by the ISV or the Tape library i.e. to keep the keys safe and secure, The Encryption keys management must be with Industry Standard methods either AME (Application managed) or LME (Library Managed).	As per RFP
114	7.8 Tape Library Other Features	8	Other Features: 4) Tape library shall support Barcode reader Min. 3 configurable Mail slots	As per RFP
115	83 7.3	1	7.3. Core Switch	Refer corrigendum
116	84 7.3	20	7.3. Core Switch	As per RFP
117	84 7.3	31	7.3. Core Switch	Refer corrigendum
118	84 7.3	32	7.3. Core Switch	As per RFP
119	84 7.3	33	7.3. Core Switch	As per RFP
120	84 7.4	1	7.4. Access, Staging Switch	As per RFP
121	86 7.4	32	7.4. Access, Staging Switch	Refer Corrigendum
122	86 7.4	33	7.4. Access, Staging Switch	As per RFP
123	23 B1 OEM PQ	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
124	19	3.21	Consortium is not allowed.	As per RFP
125	23	Sl.No. 1 of B1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
126	23	Sl.No. 2 of B1	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
127	23	Sl. No. 1 of B2	Must have registered a turnover of 200 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
128	23	Sl. No. 2 of B2	Must be net profit making entity (from Indian operations only) continuously for the last three years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum

129	35	3.34 Final Bid Evaluation	The evaluation of the tender is based on QCBS (Quality and Cost Based Selection). The Combined Final Score contains 70% weightage for technical evaluation and 30% weightage for commercial evaluation.	As per RFP
130	48	Sl. No. 1 of 4.4	5% payment of CAPEX cost for Hardware's + Software's for infra under Phase-I will be paid as mobilization advance.	As per RFP
131	48	Sl.No. 2 of 4.4	40% payment of total CAPEX cost for Hardware's + Software's under Phase-I.	As per RFP
132	49	Sl. No.6 of 4.4	Remaining 25% of CAPEX.	As per RFP
133	7	1.1	Last date of receiving written request for clarifications before the pre-bid meeting	As per RFP
134	Page No. 73	Application Sizing requirement		All physical cores
135	Page No. 73	6.8.Application sizing requirements	Modules-physical Core	Refer corrigendum
136	Page No. 77	6.9.Minimum Bill of material for DC, DR and NDR Site:	NDR Qty	Please refer table 6.9. Minimum Bill of material for DC, DR and NDR Site
137	Page No 65	Important Points for sizing considerations and solution	Oracle database licenses for number of cores mentioned in above table shall be provided by Nainital Bank Ltd. Oracle Database installation, configuration, performance tuning and operations of databases shall be done by the bidder during contract period. If any license like Oracle, SQL required for bidder's proposed solution that should be provided by the bidder as part of their solution.	Yes, for CBS application bank shall provide database licenses
138	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Primary Storage - Unified Storage with SSD 20 TB Usable Capacity	Refer corrigendum
139	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Secondary Storage - Storage 80TB Usable for data backup	Secondary storage has been sized 50TB for backup and 30TB for log archival. If this goes beyond 80TB then bank shall buy required capacity through a change request.
140	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Red Hat Enterprise Linux Server, Unlimited VMs - Latest Version	Refer corrigendum
141	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Red Hat Enterprise Linux Server with High-Availability, Upto 2 VM's -Latest Version	Refer corrigendum
142	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Microsoft Windows Operating System 2-Core Std Licenses for Server Type - 4	Refer corrigendum
143	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Microsoft Windows Operating System 2 Core Std Licenses for Server Type - 6	Refer corrigendum
144	Page No 76	Minimum Bill of material for DC, DR and NDR Site:	Microsoft Windows Operating System 2 Core Std Licenses for Server Type - 4	Refer corrigendum
145	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
146	Page No. 22 Point 12/ 3.31. Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
147	Page No. 116 Point no 64/ 8.5 Endpoint Security	Endpoint Security	Solution should provide the capability to log administrative activities in the Management console. Administrative activities that are logged in the Management console include, changes to policies, deployment of policies, agent override activities, agent termination, and agent uninstall key generation	as per RFP
148	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	as per RFP
149	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	as per RFP
150	Page No. 111 Point 5/ 8.4 HIPS	HIPS	Verify success or failure of an server	Refer corrigendum
151	Page No. 111 Point 8/ 8.4 HIPS	HIPS	Well suited for encrypted and switched environments	Refer corrigendum
152	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
153	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
154	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
155	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
156	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
157	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	as per RFP
158	Page No. 22 Point 12/ 3.31. Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
159	as per RFP Page 96 (7.11 Backup Software)	1	Backup software must be present as Leaders in Gartner's Magic Quadrant for backup software for at least 3 years in last 5 years.	Refer corrigendum

160	as per RFP Page 97 (7.11 Backup software)	22	It should have full support for backing up virtual servers (image level) on various hypervisors like Hyper - V, ESXi, RHEV, OVM, Acropolis, Citrix, Fusion.	As per RFP
161	as per RFP Page 98 (7.11 Backup software)	29	Should support software based de-duplication to support any storage system, cloud repository and object storage as de-duplicated disk target. Based on policy backup software should be able to move data to a tape library automatically. The proposed backup solution should support snapshot based backup from various vendors such as Hyperflex, HP 3PAR, EVA, Fujitsu Eternus, Oracle ZFS, Infinidat, Solidfire, Huawei, Tintri, etc.	Refer corrigendum
162	as per RFP Page 98 (7.11 Backup software)	33	It should support the following algorithms and provide better security in deployment across sites - BLOWFISH, GOST, Serpent, AES, Twofish, 3-DES.	Refer corrigendum
163	as per RFP Page 59 (ITSM Software)	i)	Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant.	Refer corrigendum
164	as per RFP (ITSM Software)	Generic Point	Technical Specifications missing for ITSM software	Should be proposed as per bidder solution
165	as per RFP Page 58 (b - Phase 2 - Log Storage)	b - IV	All the system logs should be properly stored for the period of 6 months & archived for future analysis with retention of 10 years. These Log Sources should be enabled for syncing at SOC Location of THE NAINITAL BANK LTD as per Bank guidelines.	Refer Corrigendum
166	as per RFP Page 58 (b - Phase 2 - Log Storage)	Generic Point	Technical Specifications missing for Log Management solution	Log management software is already there with Bank
167	as per RFP Page 59 (Patch Management)	M	Bank has a requirement of 1500 end users desktops/laptops and bidder has to provide Anti-virus and patch management solution with maintenance for the same alongwith required infrastructure/Virtual Machine/Operating system etc.	Refer corrigendum
168	as per RFP Page 119 (8.7 VAPT service)	Generic Point	The technical specifications does not talk about whether VAPT service is limited upto Network only or is it required for VAPT of both network and applications.	As per RFP
169	as per RFP Page 119 (8.7 VAPT service)	Generic Point	Please clarify, source code scanning is also required for application VAPT ?	As per RFP
170	as per RFP Page 120 (8.9 PIM)	5	Solution should support agentless web based & light weight architecture	As per RFP
171	as per RFP Page 121 (8.9 PIM)	19	S.M.A.R.T. Audit Trails for user activity tracking	Refer corrigendum
172	as per RFP Page 161, (Table B -BOQ-DC-DR OPEX)	10	Privileged Identity Management, Quantity of PIM licenses for DC mentioned as 20.	Refer corrigendum
173	as per RFP Page 17-18 (Eligibility Criterion)	B1 - 1	Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems / products are quoted or if the OEM is bidding directly Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
174	as per RFP Page 22 (Eligibility Criterion)	12	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate	Refer Corrigendum
175	88	Core Switch , Point - 2	The switch should support minimum 2Tbps bandwidth	As per RFP
176	90	Access, Staging Switch , Point- 3	The switch should support minimum 1Tbps bandwidth	As per RFP
177	91	Management Switch , point-3	The switch should support minimum 1Tbps bandwidth	As per RFP
178	124	Multi Factor Authentication , Point-5	Service should provide multiple form factors for authentication Mobile token, desktop/laptop token, hard token, Grid based token	As per RFP
179	97	13	Backup Software Specification	As per RFP
180	72	27	Minimum bill of material required for DC, DR & NDR	Bidder has to provide the license as per OEM policy and their solution it should be factored for minimum 20TB front end capacity of primary storage or number of sockets in servers proposed by bidder in their solution.
181	105	19	VM Based Replication	As per RFP
182	99	7.12 Virtualisation Software	Live Virtual Machine migration between different generations of CPUs in the same cluster and without the need for shared storage option	As per RFP
183	104	5	Live Migration	Refer corrigendum

184	92/7.6	7	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system	Refer corrigendum
185	93/7.6	7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer corrigendum
186	98/7.9	3	Switch SFP's should support the 4/8/16/32 Gbps of host connection.	Refer corrigendum
187	18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
188	18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
189	86	16	OSPF v2, OSPFv3	As Per RFP
190	5	5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer corrigendum
191	7.11. Backup Software Clause No. 2	101	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs and Mobile devices like Laptops / Tabs / Phone.	As Per RFP
192	7.11. Backup Software Clause No. 5	101	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs. Branches and end point backup is not in scope.	As Per RFP
193	7.11. Backup Software Clause No. 7	101	For immediate recovery Bare metal recovery option should be considered for servers & desktops.	As Per RFP
194	7.11. Backup Software Clause No. 9	101	The proposed solution should have ability to protect all mount paths associated with disk libraries configured from a Backup/Media Server against Ransomware attacks.	As Per RFP
195	7.11. Backup Software Clause No. 21	102	The software should be able to use Network file share/block storage and native file server volumes for keeping the backup copies.	As Per RFP
196	7.11. Backup Software Clause No. 22	101	It should have full support for backing up virtual servers (image level) on various hypervisors like Hyper - V, ESXi, RHEV, OVM, Acropolis, Citrix, Fusion.	As Per RFP
197	7.11. Backup Software Clause No. 29	103	Should support software based de-duplication to support any storage system, cloud repository and object storage as de-duplicated disk target. Based on policy backup software should be able to move data to a tape library automatically. The proposed backup solution should support snapshot based backup from various vendors such as Hyperflex, HP 3PAR, EVA, Fujitsu Eternus, Oracle ZFS, Infinidat, Solidfire, Huawei, Tintri, etc.	Refer corrigendum
198	7.11. Backup Software Clause No. 31	103	Backup software should have the ability to archive data and create a single repository for backup and archive for space efficiency and easier data management.	Refer corrigendum
199	7.11. Backup Software Clause No. 33	103	It should support the following algorithms and provide better security in deployment across sites - BLOWFISH, GOST, Serpent, AES, Twofish, 3-DES.	Refer corrigendum
200	7.11. Backup Software Clause No. 35		Proposed backup software should be able to take backup and restore data at DC and DR both sites. If any license or server required for the same to be provided by the bidder.	Refer corrigendum
201	7.7. Secondary Storage Secondary	95	General Purpose Secondary Storage specification	As Per RFP
202	86	32	The switch platform should support "MACSec" (802.1AE) in hardware	As Per RFP
203	86	33	Switch support MPLS segment routing.	Refer Corrigendum
204	86	3	The switch should support minimum 1Tbps bandwidth	As Per RFP
205	86	4	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As Per RFP
206	86	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As Per RFP
207	86	16	OSPF v2, OSPFv3	As Per RFP
208	5	5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer Corrigendum
209	Page No 18 - Point No 1		Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
210	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 1(D)	Must be an appliance with Hardened OS OR any Software based solution running on Industry grade server which supports Multitenancy and Virtual Contexts	As per RFP
211	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 2(D)	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
212	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 2(C)	System must support 2K SSL TPS for 2K bit key and 5K SSL TPS (EC)	As per RFP

213	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 3	A SINGLE central controller should be capable of managing a HETEROGENOUS cloud environment comprising of different cloud and virtualization platforms	As per RFP
214	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 4	The proposed solution should have a Central Management station which support Auto-Discovery, Integration and Orchestration of the underlying cloud on which it has been deployed	Refer corrigendum
215	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 16	The Load Balancer should support Day 0 provisioning using Open interfaces for e.g. REST based provisioning of Network Interfaces and Application and associated policies	As per RFP
216	8.3 - Server Load Balancer with WAF	Page No 115 - Point No 40	System supports hardware based SSL acceleration OR standard SSL functionality built into the latest CPU's from Intel and AMD SSL which include stack optimizations and optimized instruction set code like RSAX, AVX,AVX-2, MULX, ADCX, ADOX, RORX, and RDSEED	Refer corrigendum
217	8.3 - Server Load Balancer with WAF	Page No 115 - Point No 50	System supports global redirection based on DNS	As per RFP
218	8.3 - Server Load Balancer with WAF		New Clause addition request in Load Balancer	As per RFP
219	8.3 - Server Load Balancer with WAF		New Clause Addition Request in load Balancer	As per RFP
220		New Solution	Request to add SSL VPN Specifications as a separate solution	As per RFP
221		New Solution	Request to add SSL Interceptor as a solution for SSL Decryption	As per RFP
222		New Solution	Request to add DLP as a solution for Data Leakage	As per RFP
223	Page No 77	6.9. Minimum Bill of material for DC, DR and NDR Site: PointNo 17	SUSE Linux Enterprise Server	As per RFP Operating System requirement is mentioned as per application sizing requirement
224	Page No 77	6.9. Minimum Bill of material for DC, DR and NDR Site: PointNo 17	SUSE Live Patching	As per RFP
225	Page No 77	6.9. Minimum Bill of material for DC, DR and NDR Site: PointNo 17	SLES HA	As per RFP
226	Page No 77	6.9. Minimum Bill of material for DC, DR and NDR Site: PointNo 17	SLES HA	As per RFP
227	Page No 77	6.9. Minimum Bill of material for DC, DR and NDR Site: Point No 18	SUSE Manager	As per RFP
228	121	9.1.2	The SDWAN CPE Solution providing OEMs must be listed as 'Leaders', 'Challengers' or 'Visionaries' in Gartner's report "Magic Quadrant for WAN Edge Infrastructure"	Refer Corrigendum
229	121	9.1.5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer Corrigendum
230	121	9.1.7	The NMS tool should have capability to monitor / manage 500 links (MPLS/Internet etc.) during the period of contract	As per RFP
231	NA	Control-Plane & Data Plane separation Clause	SDWAN solution must have separate Control plane and Data plane. The control traffic and data traffic must have different operating Port and should form on Separate Hardware.	As per RFP
232	NA	MII Clause	Department of Industrial Policy and Promotion under Ministry of Commerce and Industry vide letter no. P-45021/2/2017-PP dated 28/05/2018 has notified revised guidelines to be followed to promote manufacturing and production of goods and services in India under "Make in India" initiative. http://pib.nic.in/newsite/PrintRelease.aspx?relid=165658	As per RFP
233	NA	Indian Bank Experience	The Bidder/OEM must have supplied the proposed SD-WAN solution in atleast 1 Indian PSU Bank and 1 Indian Private Bank during last three years as on date of publishing the RFP.	As per RFP
234	NA	BFSI Experience Clause	The proposed SD-WAN solution must have supplied in atleast 5 BFSI organizations in India during last three years as on date of publishing of the RFP.	As per RFP
235	NA	Installation Experience in PSB in India	The proposed SD-WAN solution must have been also implemented in atleast one Indian Public Sector Bank at atleast 140 locations in India during last three years as on date of publishing of the RFP.	As per RFP
236	Page 71/ Section 6.8		Oracle Database shall use for application modules mentioned in above table. Proposed Virtualization software must be supported by Oracle as Hard Partitioning to optimize/Limit Oracle database licenses on x86 server platform.	Refer Corrigendum
237	Page-99. Section 7.12.	5 - Live Migration	Live migration of VM disk from one storage array to another without any VM downtime. Support this migration from one storage protocol to another e.g.: FC, NFS, iSCSI, DAS.	Refer Corrigendum

238	Page-18 / 3.31. Evaluation of Eligibility Criteria+B2:D4+B2:D4	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
239	Page-18 / 3.31. Evaluation of Eligibility Criteria	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
240	Page-22 / 3.31. Evaluation of Eligibility Criteria	12	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
241	101	7.11. Backup Software Clause No. 2	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs and Mobile devices like Laptops / Tabs / Phone.	As per RFP
242	101	7.11. Backup Software Clause No. 5	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs. Branches and end point backup is not in scope.	As per RFP
243	101	7.11. Backup Software Clause No. 7	For immediate recovery Bare metal recovery option should be considered for servers & desktops.	As per RFP
244	101	7.11. Backup Software Clause No. 9	The proposed solution should have ability to protect all mount paths associated with disk libraries configured from a Backup/Media Server against Ransomware attacks.	As per RFP
245	102	7.11. Backup Software Clause No. 21	The software should be able to use Network file share/block storage and native file server volumes for keeping the backup copies.	As per RFP
246	101	7.11. Backup Software Clause No. 22	It should have full support for backing up virtual servers (image level) on various hypervisors like Hyper - V, ESXi, RHEV, OVM, Acropolis, Citrix, Fusion.	As per RFP
247	103	7.11. Backup Software Clause No. 29	Should support software based de-duplication to support any storage system, cloud repository and object storage as de-duplicated disk target. Based on policy backup software should be able to move data to a tape library automatically. The proposed backup solution should support snapshot based backup from various vendors such as Hyper flex, HP 3PAR, EVA, Fujitsu Eternus, Oracle ZFS, Infinidat, Solidfire, Huawei, Tintri, etc.	Refer corrigendum
248	103	7.11. Backup Software Clause No. 31	Backup software should have the ability to archive data and create a single repository for backup and archive for space efficiency and easier data management.	Refer corrigendum
249	103	7.11. Backup Software Clause No. 33	It should support the following algorithms and provide better security in deployment across sites - BLOWFISH, GOST, Serpent, AES, Twofish, 3-DES.	Refer corrigendum
250		7.11. Backup Software Clause No. 35	Proposed backup software should be able to take backup and restore data at DC and DR both sites. If any license or server required for the same to be provided by the bidder.	Refer corrigendum
251	95	7.7. Secondary Storage Secondary	General Purpose Secondary Storage specification	As per RFP
252	Page 16	3.21	Bidder qualification	As per RFP
253	Section 4.6	SLA Table	SLA	As per RFP
254	Section 4.7	Managed Services SLA table	Technical Support	As per RFP
255	Section 4.7	Managed Services SLA table	Technical Support	As per RFP
256	6.1 detailed scope of work	6.1.c.o	Bidder has to provide connectivity from the DC-DR-NDR setup with existing Managed G-SOC location in Bangalore	Will be shared to succesful bidder
257	6.4	6.4.a	The Bidder should propose a scalable infrastructure design at DC, DR and NDR sites so that in future infrastructure can be added for growing needs of Bank.	As per RFP
258	Page 74	Technical Support	The bidder has to provide a dedicated onsite resource at location decided by Bank during bank's working hours for co-ordination with technical team of the selected bidders and Nainital Bank Ltd.	Refer corrigendum
259	Table H & Table G	Point 3	Managed Services and ITSM Software for proposed solution	As per RFP
260	Page No 18 - Point No 1	3.31 Evaluation of Eligibility Criteria	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
261	Page No 112 - Point No 1(D)	8.3 - Server Load Balancer with WAF	Must be an appliance with Hardened OS OR any Software based solution running on Industry grade server which supports Multitenancy and Virtual Contexts	As per RFP
262	Page No 112 - Point No 2(D)	8.3 - Server Load Balancer with WAF	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
263	Page No 112 - Point No 2(C)	8.3 - Server Load Balancer with WAF	System must support 2K SSL TPS for 2K bit key and 5K SSL TPS (EC)	As per RFP

264	Page No 113 - Point No 3	8.3 - Server Load Balancer with WAF	A SINGLE central controller should be capable of managing a HETEROGENOUS cloud environment comprising of different cloud and virtualization platforms	As per RFP
265	Page No 113 - Point No 4	8.3 - Server Load Balancer with WAF	The proposed solution should have a Central Management station which support Auto-Discovery, Integration and Orchestration of the underlying cloud on which it has been deployed	Refer corrigendum
266	Page No 113 - Point No 16	8.3 - Server Load Balancer with WAF	The Load Balancer should support Day 0 provisioning using Open interfaces for e.g. REST based provisioning of Network Interfaces and Application and associated policies	As per RFP
267	Page No 115 - Point No 40	8.3 - Server Load Balancer with WAF	System supports hardware based SSL acceleration OR standard SSL functionality built into the latest CPU's from Intel and AMD SSL which include stack optimizations and optimized instruction set code like RSAX, AVX,AVX-2, MULX, ADCX, ADOX, RORX, and RDSEED	Refer corrigendum
268	Page No 115 - Point No 50	8.3 - Server Load Balancer with WAF	System supports global redirection based on DNS	As per RFP
269		8.3 - Server Load Balancer with WAF	New Clause addition request in Load Balancer	As per RFP
270		8.3 - Server Load Balancer with WAF	New Clause Addition Request in load Balancer	As per RFP
271			Request to add SSL VPN Specifications as a separate solution	As per RFP
272			Request to add SSL Interceptor as a solution for SSL Decryption	As per RFP
273			Request to add DLP as a solution for Data Leakage	As per RFP
274	87	5	Min 1 PCI-e (Express) 16 x free slot after catering all the requirements	Refer corrigendum
275	87	8	SAS/SATA/SSD Raid controller capable of providing RAID 0, 1, 5 configurations	Refer corrigendum
276	88	20	b) Server should provide Anti-counterfeit and hardware policy based security	Refer Corrigendum
277	88	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
278	88	2	The switch should support minimum 2Tbps bandwidth	As per RFP
279	88	14	Dynamic Routing protocol support like OSPF, VXLAN, BGP, EVPN, ISIS or MPLS, VRFs, multicast protocols - PIM-SM, SSM, MSDP	Refer Corrigendum
280	89	29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
281	89	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
282	89	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
283	89	33	Switch support MPLS segment routing.	Refer Corrigendum
284	85	3	The switch should support minimum 1Tbps bandwidth	As per RFP
285	85	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	Refer Corrigendum
286	85	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
287	86	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
288	86	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
289	86	33	Switch support MPLS segment routing.	Refer Corrigendum
290	86	3	The switch should support minimum 1Tbps bandwidth	As per RFP
291	86	4	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
292	86	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
293	86	16	OSPF v2, OSPFv3	As per RFP
294	121	5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer Corrigendum
295	87	1	Proposed storage must be a All Flash Array unified storage system supporting both Scale- up and Scale-out technology. Designed to take advantage of the Flash/SSD for high performance, reliability, energy efficiency and	As per RFP
296	87	3	Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum

297	87	4	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the same should be quoted on day one for entire scable capacity.	Refer Corrigendum
298	88	5	Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB,15.3TB and 30.6TB SSD drives.	Refer Corrigendum
299	88	7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or eqvailent using SSD/Flash	Refer Corrigendum
300	88	8	Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
301	88	9	The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. if the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
302	89	18	Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
303	89	19	Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication, compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	Refer corrigendum
304	90	22	Proposed array should include license for Sync and Async Replication, Thin provisioning, Snapshots, Clones. Also should include application aware backup for Oracle, SQL, SAP, Exchange, SharePoint, VMware, Hyper-V etc. All the required or necessary licenses must be perpetual and provided for the usable capacity of the storage including license for management module.	Refer corrigendum
305	91	7	80 TB usable capacity should be configured with NL-SAS/SATA drives on RAID 6. The storage should provision with at least 2 host spares. Storage should be scalable upto 200TB usable capacity using NL-SAS/SATA drives.	As per RFP
306	18	3.31 - Eligibility Criteria - B2.2	Must be net profit making entity (from Indian operations only) continuously for the last three years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
307	18	3.31 - Eligibility Criteria - B2.2 & B2.3	Audited Financial statements for the financial years 2017-18, 2018-19 and 2019-20. Certified letter from the Chartered Accountant. The CA certificate in this regard should be without any riders or qualification.	Refer Corrigendum
308	Page 31	Point 4	Cyber Security solution strength and management. Approach for integration of proposed security tool with Bank's existing C-SoC setup/SIEM	Refer Corrigendum
309	Page - 64	Point i	Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant	Refer Corrigendum
310	Page - 66	Point b	Internet bandwidth 8 Mbps (1:1) with 1 Gbps of DDoS mitigation at DC and DR sites	Refer Corrigendum
311	Page 78	Point 33, 34	33.Managed Services and ITSM Software for proposed solution 34. Antivirus / Host IPS Solution(for all Physical and virtual servers Proposed)	Refer corrigendum
312	Page 78	Point 36	Privileged Identity Management	Refer corrigendum
313	Page 78	Point 39,40	VAPT	As per RFP
314	68	g	For new locations bidder will not take more than 3 weeks for at-least 1 link, commissioning and maximum additional 2 weeks for backup link.	Refer corrigendum
315	66, 67	c and d	Bidders offering last mile on the following media will be given higher weightage. The preference of last miles for each of the MPLS VPN links at location site is as below: 1 -Wireline Copper/Fibre – Atleast 50% of existing location should have primary link on Fibre/copper Page-62 THE NAINITAL BANK LTD. RFP Ref.No.NTB/IT/INFRA/2020/07/004 2 -Wireless (RF)/WiMax 3 -VSAT d) VSAT links should not be more than 10% of total locations	As per RFP

316	as per RFP Page 59 (ITSM Software)	i)	Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant	Refer Corrigendum
317	79		The bidder has to provide a dedicated onsite resource at location decided by Bank during bank's working hours for co-ordination with technical team of the selected bidders and Nainital Bank Ltd. Deputed resource will do the following activities:	Refer Corrigendum
318	44 to 47	4.1.	Stipulated Time Schedule	As per RFP
319	Page 89	Point 1	Rack Mountable: Mountable in standard 19 inch rack. Switch should be supplied 24 port copper 10G and 2nos. 10Gmultimode fibre ports for uplink.	As per RFP
320	page 127	Point 8 to 12		Refer Corrigendum
321	Page 62 Page 70	c, v. D	Bank intends to have near Zero data loss solution by deploying 3-Way DR (DC, NDR, and DR sites). RTO and RPO shall not be more than 120 minutes and 15 minutes respectively. Near DR setup should between 5 Km and 25 Km radius from DC site, which include the complete storage replication of DC in sync mode to achieve near Zero RPO.	As per RFP - Data size will be shared later on with succesful bidder
322	Page 63	B. iv, vi,	All the system logs should be properly stored for the period of 6months & archived for future analysis with retention of 10 years Disk based backup for 15 daily backups, 8 weekly backups, and 13 monthly and 11 yearly backups.	Refer corrigendum
323	Page 63	vii	Ship one copy of monthly data out to The Nainital Bank's Head Office at Nainital or RDC Haldwani or any preferred location decided by the Bank.	Refer Corrigendum
324	Page 64	m)	Bank has a requirement of 1500 end users desktops/laptops and bidder has to provide Anti-virus and patch management solution with maintenance for the same alongwith required infrastructure/Virtual Machine/Operating system etc.	Refer Corrigendum
325	Page 101	7.11	Backup software - point 4 - The proposed solution should be able to backup end user's desktop & laptops	Refer Corrigendum
326	Page 97	7.8	Tap library	As per RFP
327			Data migration	Refer Corrigendum
328	page 68	Point 6 -	Bidder's should provide Software Defined (SD) ready network with minimum (excluding 3G and 4G)	As per RFP
329	23	Experience & Support Infrastructure Point C	Bidder / OEM to have adequate stock of spares of all items supplied and should be able to replace the faulty hardware within 4 hours from the time of incident reporting.	Refer Corrigendum
330	pg 62	6.1 c) v	Bank intends to have near Zero data loss solution by deploying 3-Way DR (DC, NDR, and DR sites). RTO and RPO shall not be more than 120 minutes and 15 minutes respectively.	As per RFP
331	17	3.15	The EMD may be forfeited: a. if a Bidder withdraws its bid during the period of bid validity specified in the RFP; or b. in the case of a successful Bidder, if the Bidder fails; i. to sign the Contract in accordance; or ii. to furnish Security Deposit/Bank Guarantee for contract performance	Please be guided by RFP clause no. 3.15. It is clarified that if bidder fails to sign the contract the EMD may be forfeited.
332	as per RFP Page 59 (ITSM Software)	3.16	In the event of termination, Bank may Invoke the Performance Bank Guarantee/Security Deposits, recover such other direct costs and other amounts towards direct damages from the Agency that may have resulted from such default and pursue such other rights and/or remedies that may be available to the Bank under law.	As per RFP Page 38 Section III
333	19	3.2	Terms and Conditions of Bidders - Printed terms and conditions of the Bidders will not be considered as forming part of their Bids. The terms and conditions mentioned in the RFP will prevail.	As per RFP
334	21	3.31	Evaluation of Eligibility Criteria Bidder must not be blacklisted / debarred by any Statutory, Regulatory or Government Authorities or Public Sector Undertakings (PSUs / PSBs) or Private Banks or Financial Institutions since last 3 FY years and till date.	As per RFP

335	37	3.35	Bank's Right to Vary Scope of Contract at the time of Award - The Bank may at any time, by a written order given to the Bidder, make changes to the scope of the Contract as specified. If any such change causes an increase or decrease in the cost of, or the time required for the Bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Value or time schedule, or both, as decided by the bank and the Contract shall accordingly be amended. Any claims by the Bidder for adjustment under this Clause (Clause 3.35) must be asserted within thirty (30) days from the date of the Bidder's receipt of the Bank's changed order.	As per RFP
336	38	3.38	The above Security Deposit will be in the form of Bank Guarantee (BG) of any Scheduled Commercial Bank. Security Deposit should be valid for the entire contract period of 60 months and renewed for extended period, if required, and thereafter on satisfactory performance and completion of contract, the Security Deposit shall be refunded to the vendor without any interest.	As per RFP
337	38	3.38	THE NAINITAL BANK LTD. may, at any time, terminate the contract by giving written notice of -30- days to the vendor without any compensation, if the vendor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to THE NAINITAL BANK LTD. If at any point during the contract, if the vendor fails to, deliver as per the tender terms and conditions or any other reason amounting to disruption in service, the Termination and Exit Management clause to be incorporated in contract, will be invoked.	Will be detailed in agreement with successful bidder
338	39	3.39	Placing of Purchase Orders - Quantities mentioned in BoQ (Bill of Quantity) are merely indicative and THE NAINITAL BANK LTD. reserves the right at the time of award of purchase order to increase or decrease the quantity of goods and / or services from what was originally specified while floating the RFP without any change in unit price or any other terms and conditions.	Will be clarified during signing of contract.
339	39	3.39	For procurement of Hardware/software/solution/system/service including telecom, Purchase order will be placed on the vendor in hardcopy format.	As per RFP
340	39	3.39	If the vendor is not able to supply/deploy/operationalize the ordered Hardware/software system/service/process completely within the specified period, the penalty clause will be invoked.	As per RFP
341	42	4	Quality	As per RFP
342	42	4	Statutory Laws	As per RFP
343	42	4	Confidential Information: All information exchanged between the parties will be confidential. If the implementation project requires disclosure of, or receipt of, confidential information, such disclosure or receipt will be made with mutual agreement and may be with a separately executed MoU / Non-Disclosure agreement with Vendor by the Bank.	Will be signed with successful bidder
344	43	4	Arbitration: The Bank and the Bidder shall make every effort to resolve amicably, by direct negotiation between the respective Designated Officials of the bank and the Bidder, any disagreement or dispute arising between them under or in connection with the RFP and or contract thereafter. If the designated official of the Bank and the Bidder are unable to resolve the dispute within -30- days from the commencement of such informal negotiations, they shall immediately escalate the dispute to their Senior Authorized Personal. If within -30- days from the commencement of such negotiations between the Senior Authorized Personal designated by the Bidder and Bank, are unable to resolve their dispute amicably, in such case the dispute shall be settled finally by arbitration in, Uttarakhand, India under and in accordance with the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification or reenactment thereof. The right to appoint arbitrator shall lie with the bank only.	Refer corrigendum
345	47	4.1	The Bidder shall perform the Services and comply in all respects with the critical dates and failure on part of the Bidder to meet the critical dates without prejudice to any other rights that the Bank may have, may lead to the imposition of such obligations as are laid down in the Delay and Deterrent Mechanism and/or levy of penalty and/or termination of the Contract at the discretion of the Bank.	As per RFP Section III

346	44	4.4	Payment Schedule All Payments shall be made in Indian Rupees Only and shall be released by the Bank against the invoices raised by bidder within 30 calendar days given all the relevant documents are submitted timely and are complete in all reference.	As per RFP
347	62	Sec V	Scope of Work	As per RFP
348	83	6.14	The bidder shall be responsible for backup of storage as per the policies of THE NAINITAL BANK LTD. at the Data Centre. These policies would be discussed with the bidder at the time of installation and configuration.	Will be shared with succesful bidder
349	71	6.2	Acceptance of System and Commissioning	As per RFP
350			Limitation of Liability (New Clause)	Will be considered at the time of signing of agreement/contract.
351			Service Levels and Penalties (New Clause)	As per RFP
352	Pg .18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
353	pg .18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
354	94 /	7.10 DRM Software 1	The proposed solution must offer a workflow based management & monitoring capability for the real time monitoring of a DR solution parameters like RPO (at DB level), RTO, replication status and should provide alerts on any deviations	As per RFP
355	94	7.10 DRM Software 2	The proposed solution should provide a single dashboard to track DR Readiness status of all the applications under DR	As per RFP
356	94	7.10 DRM Software 6	The proposed solution should be capable of executing DR drill and recovery workflows in simulation mode, without any changes to DR to ensure conditions are met to ensure a successful execution	As per RFP
357	94	7.10 DRM Software 7	The proposed solution should have granular, role based administration and should use existing Active Directory/LDAP for identity management without the need of its own, separate identity management database and facilitate role based administration based on attributes defined in AD/LDAP	As per RFP
358	94	7.10 DRM Software 8	The proposed solution should be capable of generating reports and email/SMS alerts on RPO deviation, RTO deviation and DR Drills from a centralized location.	As per RFP
359	95	7.10 DRM Software 9	The proposed solution should be able to manage hosts by either deploying agents or without deploying any agent and should seamlessly integrate with existing environment without the need to replace/change configuration including existing clusters.	As per RFP
360	95	7.10 DRM Software 11	The proposed solution should have file level replication for associated application servers and DB log replication which is supported on the commonly used OS platforms and has inbuilt bandwidth compression	As per RFP
361	95	7.10 DRM Software 15	The main management server of the proposed should have a mechanism to have a local HA and remote, real time replica to eliminate any single point of failure and should not have any impact on the production in case the main management server fails.	As per RFP
362	95	7.10 DRM Software 14	The DR Monitoring and Management software must be available in India market for more than 5 years and running in at least 15 large PSU/government organizations	Refer corrigendum
363	95	7.10 DRM Software 16	The DR Management solution should be tested and certified by an A2LA Accredited Organization to ensure that there are no security vulnerabilities which can be exploited	Refer corrigendum
364	Page No. 97	13	Backup Software Specification	As per RFP
365	Page No. 72	27	Minimum bill of material required for DC, DR & NDR	Bidder has to provide the license as per OEM policy and their solution it should be factored for minimum 20TB front end capacity of primary storage or number of sockets in servers proposed by bidder in their solution.
366			general queries	Mast height will vary from place to place.
367	Page No-24	point 2	Bidder / OEM to have adequate stock of spares of all items supplied and should be able to replace the faulty hardware within 4 hours from the time of incident reporting.	Refer corrigendum

368	29	Point4	Bidder must have experience in executing SD-WAN Project of minimum 100 sites in each project:2.5 mark for each SD-WAN Project where minimum 100 sites connectivity executed by bidder (Maximum 2 Projects)	As per RFP
369	64	i)	Himanshu Ranjan	As per RFP
370	66,67	c, d	Bidders offering last mile on the following media will be given higher weightage. The preference of last miles for each of the MPLS VPN links at location site is as below: 1 -Wireline Copper/Fibre – Atleast 50% of existing location should have primary link on Fibre/copper Page-62 THE NAINITAL BANK LTD. RFP Ref.No.NTB/IT/INFRA/2020/07/004 2 -Wireless (RF)/WiMax 3 -VSAT d) VSAT links should not be more than 10% of total locations	As per RFP
371	68	Management, b	The bidder should provide NMS (hardware and software) tool and configure the same to monitor and manage all the transport media terminated on the CPE. This includes the transport media which the bidder proposes to procure from alternative service providers during the entire period of contract	Refer corrigendum
372	68	g	For new locations bidder will not take more than 3 weeks for at-least 1 link, commissioning and maximum additional 2 weeks for backup link.	Refer corrigendum
373	23	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
374	Page no- 82 Section -7	7.2. Rack Server Specifications	Request to add the point	As per RFP
375	Page no- 83 Section -7	7.3. Core Switch Sr.No -1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
376	83	7.3. Core Switch Sr.No -2	The switch should support minimum 2Tbps bandwidth	bidder is free to propose higher or better solution
377	83	7.3. Core Switch Sr.No -12	The Switch should support IPv4 DHCP Server serving IP addresses for multiple DHCP pools/scopes	Refer Corrigendum
378	83	7.3. Core Switch Sr.No -13	The switch should Support DHCP options	Refer Corrigendum
379	84	7.3. Core Switch Sr.No -29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
380	84	7.3. Core Switch Sr.No -33	Switch support MPLS segment routing.	Refer Corrigendum
381	84	7.3. Core Switch	Switch Should Support FCOE protocol	bidder is free to propose higher or better solution
382	86	7.4. Access, Staging Switch Sr no - 30	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
383	87	7.5. Management Switch	Request to add the point	As per RFP
384	94	7.9. SAN switch	Request to add the point	As per RFP
385	94	7.9. SAN switch	Request to add the point	As per RFP
386	94	7.9. SAN switch	Request to add the point	As per RFP
387	94	7.9. SAN switch	Request to add the point	As per RFP
388	94	7.9. SAN switch	Request to add the point	As per RFP
389	121	9.1 SDWAN Sr no - 3	Request to clarify the point below for the highlighted bold feature:	Refer corrigendum
390	121	9.1 SDWAN Sr no - 5	Request to clarify the point below for the highlighted bold line:	Refer corrigendum
391	62	NA	Last mile Links	Refer corrigendum
392	Page 122 - 155	Annexure D - Telecom Location Location BW details	Clarification/Recommendation	Refer corrigendum
393	62	CPE Devices	h) The SDWAN centralised controller should be hosted within India, in HA mode and should be in different geo-seismic zones.	Refer corrigendum
394	62	CPE Devices	Request to add point	As per RFP

395	Page no- 77	6.9. Minimum Bill of material for DC, DR and NDR Site: AAA Solution	AAA Solution- Specification missing	Refer corrigendum
396	Page no- 77	6.9. Minimum Bill of material for DC, DR and NDR Site: AAA Solution	AAA Solution- Qty 1 in DC	Refer corrigendum
397	na	Additional clause	Addition of 2 nos of Layer 2 Switches in DC & DR	Bidder can propose, if additional switches are required to meet their proposed solution
398	Page 112	Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 7(b)	Repairing the registry	As per RFP
399	Page 112 8.	Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 12	solution shall provide option to limit/deny access to specific shared folders, block ports, and deny write access to specific folders on selected clients in case there is an outbreak	As per RFP
400	Page 112 8.	Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 14	Must provide Real-time lock down of client configuration – allow or prevent users from changing settings or unloading/uninstalling the software and provide tamper protection even if user or malware is running with admin privileges.	As per RFP
401	Page 113	Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 17	Should have a feature that allows administrators to configure port blocking, block shared folder, deny writes to folders manually and ability to isolate it completely from the network except to the management server	As per RFP
402	Page 113	Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 19	Should have the capability to assign a client the privilege to act as an update agent for rest of its peer endpoints for a location.	Refer corrigendum
403	Page 114	. Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 40	Solution should be agent based for managing all critical components for comprehensive security on endpoint (AV, Anti spyware, device control, Application control, desktop firewalls, desktop HIPS etc.)	Refer corrigendum
404	Page 114	. Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 44	The solution should potentially block the end point system from loading physical devices such as removable storage devices, Bluetooth, Wi-Fi, and other plug and play devices based on device classes and device definitions are used to define device rules	As per RFP
405	Page 114	. Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 47	It should be able to control the access of USB devices by using their vendor ID, product ID or serial number.	As per RFP
406	Page 114	. Annexure B: Cyber Security Technical and Functional Compliance 8.5 Endpoint security Sr no - 49	It should support ability to restrict access to company approved devices, but also if necessary to permit exclusions to this requirement. Exception and/or exclusions can be designed to accommodate different devices or different groups of users	As per RFP

407	Page 119 8. Annexure B: Cyber Security Technical and Functional Compliance	8.8 Multi Factor Authentication Sr no -1	Request to dilute this clause Service Infrastructure should reside in India	As per RFP
408	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 11	Concurrent Sessions – 8,000,000	As per RFP
409	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 21	The proposed firewall shall have on box Anti- Virus/Malware, Anti Spyware signatures and should have minimum signatures update window of 600 seconds.	Refer Corrigendum
410	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 11	The system should be able to support file sizes upto 100 mb and more	As per RFP
411	Page 101 8. Annexure B: Cyber Security Technical and Functional Compliance	8.1 NGFW (Firewall+IPS+URL+ zero day + Anti-virus/Anti-Bot) SR no 26	Number of VM's should be atleast 12	Refer Corrigendum
412	Page 106 8. Annexure B: Cyber Security Technical and Functional Compliance	Anti-APT Specifications Sr no - 28	The APT appliance should be able to process minimum of 280 files/hour or 2,00,000 files/month on the VM sandboxing	As per RFP
413	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 4	Memory - AS per Sizing table mentioned	Refer Corrigendum
414	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 7	DHH - AS per Sizing table mentioned	Refer Corrigendum
415	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications sr no 7	Server Management	On prem
416	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications	Request to add the point	As per RFP
417	Page - 82 7. Annexure A: Hardware/Software Technical Compliance	7.2. Rack Server Specifications	Clarification/Recommendation	Bidder is free to propose higher or better specification
418	Page 25 3.31 Evaluation of Eligibility Criteria	B1	If bidder (partner of OEM) is not able to fulfill its obligation to support the product during the contract period, OEM will have to ensure support as per contract. An undertaking from the OEM to this effect must be submitted.	As per RFP
419	Page 25 3.31 Evaluation of Eligibility Criteria	B1	OEM must ensure that the Servers to be supplied will not be End of Sale in next 3 years minimum (from RFP date) and End of Support in next 7 years from End of Sale.	Refer corrigendum
420	51 to 55	4.6 & 4.7	SLA	As per RFP
421	Page No. 116 Point no 64/ 8.5 Endpoint Security	Endpoint Security	Solution should provide the capability to log administrative activities in the Management console. Administrative activities that are logged in the Management console include, changes to policies, deployment of policies, agent override activities, agent termination, and agent uninstall key generation	As per RFP
422	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	As per RFP
423	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	As per RFP
424	Page No. 111 Point 5/ 8.4 HIPS	HIPS	Verify success or failure of an server	Refer Corrigendum
425	Page No. 111 Point 8/ 8.4 HIPS	HIPS	Well suited for encrypted and switched environments	Refer Corrigendum
426	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
427	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
428	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
429	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
430	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
431	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
432	Page No. 22 Point 12/ 3.31. Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum

433	3.31 Evaluation of Eligibility Criteria	Page No 18 - Point No 1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
434	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 1(D)	Must be an appliance with Hardened OS OR any Software based solution running on Industry grade server which supports Multitenancy and Virtual Contexts	As per RFP
435	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 2(D)	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
436	8.3 - Server Load Balancer with WAF	Page No 112 - Point No 2(C)	System must support 2K SSL TPS for 2K bit key and 5K SSL TPS (EC)	As per RFP
437	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 3	A SINGLE central controller should be capable of managing a HETEROGENOUS cloud environment comprising of different cloud and virtualization platforms	As per RFP
438	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 4	The proposed solution should have a Central Management station which support Auto-Discovery, Integration and Orchestration of the underlying cloud on which it has been deployed	Refer corrigendum
439	8.3 - Server Load Balancer with WAF	Page No 113 - Point No 16	The Load Balancer should support Day 0 provisioning using Open interfaces for e.g. REST based provisioning of Network Interfaces and Application and associated policies	As per RFP
440	8.3 - Server Load Balancer with WAF	Page No 115 - Point No 40	System supports hardware based SSL acceleration OR standard SSL functionality built into the latest CPU's from Intel and AMD SSL which include stack optimizations and optimized instruction set code like RSAX, AVX,AVX-2, MULX, ADCX, ADOX, RORX, and RDSEED	Refer corrigendum
441	8.3 - Server Load Balancer with WAF	Page No 115 - Point No 50	System supports global redirection based on DNS	As per RFP
442	8.3 - Server Load Balancer with WAF		New Clause addition request in Load Balancer	As per RFP
443	8.3 - Server Load Balancer with WAF		New Clause Addition Request in load Balancer	As per RFP
444		New Solution	Request to add SSL VPN Specifications as a separate solution	As per RFP
445		New Solution	Request to add SSL Interceptor as a solution for SSL Decryption	As per RFP
446		New Solution	Request to add DLP as a solution for Data Leakage	As per RFP
447	3.31 B1 page no 17	3.31. Evaluation of Eligibility Criteria	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
448	3.31 D Sr no 12page no 22	3.31. Evaluation of Eligibility Criteria	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
449	Table B -BOQ-DC-DR(OPEX) page no 160	Sr no 10 Privileged Identity Management	They have just mentioned 20	Refer Corrigendum
450	8.9 page no 120	8.9Privileged Identity Management	Suggestion	As per RFP
451	8.9 page no 121	8.9Privileged Identity Management	Suggestion	As per RFP
452	8.9 page no 122	8.9Privileged Identity Management	Suggestion	As per RFP
453	8.9 page no 123	8.9Privileged Identity Management	Suggestion	As per RFP
454	8.9 page no 124	8.9Privileged Identity Management	Suggestion	As per RFP
455	8.9 page no 125	8.9Privileged Identity Management	Suggestion	As per RFP
456	8.9 page no 126	8.9Privileged Identity Management	Suggestion	As per RFP
457	8.9 page no 127	8.9Privileged Identity Management	Suggestion	As per RFP
458	8.9 page no 128	8.9Privileged Identity Management	Suggestion	As per RFP
459	8.9 page no 129	8.9Privileged Identity Management	Suggestion	As per RFP
460	8.9 page no 130	8.9Privileged Identity Management	Suggestion	As per RFP
461	8.9 page no 131	8.9Privileged Identity Management	Suggestion	As per RFP
462	8.9 page no 132	8.9Privileged Identity Management	Suggestion	As per RFP
463	8.9 page no 133	8.9Privileged Identity Management	Suggestion	As per RFP

464	8.9 page no 134	8.9Privileged Identity Management	Suggestion	As per RFP
465	8.9 page no 135	8.9Privileged Identity Management	Suggestion	As per RFP
466	8.9 page no 136	8.9Privileged Identity Management	Suggestion	As per RFP
467	92/7.6	7	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system	Refer corrigendum
468	93/7.6	7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer corrigendum
469	98/7.9	3	Switch SFP's should support the 4/8/16/32 Gbps of host connection.	Refer Corrigendum
470	Pg .18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
471	pg .18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
472	87	7.2 Primary Storage Specification - Cl. 1	Proposed storage must be a All Flash Array unified storage system supporting both Scale- up and Scale-out technology. Designed to take advantage of the Flash/SSD for high performance, reliability, energy efficiency and	As per RFP
473	87	7.2 Primary Storage Specification - Cl. 3	Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum
474	87	7.2 Primary Storage Specification - Cl. 4	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the same should be quoted on day one for entire scable capacity.	Refer Corrigendum
475	88	7.2 Primary Storage Specification - Cl. 5	Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB,15.3TB and 30.6TB SSD drives.	Refer Corrigendum
476	88	7.2 Primary Storage Specification - Cl. 7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer Corrigendum
477	88	7.2 Primary Storage Specification - Cl. 8	Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
478	88	7.2 Primary Storage Specification - Cl. 9	The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. if the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
479	89	7.2 Primary Storage Specification - Cl. 18	Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
480	89	7.2 Primary Storage Specification - Cl. 19	Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication, compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	Refer Corrigendum
481	90	7.2 Primary Storage Specification - Cl. 22	Proposed array should include license for Sync and Async Replication, Thin provisioning, Snapshots, Clones. Also should include application aware backup for Oracle, SQL, SAP, Exchange, SharePoint, VMware, Hyper-V etc. All the required or necessary licenses must be perpetual and provided for the usable capacity of the storage including license for management module.	Refer Corrigendum
482	91	7.3 Storage Secondary Specification - Cl. 7	80 TB usable capacity should be configured with NL-SAS/SATA drives on RAID 6. The storage should provision with at least 2 host spares. Storage should be scalable upto 200TB usable capacity using NL-SAS/SATA drives.	Refer Corrigendum
483	94	Point 17	The solution shall support replication in one to many and many-to-one mode. The replication solution on storage shall support failover to BCP/DR storage and fallback as and when required using DC, DR and NDR	As per RFP
484	87	7.2 Rack Server Specifications - Cl 5	Min 1 PCI-e (Express) 16 x free slot after catering all the requirements	Refer Corrigendum

485	87	7.2 Rack Server Specifications - CI 8	SAS/SATA/SSD Raid controller capable of providing RAID 0, 1, 5 configurations	Refer Corrigendum
486	88	7.2 Rack Server Specifications - CI 20	b) Server should provide Anti-counterfeit and hardware policy based security	Refer Corrigendum
487	Page-39 / 4.1. Stipulated Time Schedule	Delivery of all ICT infrastructure components (all requisite Hardware+ Software) for all sites as per Phase –I (refer SOW Point -6.1)	T + 60 Days	As per RFP
488	Page-39 / 4.1. Stipulated Time Schedule	Installation, configuration and commissioning of all ICT infrastructure components (hardware, OS, DB) as part of Phase 1. The infra should be ready to handover to CBS application provider to start	T + 90Days	As per RFP
489	Page-67 / 6.8. Application sizing requirements	Important Points for sizing considerations and solution:	Log server at DC & DR has to be physical and should be supplied with requisite Windows OS.	Refer corrigendum
490	Page 57 / 6. Section V: Scope of Work	6.1. Detailed Scope of Work:	m) Bank has a requirement of 1500 end users desktops/laptops and bidder has to provide Anti-virus and patch management solution with maintenance for the same along with required infrastructure/Virtual Machine/Operating system etc.	Refer corrigendum
491	Page 57 / 6. Section V: Scope of Work	6.1. Detailed Scope of Work:	m) Bank has a requirement of 1500 end users desktops/laptops and bidder has to provide Anti-virus and patch management solution with maintenance for the same along with required infrastructure/Virtual Machine/Operating system etc.	Refer corrigendum
492	Page 58, Section 6.1 Detailed Scope of Work	VI.	Disk based backup for 15 daily backups, 8 weekly backups, and 13 monthly and 11 yearly backups.	Refer corrigendum
493	Page No. 97 / 7.11. Backup Software	13. The proposed backup solution shall offer Open File support for Windows, Linux based Servers	The proposed backup solution shall offer Open File support for Windows, Linux based Servers	As per RFP
494	Page No. 72 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	S. No - 27	Minimum bill of material required for DC, DR & NDR	Bidder has to provide the license as per OEM policy and their solution it should be factored for minimum 20TB front end capacity of primary storage or number of sockets in servers proposed by bidder in their solution.
495	Page 94 / 7.10 DRM Software	S. No - 1	The proposed solution must offer a workflow based management & monitoring capability for the real time monitoring of a DR solution parameters like RPO (at DB level), RTO, replication status and should provide alerts on any deviations	As per RFP
496	Page 94 / 7.10 DRM Software	S. No - 2	The proposed solution should provide a single dashboard to track DR Readiness status of all the applications under DR	As per RFP
497	Page 94 / 7.10 DRM Software	S. No - 6	The proposed solution should be capable of executing DR drill and recovery workflows in simulation mode, without any changes to DR to ensure conditions are met to ensure a successful execution	As per RFP
498	Page 94 / 7.10 DRM Software	S. No - 7	The proposed solution should have granular, role based administration and should use existing Active Directory/LDAP for identity management without the need of its own, separate identity management database and facilitate role based administration based on attributes defined in AD/LDAP	As per RFP
499	Page 94 / 7.10 DRM Software	S. No - 8	The proposed solution should be capable of generating reports and email/SMS alerts on RPO deviation, RTO deviation and DR Drills from a centralized location.	As per RFP
500	Page 94 / 7.10 DRM Software	S. No - 9	The proposed solution should be able to manage hosts by either deploying agents or without deploying any agent and should seamlessly integrate with existing environment without the need to replace/change configuration including existing clusters.	As per RFP

501	Page 94 /7.10 DRM Software	S. No - 11	The proposed solution should have file level replication for associated application servers and DB log replication which is supported on the commonly used OS platforms and has inbuilt bandwidth compression	As per RFP
502	Page 94 /7.10 DRM Software	S. No - 15	The main management server of the proposed should have a mechanism to have a local HA and remote, real time replica to eliminate any single point of failure and should not have any impact on the production in case the main management server fails.	As per RFP
503	Page 94 /7.10 DRM Software	S. No - 14	The DR Monitoring and Management software must be available in India market for more than 5 years and running in at least 15 large PSU/government organizations	Refer corrigendum
504	Page 94 /7.10 DRM Software	S. No - 16	The DR Management solution should be tested and certified by an A2LA Accredited Organization to ensure that there are no security vulnerabilities which can be exploited	Refer corrigendum
505	Page 73 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	S. NO - 42	DDOS 1Gbps Mitigation at ILL	Refer corrigendum
506	Page 72 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	6.9. Minimum Bill of material for DC, DR and NDR Site:		Refer corrigendum
507	Page 122/ 10. Annexure D - Telecom Location	S. No - 6	Point to Point link between DC to DR	Refer corrigendum
508	Page 122 / 10. Annexure D - Telecom Location	S. No - 7	Point to Point link between proposed NDR to proposed DR	Refer corrigendum
509	Page-122 / 10. Annexure D - Telecom Location			Refer corrigendum
510	Page 122 / 10. Annexure D - Telecom Location			Refer corrigendum
511	Page 72 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	20. Microsoft Active directory CAL License	Microsoft Active directory CAL License -1000	Refer corrigendum
512	Page 58 / 6.1. Detailed Scope of Work:	b. Phase 2 of IT Infrastructure includes:	Designing, implementation and Configuration of Windows Active Directory Environment up to branch level (End user). Bidder need to Consider 1000 CAL for Active Directory.	Refer corrigendum
513	Page 58/ 6.1. Detailed Scope of Work:	b. Phase 2 of IT Infrastructure includes:	iv. All the system logs should be properly stored for the period of 6 months & archived for future analysis with retention of 10 years. These Log Sources should be enabled for syncing at SOC Location of THE NAINITAL BANK LTD as per Bank guidelines.	Refer corrigendum
514	Page 25 / 3.31 Evaluation of Eligibility Criteria	b. Proposed Solution Strength	DC, DR and NDR IT solution integration, data replication approach and RTO/RPO compliance	Refer corrigendum
515	Page 25 / 3.31 Evaluation of Eligibility Criteria	b. Proposed Solution Strength	DC, DR and NDR IT solution integration, data replication approach and RTO/RPO compliance	Refer corrigendum
516	Page 58 / 6.1. Detailed Scope of Work:	b. Phase 2 of IT Infrastructure includes:	vi. Disk based backup for 15 daily backups, 8 weekly backups, and 13 monthly and 11 yearly backups.	Refer corrigendum
517	Page 58 / 6.1. Detailed Scope of Work:	S. No - i	l) Bidder has to provide the antivirus servers and patch management servers at DR Location for DC, DR, NDR and end users.	Refer Corrigendum
518	Page -114 \ 8.5 Endpoint security	S. No -38	Must be capable of uninstalling and replacing existing client antivirus software	As per RFP
519	Page 59 / 6.1. Detailed Scope of Work:	i	l) Bidder has to provide the antivirus servers and patch management servers at DR Location for DC, DR, NDR and end users.	Refer Corrigendum
520	Page 60 / 6.1. Detailed Scope of Work:		p) Complete ownership of integration various components as a functional solution, Installation, testing, commissioning and operations and management of supplied items as per BOQ is bidder's responsibility. Bidder shall be responsible to supply and install minor components required to make solution functional e.g. patch cords, cables, connectors, ports etc.	Refer corrigendum
521	Page 60 / 6.1. Detailed Scope of Work:		t) Racks provided by the bidder for hosting of infrastructure at DC, DR and NDR sites should be provisioned for Nainital Bank Ltd and other customer/organization infrastructure should not be hosted in the same rack provisioned for Nainital Bank Ltd. These racks should be lockable and bidder must take prior permission from Nainital Bank Ltd for any physical access of these racks for the contract period after go live.	As per RFP
522	Page 73 / 6.9. Minimum Bill of material for DC, DR and NDR Site	6.9. Minimum Bill of material for DC, DR and NDR Site	Point no 29. JBoss Enterprise Application Platform 51 Cores	Refer corrigendum
523	Page 73 / 6.9. Minimum Bill of material for DC, DR and NDR Site	6.9. Minimum Bill of material for DC, DR and NDR Site	Point No 29 . JBoss Web Server 30 cores	Refer corrigendum
524	Page no- 83 / Section -7. Annexure A: Hardware/Software Technical Compliance	7.3. Core Switch Sr.No -1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
525	Page No -83	7.3. Core Switch Sr.No -2	The switch should support minimum 2Tbps bandwidth	bidder is free to propose higher or better solution

526	Page No -83	7.3. Core Switch Sr.No -12	The Switch should support IPv4 DHCP Server serving IP addresses for multiple DHCP pools/scopes	Refer Corrigendum
527	Page No -83	7.3. Core Switch Sr.No -13	The switch should Support DHCP options	Refer Corrigendum
528	Page No. -84	7.3. Core Switch Sr.No -29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
529	Page No. -84	7.3. Core Switch Sr.No -33	Switch support MPLS segment routing.	Refer Corrigendum
530	Page No. -84	7.3. Core Switch	Switch Should Support FCOE protocol	bidder is free to propose higher or better solution
531	Page no- 84 / Section -7. Annexure A: Hardware/Software Technical Compliance	7.4. Access, Staging Switch Sr no - 1	Rack Mountable: Mountable in standard 19 inch rack. Switch should be supplied 24 port copper 10G and 2nos. 10G multimode fibre ports for uplink.	bidder is free to propose higher or better solution
532	Page No 121 / 9.1 SDWAN Sr no - 3	9.1 SDWAN Sr no - 3	Request to clarify the point below for the highlighted bold feature:	Refer Corrigendum
533	Page No 121 / 9.1 SDWAN Sr no - 3	9.1 SDWAN Sr no - 5	Request to clarify the point below for the highlighted bold line:	Refer Corrigendum
534	Page - 62	Last mile Links	Last mile Links	Refer Corrigendum
535	Page No 122 / 10. Annexure D - Telecom Location	10. Annexure D - Telecom Location	Location BW details	Refer Corrigendum
536	Page no- 77 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	AAA Solution	AAA Solution- Specification missing	Refer Corrigendum
537	Page no- 77 / 6.9. Minimum Bill of material for DC, DR and NDR Site:	AAA Solution	AAA Solution- Qty 1 in DC	Refer Corrigendum
538	na	Additional clause	Addition of 2 nos of Layer 2 Switches in DC & DR	Refer Corrigendum
539	Page 25 / 3.31 Evaluation of Eligibility Criteria	5. No -B1	OEM must ensure that the Servers to be supplied will not be End of Sale in next 3 years minimum (from RFP date) and End of Support in next 7 years from End of Sale.	Refer Corrigendum
540	Page No 98 / 7.12. Virtualization Software	Bare Metal Solution	Sits directly on the bare metal server hardware with no dependence on a general-purpose OS for greater reliability & security and should be Leaders in the Gartner's Magic Quadrant for at least last 5 years in a row.	Refer Corrigendum
541	Page No 99 / 7.12. Virtualization Software	Availability	Zero downtime, no data loss and continuous availability for the applications running in virtual machines in the event of physical host failure, without the cost and complexity of traditional hardware or software clustering solutions.	bidder is free to propose higher or better solution
542	Page No 67 / 6.7. Cyber Security	6.7. Cyber Security	d) Security Team of the Bidder should operate under the guidelines provided by Bank and Designated SOC for governance as and when it would be operational. All Security controls proposed in the RFP should be made available for integration with Bank's existing SoC Setup. Bidder's security team should adhere with the instructions given by Bank's CISO for smooth integration of proposed security tools with the Bank's existing SIEM tool.	1. details shall be shared with successful bidder. 2 & 3. already given in RFP 4. SIEM solution is not part of this RFP
543	Page No. 22 3.31. Evaluation of Eligibility Criteria	D .Others	12) OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
544	Page No 101 / NGFW	Point No 24	This should be a cloud base unknown malware analysis service with guaranteed protection signature delivery	Refer Corrigendum
545	Page No 103 / NGFW	Point No 38	The proposed firewall must support the following routing protocols: ' - Static ' - OSPFv2 and v3 with graceful restart ' - BGP v4 with graceful restart ' - Policy-based forwarding ' - PIM-SM	bidder is free to propose higher or better solution
546	Page No 106 / 8.2Internal Firewall	Point No 6	New clause "new session and current session are not mention in specification.	bidder is free to propose higher or better solution
547	Page No 106 / 8.2Internal Firewall	Point No 18	Allows secure deployment of next-generation IPv6 networks, as well as hybrid environments that require simultaneous, dual stack, support of IPv4 and IPv6	bidder is free to propose higher or better solution
548	Page 62 / 6. Section V: Scope of Work	Telecom - Scope of Work Note: 2.	3G/4G are not considered as last mile for site implementation. However, bank may allow installation of 3G/4G at some locations as backup link under exceptional circumstances where roof top permissions are not available for RF/VSAT delivery. Unmanaged service can be provided for such backup link delivered on 3G/4G (If any)	Refer corrigendum
549	Page 62 / 6. Section V: Scope of Work	Telecom - Scope of Work Note: 3.	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps	Refer corrigendum
550	Page 63 / 6. Section V: Scope of Work	CPE Devices , S. No - (h)	The SDWAN centralised controller should be hosted within India, in HA mode and should be in different geo-seismic zones.	Refer corrigendum
551	Page 165 / 11. Section VI : Financial Bid Format	Table F -Telecom	General	Refer corrigendum
552	Page 165 / 11. Section VI : Financial Bid Format	Table F -Telecom	General	Refer corrigendum

553	Page 165 / 11. Section VI : Financial Bid Format	Table F -Telecom	General	Refer corrigendum
554	Page 165 / 11. Section VI : Financial Bid Format	Table F -Telecom	General	bidder is free to propose higher or better solution
555	Page 63 / 6. Section V: Scope of Work	Management - Point no (G)	For new locations bidder will not take more than 3 weeks for at-least 1 link commissioning and maximum additional 2 weeks for backup link.	Refer corrigendum
556	Page 121 / 9. Annexure C: Telecom Technical and Functional compliance	Annexure C: Telecom Technical and Functional compliance 9.1 SDWA , S. No -2	The SDWAN CPE Solution providing OEMs must be listed as 'Leaders', 'Challengers' or 'Visionaries' in Gartner's report "Magic Quadrant for WAN Edge Infrastructure	Refer corrigendum
557	Page 44 / 4.4. Payment Schedule	Payment Schedule - Telecom – One Time Cost* , S. No - 5	50% of OTC of sites in Phase 2 on Installation and commissioning of link of remaining sites on pro-rata basis. 25% of OTC of sites in Phase 2 on successful simulation run of CBS application by application service provider and Bank team from all locations.	As per RFP
558	Page 61 \ Telecom - Scope of Work	Telecom Scope - Pint no (g)	For each site, two MPLS VPN links needs to be provided from two different operators to achieve link level, path level and network level redundancy (Service provider may take MPLS VPNs from multiple operators for achieving the same). The bidder has to coordinate with the other service provider for installation, configuration and integration of the link. Further, the bidder has to carry out complete management of all the links.	bidder is free to propose higher or better solution
559	Page 62 \ Telecom - Scope of Work	Last Mile Links - Point No (d)	VSAT links should not be more than 10% of total locations.	Refer corrigendum
560	Page 62 \ Telecom - Scope of Work	Last Mile Links -Note 1	The hand-off at all locations should be on Ethernet	Refer corrigendum
561	Page No. 122 / 10. Annexure D - Telecom Location			Refer corrigendum
562	Page No 40 / 4.1. Stipulated Time Schedule	S. No - 3	Delivery, Installation and configuration of Links and related SDWAN Configuration for DC-DR-NDR, Bank's PMO and existing SOC	As per RFP
563			General	Refer corrigendum
564			General	As per RFP
565			General	Refer corrigendum
566			General	As per RFP
567			General	Refer corrigendum
568	Page 62 / 6. Section V: Scope of Work	Last Mile Links -d	d) VSAT links should not be more than 10% of total locations.	Refer corrigendum
569				Refer corrigendum
570	Page 26 / Technical Scoring	b. Proposed Solution Strength	Cyber Security solution strength and management. Approach for integration of proposed security tool with Bank's existing C-SoC setup/SIEM	Refer corrigendum
571	Page 63 / 6. Section V: Scope of Work	Management	b) The bidder should provide NMS (hardware and software) tool and configure the same to monitor and manage all the transport media terminated on the CPE. This includes the transport media which the bidder proposes to procure from alternative service providers during the entire period of contract.	Refer corrigendum
572	Page 74 / 6.10 Schedule II: Operation and Maintenance Services	Technical Support	The bidder has to provide a dedicated onsite resource at location decided by Bank during bank's working hours for co-ordination with technical team of the selected bidders and Nainital Bank Ltd. Deputed resource will do the following activities:	Refer corrigendum
573	17 / 3.31 / Eligibility Criteria	Point No - B1	Evaluation of Eligibility Criteria RFP Clause: B1. Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems / products are quoted or if the OEM is bidding directly	As per RFP
574	Page No 18 / 3.31 Eligibility Criteria	Point No B1.1 & B1.2	Turnover and Profit for financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
575	18 / 3.31 / Eligibility Criteria	B2 (Turnover & Profit)	Below clause Applicable for the Bidder if submitting bid as a partner of the OEM (Also the OEM whose products are quoted by the partner to meet the criteria mentioned in B1)	As per RFP
576	19 / 3.31 / Eligibility Criteria	B2.1	Must have registered a turnover of 200 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
577	18 / 3.31 /	B2.2	Must be net profit making entity (from Indian operations only) continuously for the last three years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
578	19 / 3.31 / Eligibility Criteria	B2.3	Must be an authorized partner of OEM whose product are quoted (Servers, SAN storage, Network equipment's etc.) for supply & support for the past three years (from RFP date)	As per RFP

579	19 / 3.31 / Eligibility Criteria	C1 (Experience & Support Infrastructure)	The bidder must have provided Data Centre colocation facility to at least Ten (10) companies at any of their colocation sites in India. (Out of which Two credential should be from Commercial Banks / Financial Institutions / Government / PSU Organizations in India who have co-hosted their Data Centre) AND Should have a prior experience of set up and operations in colocation include IT Infrastructure (Servers, SAN storage, Network equipments etc.) for at least two DC/DR projects in Commercial Banks / Financial Institutions/ Government / PSU Organizations In India having value more than Rs.2 Crores.	Refer corrigendum
580	19 / 3.31 / Eligibility Criteria	C2 (Experience & Support Infrastructure)	Bidder / OEM to have adequate stock of spares of all items supplied and should be able to replace the faulty hardware within 4 hours from the time of incident reporting.	Refer corrigendum
581	19 / 3.31 / Eligibility Criteria	D1 (MAF)	Applicable when OEM is not the bidder: The bidder should have authorization from OEM (MAF) to quote for their products (Servers, SAN storage, Network equipment's etc.) And If bidder (partner of OEM) is not able to fulfill its obligation to support the product during the contract period, OEM will have to ensure support as per contract. An undertaking from the OEM to this effect must be submitted. Separate Letter of confirmation from the OEM needs to be submitted as per pt 5.2	As per RFP
582	20 / 3.31 / Eligibility Criteria	D3	Bidder must have certification for support of OS i.e. Unix/Linux based which are available in the market and are not in end of support.	Refer corrigendum
583	20 / 3.31 / Eligibility Criteria	D4	OEM must ensure that the Servers to be supplied will not be End of Sale in next 3 years minimum (from RFP date) and End of Support in next 7 years from End of Sale.	Refer corrigendum
584	21 / 3.31 / Eligibility Criteria	D7	The proposed colocation Data Centre/DR should be at least Tier III or above	Refer corrigendum
585	21 / 3.31 / Eligibility Criteria	D9	Data Center Location of Service Provider- The SP should have Data Center in Delhi/NCR and Near DR between 5 to 25 Km from proposed DC and DR at different seismic zone other than Delhi/NCR within India.	As per RFP
586	22 / 3.31 / Eligibility Criteria	D12	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
587	24 / 3.32. Evaluation of Technical Bids	A1. TECHNICAL SCORING	Number of completed data center colocation services projects by bidder - implemented / completed project(s) which include Supply, Installation, Configuration, Testing, Commissioning, Operations and Maintenance, (Operation and Maintenance can be in progress) of Compute / Networking Equipment / Cyber Security / Storage / Backup Equipment in the last 5 (Five) years (till last date of bid submission) with Total Contract Value of at least INR Two (2) Crores each. 1 marks for each Project (Maximum 5 Projects)	Refer Corrigendum
588	24 / 3.32. Evaluation of Technical Bids	A1. TECHNICAL SCORING	Number of completed data center colocation services projects by bidder - implemented / completed project(s) which include Supply, Installation, Configuration, Testing, Commissioning, Operations and Maintenance, (Operation and Maintenance can be in progress) of Compute / Networking Equipment / Cyber Security / Storage / Backup Equipment in the last 5 (Five) years (till last date of bid submission) with Total Contract Value of at least INR Two (2) Crores each. 1 marks for each Project (Maximum 5 Projects)	Refer Corrigendum
589	24 / 3.32. Evaluation of Technical Bids	A1. TECHNICAL SCORING	Supporting Documents (for the above clause): Order/Contract Copies with End Customer Certificate/FAT/installation report. TIER III/Rated- 3/TIA-942 certificate	Refer Corrigendum
590	24 / 3.32. Evaluation of Technical Bids	A3. TECHNICAL SCORING	Bidder must have experience in executing cyber security orders in last 5 years for its end customers covering following items: a) 1 mark for Next Generation Firewall/IPS/UTM project, where total order value should be minimum Rs. 1 Cr (Maximum 1 Project) b) 1 mark for each Privileged Identity Management and Database Activity Monitoring Project executed (Maximum 2 marks) c) 1 mark for each WAF and HIPS Project executed (Maximum 2 marks)	Refer Corrigendum
591	57/Section 6.1	6.1. Detailed Scope of Work:	Scope of Work as Defined in Phase 1 and Phase 2	As per RFP

592	39 / Section 4.1	4.1. Stipulated Time Schedule	Delivery of all ICT infrastructure components (all requisite Hardware+ Software) for all sites as per Phase - I - T + 60 Days	As per RFP
593	39 / Section 4.1	4.1. Stipulated Time Schedule	Installation, configuration and commissioning of all ICT infrastructure components (hardware, OS, DB) as part of Phase 1. The infra should be ready to handover to CBS application provider to start implementation of application software. - T + 90 Days	As per RFP
594	40 / Section 4.1	4.1. Stipulated Time Schedule	Delivery, Installation and configuration of Links and related SDWAN Configuration for DC-DR-NDR, Bank's PMO, Pilot Sites, all branches etc.	Please be clarified that SD-WAN & pilot sites shall be part of telecom scope not ICT Infrastructure scope.
595	39 & 40 Section 4.1	4.1. Stipulated Time Schedule	Penalties - 0.3 % per day for all items (Items 1 to 7, Infrastructure & SDWAN)	As per RFP
596	37 / Section 4.1	Force Majure Clause	Force Majeure: Bank shall not be responsible for delays or non-performance of any or all obligations, contained in this RFP or agreement thereafter, caused by war, revolution, insurrection, civil commotion, riots, mobilizations, strikes, blockade, acts of God, Plague, epidemics or pandemics, fire, flood, obstructions of navigation by ice of Port of dispatch, acts of government or public enemy or any other event beyond the control of the bank, which directly, materially and adversely affect the performance of any or all such obligations. However, the bidder shall continue to perform its obligations as contained in this RFP and agreement thereafter.	As per RFP
597	156 / Section VI	11. Section VI : Financial Bid Format	Summary Serial No. 10 - Amortization, Subscription, Telecom & Managed Services during Application implementation phase (X Months)	Refer corrigendum
598	Page No .18 \ Eligibility Criteria	S. No -1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
599	Page No .18 \ Eligibility Criteria	S. No - 2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
600	Page No 87 / 7.6. Primary Storage	S. No -7	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system	Refer corrigendum
601	Page No 98 / 7.6. Primary Storage	S. No -7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer corrigendum
602	Page 93 / 7.9. SAN switch	S. No - 3	Switch SFP's should support the 4/8/16/32 Gbps of host connection.	Refer corrigendum
603	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 32 of Table	Infrastructure Hosting Services Racks	Refer corrigendum
604	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 32 of Table	Infrastructure Hosting Services Racks	Refer corrigendum
605	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 31 of Table	Cross Connect of 100 Mbps	Refer corrigendum
606	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 32 of Table	Infrastructure Hosting Services Racks	Refer corrigendum
607	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 32 of Table	Infrastructure Hosting Services Racks	Refer corrigendum
608	Page No. 33 /3.32. Evaluation of Technical Bids/Annexure I	Page No. 33 /3.32. Evaluation of Technical Bids/Annexure I	The temperature in the server hall should be maintained at 20 +/- 5 deg C	Refer corrigendum
609	Page No. 167/ Table C	Point 2 of table		Refer corrigendum
610	Page No. 167/ Table C	Point 1 of table		Refer corrigendum
611	Page No. 169/ Table E	Point 1 of table		Refer corrigendum
612	Page No. 169/ Table E	Point 3 of table		Refer corrigendum
613	Page No. 78/6.9. Minimum Bill of material for DC, DR and NDR Site	Point No. 32 of Table	Infrastructure Hosting Services Racks	Refer corrigendum
614	Page no. 57/ Section V Scope of work	Point No 6.1 (r)	Items being used in OPEX model and are dedicated to Bank, Nainital Bank Ltd can take ownership of the same after paying Net Present Value (NPV) of the respective item.	Refer corrigendum
615	Page 32 - Award of Contract	Clauses No 3.38	THE NAINITAL BANK LTD. may, at any time, terminate the contract by giving written notice of -30- days to the vendor without any compensation, if the vendor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to THE NAINITAL BANK LTD. If at any point during the contract, if the vendor fails to, deliver as per the tender terms and conditions or any other reason amounting to disruption in service, the Termination and Exit Management clause to be incorporated in contract, will be invoked.	Refer corrigendum
616	Page 156- Finacial Bid Format	11. Section VI Terms & Condition point no. 4	CAPEX & OPEX ratio shall be reasonable and realistic, a bid may not be considered for Final Evaluation if the total CAPEX Value happens to be more than 60% of the overall bid value	Refer corrigendum
617	Page No. -84 /7.4. Access, Staging Switch	S. no - 30	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer corrigendum

618	Page 163 / 11. Section VI : Financial Bid Format	Table D BOQ – NDR (Capex)	S. No 2 - SAN Switch	As per RFP
619	Page No. 116 / 8.5 Endpoint Security	Point no 64 .Endpoint Security	Solution should provide the capability to log administrative activities in the Management console. Administrative activities that are logged in the Management console include, changes to policies, deployment of policies, agent override activities, agent termination, and agent uninstall key generation	As per RFP
620	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	As per RFP
621	Page No. 112/ 8.5 Endpoint Security	Endpoint Security	Suggestion	As per RFP
622	Page No. 111 Point 5/ 8.4 HIPS	HIPS	Verify success or failure of an server	Refer corrigendum
623	Page No. 111 Point 8/ 8.4 HIPS	HIPS	Well suited for encrypted and switched environments	Refer corrigendum
624	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
625	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	Refer corrigendum
626	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
627	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
628	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
629	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
630	Page No. 22 Point 12/ 3.31. Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
631	Page no 17 / 3.31. Evaluation of Eligibility Criteria	3.31. Evaluation of Eligibility Criteria	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
632	Page No -212 / Table B -BOQ-DC-DR(OPEX)	Sr no 10	Privileged Identity Management	No of users
633	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
634	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	Refer corrigendum
635	Page No. 111/ 8.4 HIPS	HIPS	Suggestion	As per RFP
636	Page 57 / 6. Section V: Scope of Work	b. Phase 2 of IT Infrastructure includes:	vii. Ship one copy of monthly data out to The Nainital Bank's Head Office at Nainital or RDC Haldwani or any preferred location decided by the Bank.	Refer corrigendum
637	Page No 71 / 6.8. Application sizing requirements	Important Points for sizing considerations and solution:	Oracle Database shall use for application modules mentioned in above table. Proposed Virtualization software must be supported by Oracle as Hard Partitioning to optimize/Limit Oracle database licenses on x86 server platform.	Refer corrigendum
638	43	4.4. Payment Schedule	<p>1 Mobilization advance 5% payment of CAPEX cost for Hardware's + Software's for infra under Phase-I will be paid as mobilization advance.</p> <p>2 Delivery of all ICT infrastructure components (Hardware's + Software's for Phase- 1) 40% payment of total CAPEX cost for Hardware's + Software's under Phase-I.</p> <p>3 Installation, configuration, commissioning of all ICT Infrastructure and handover it to application provider (Phase I) 30% payment of CAPEX cost shall be made after Installation, configuration, commissioning of components covered under Phase-I and handover it to CBS application provider.</p> <p>4 Infra- One time Charges" 50% after completion of Phase 1</p> <p>40% after installation of Phase 2"</p> <p>5 Telecom – One Time Cost*" 100% of OTC of all sites (except pilot sites) covered under Phase-I will be paid on commissioning of all links at respective sites.</p> <p>100% of OTC of 20 pilot sites will paid on commissioning of links at respective pilot sites.</p> <p>50% of OTC of sites in Phase 2 on Installation and commissioning of link of remaining sites on pro-rata basis.</p> <p>25% of OTC of sites in Phase 2 on successful simulation run of CBS application by application service provider and Bank team from all locations."</p> <p>6 On successful Go- LIVE of DC, DR, NDR and all sites along with operationalization of all application and interfaces. Remaining 25% of CAPEX. Remaining 10% of Infra OTC. Remaining 25% of telecom OTC of remaining sites of Phase 2.</p> <p>7 Telecom charges(link charges) during application implementation phase till GO-LIVE* Monthly in arrears after successful commissioning of links of respective sites as per Table F</p>	As per RFP
639	Section VI : Financial Bid Format	Section VI : Financial Bid Format	Serial No. 11 - AMC for Capex for 6th and 7th Year Table G (DC-DR-NDR)	Refer corrigendum

640	Section VI : Financial Bid Format	Section VI : Financial Bid Format	Serial No. - Managed Services including Management and monitoring tools DC-DR-NDR (for 5 years)	Refer Corrigendum
641	Page no. 57/ Section V Scope of work	6.1 (r)	Items being used in OPEX model and are dedicated to Bank, Nainital Bank Ltd can take ownership of the same after paying Net Present Value (NPV) of the respective item.	Refer Corrigendum
642	Page 32-33- Award of Contract	3.38	THE NAINITAL BANK LTD. may, at any time, terminate the contract by giving written notice of -30- days to the vendor without any compensation, if the vendor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to THE NAINITAL BANK LTD. If at any point during the contract, if the vendor fails to, deliver as per the tender terms and conditions or any other reason amounting to disruption in service, the Termination and Exit Management clause to be incorporated in contract, will be invoked.	Refer Corrigendum
643	Page 156- Finacial Bid Format	11. Section VI Terms & Condition point no. 4	CAPEX & OPEX ratio shall be reasonable and realistic, a bid may not be considered for Final Evaluation if the total CAPEX Value happens to be more than 60% of the overall bid value	Refer Corrigendum
644	3.31. Evaluation of Eligibility Criteria B1 Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems/ products are quoted or if the OEM is bidding directly Page No. 18	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
645	3.31. Evaluation of Eligibility Criteria B1 Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems / products are quoted or if the OEM is bidding directly Page No. 18	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
646	8.3 Server Load Balancer with WAF Page No. 107	2 d)	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
647	8.3 Server Load Balancer with WAF Page No. 108	6	The solution should provide Application performance monitoring through detailed analytics at a PER APPLICATION level.	As per RFP
648	8.3 Server Load Balancer with WAF Page No. 107		New Clause Request	As per RFP
649	Page 107		Should support 100000 Layer 7 and Layer 4 connections per second	As per RFP
650	Page 107		System must support 2K SSL TPS for 2K bit key and 5K SSL TPS (EC)	As per RFP
651	Page 110		System supports hardware based SSL acceleration OR standard SSL functionality built into the latest CPU's from Intel and AMD SSL which include stack optimizations and optimized instruction set code like RSAX, AVX,AVX-2, MULX, ADCX, ADOX, RORX, and RDSEED	Refer corrigendum
652	Page 111		Support for ModSecurity Core Rule sets	As per RFP
653			As Gartner report is asked for all other solutions, we suggest Bank to add this clause	As per RFP
654	Page-17/ B1	1	Eligibility Criteria / Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
655	Page-17/ B1	2	Eligibility Criteria / Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
656	Page-22/ D	12	Eligibility Criteria / OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
657	Page-59/ 6.1	1	Detailed Scope of Work / Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant.	Refer corrigendum

658	Page-121/ 9.1	6	SDWAN / The bidder should provide NMS (hardware and software) tool and configure the same to monitor and manage all the transport media terminated on the CPE.	Refer corrigendum
659	Page-121 / 9.1	7	SDWAN / The NMS tool should have capability to monitor / manage 500 links (MPLS/Internet etc.) during the period of contract	As per RFP
660	Section 7.6	2	Proposed storage must be a All Flash Array unified storage system supporting both Scale- up and Scale-out technology. Designed to take advantage of the Flash/SSD for high performance, reliability, energy efficiency and consistent performance.	As per RFP
661	Section 7.6	3	Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum
662	Section 7.6	4	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the	Refer Corrigendum
663	Section 7.6	5	Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB, 15.3TB and 30.6TB SSD drives.	Refer Corrigendum
664	Section 7.6	8	Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
665	Section 7.6	9	The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. if the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
666	Section 7.6	11	Backend ports should be minimum 4 x 12Gbps SAS Ports	As per RFP
667	Section 7.6	16	Proposed solution should support 3 way DR and required licenses have to be supplied	As per RFP
668	Section 7.6	18	Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
669	Section 7.6	19	Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication, compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	Refer corrigendum
670	Section 7.6	22	Proposed array should include license for Sync and Async Replication, Thin provisioning, Snapshots, Clones. Also should include application aware backup for Oracle, SQL, SAP, Exchange, SharePoint, VMware, Hyper-V etc. All the required or necessary licenses must be perpetual and provided for the usable capacity of the storage including license for management module.	Refer corrigendum
671	7.7. Secondary Storage	2	The Storage system must have at least two controllers running in dual active (active-active) mode with automatic failover to each other in case if one controller fails	As per RFP
672	7.7. Secondary Storage	3	The system should have minimum 64 GB cache memory across the two controllers with an ability to protect data on cache if there is a controller failure or power outage. The cache on the storage should have 72hrs or more battery backup (OR) should have de-staging capability to either flash/disk.	As per RFP
673	7.7. Secondary Storage	4	The proposed system should not exceed the disk size of 4TB per disk and must support intermixing of SSD , SAS and SATA drives to meet the capacity and performance requirements of the applications.	Refer corrigendum
674	7.7. Secondary Storage	7	80 TB usable capacity should be configured with NL-SAS/SATA drives on RAID 6. The storage should provision with at least 2 host spares. Storage should be scalable upto 200TB usable capacity using NL-SAS/SATA drives.	As per RFP

675	7.7. Secondary Storage	9	The proposed storage system should have minimum, 2 numbers of 12 Gbps backend SAS ports, and 4 x 16Gbps FC and 4x10Gb Ethernet Ports	As per RFP
676	7.7. Secondary Storage		Suggestion	As per RFP
677	7.2. Rack Server Specifications	20	a) The server should provide cryptographic firmware updates b) Server should provide Anti-counterfeit and hardware policy based security c) The server should provide Hardware root of trust	Refer Corrigendum
678	7.2. Rack Server Specifications	18	Suggestion	As per RFP
679	3.31. Evaluation of Eligibility Criteria		4. OEM must ensure that the Servers to be supplied will not be End of Sale in next 3 years minimum (from RFP date) and End of Support in next 7 years from End of Sale.	Refer Corrigendum
680	7.8 Tape Library	1	Architecture & Consumables: The Tape Library Shall be offered with Minimum of Two LTO-8 FC tape drive and minimum of 25 slots along with 10 LTO8 DATA & 2 Cleaning Cartridges with Redundant Power Supply.	As per RFP
681	7.8 Tape Library	2	Data Transfer Rate: Offered LTO-8 drive shall support 300MB/sec in Native mode.	As per RFP
682	7.8 Tape Library	3	Future Scalability: Tape Library shall be scalable to FOUR number of LTO-8 drives either in the same frame or by stacking of Expansion modules & Drives	As per RFP
683	7.8 Tape Library	4	Encryption Support: The offered tape library must support encryption and the encrypted keys should be managed by the ISV or the Tape library i.e. to keep the keys safe and secure, The Encryption keys management must be with Industry Standard methods either AME (Application managed) or LME (Library Managed).	As per RFP
684	7.8 Tape Library	8	2) Shall be rack mountable. 3) Warranty with Back to back Onsite Warranty from OEM. 4) Tape library shall support Barcode reader Min. 3 configurable Mail slots	As per RFP
685	Page 23 / Section 3.31 Evaluation of Eligibility Criteria	B1 - Below clause Applicable for the Original Equipment Manufacturer (OEM) whose systems / products are quoted or if the OEM is bidding directly	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
686	5	3.1.1	Compute and Storage related to Banking Application (Bank will purchase this hardware, OS, Middleware as CAPEX and will be 'colocated' at Bidder's proposed DC Delhi-NCR, near DR (within 25 KM radius from proposed DC) and DR Site in different seismic zone from DC.)	Refer Corrigendum
687	16	3.31 D 11	Bidder should have received following certification • ISO 9001:2015. • ISO/ IEC 20000:2011 (or later) • ISO 27001 (or later) or 'BS7799 - 3' • PCI-DSS	Refer Corrigendum
688	24	3.32 4	Bidder must have experience in executing SD-WAN Project of minimum 100 sites in each project: 2.5 mark for each SD-WAN Project where minimum 100 sites connectivity executed by bidder (Maximum 2 Projects)	As per RFP
689	31	3.34	The Combined Final Score contains 70% weightage for technical evaluation and 30% weightage for commercial evaluation	As per RFP
690	19	3.21	Consortium is not allowed.	As per RFP
691	23	Sl.No. 1 of B1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
692	23	Sl.No. 2 of B1	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum

693	23	Sl. No. 1 of B2	Must have registered a turnover of 200 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
694	23	Sl. No. 2 of B2	Must be net profit making entity (from Indian operations only) continuously for the last three years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
695	35	3.34 Final Bid Evaluation	The evaluation of the tender is based on QCBS (Quality and Cost Based Selection). The Combined Final Score contains 70% weightage for technical evaluation and 30% weightage for commercial evaluation.	As per RFP
696	48	Sl. No. 1 of 4.4	5% payment of CAPEX cost for Hardware's + Software's for infra under Phase-I will be paid as mobilization advance.	As per RFP
697	48	Sl.No. 2 of 4.4	40% payment of total CAPEX cost for Hardware's + Software's under Phase-I.	As per RFP
698	49	Sl. No.6 of 4.4	Remaining 25% of CAPEX.	As per RFP
699	7	1.1	Last date of receiving written request for clarifications before the pre-bid meeting	As per RFP
700	62 -CPE Device	b)	b) Additionally, the bidder should keep at-least 10 Nos. CPEs/SDWAN equipment at Bank's site viz. HO/RO/BO as suggested by Bank as cold standby for backup for nearby branches.	As per RFP
701	62 -CPE Device	d)	d) The SDWAN CPE Solution providing OEMs must be listed as 'Leaders', 'Challengers' or 'Visionaries' in Gartner's report "Magic Quadrant for WAN Edge Infrastructure"	Refer corrigendum
702	63-CPE Device	h)	h) The SDWAN centralised controller should be hosted within India, in HA mode and should be in different geo-seismic zones.	Refer corrigendum
703	63-Management	Generic	The management does not talk about Application based Quality of Experience which is an important aspect of SDWAN solution. How the links will shift in case of an application related issue is not clear.	As per RFP
704	88-7.3 Core Switch	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
705	83-7.3 Core Switch	2	The switch should support minimum 2Tbps bandwidth	As per RFP
706	83-7.3 Core Switch	8	The switch should support 16000 MAC addresses	As per RFP
707	84-7.3 Core Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
708	84-7.3 Core Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
709	84-7.3 Core Switch	32	Switch support MPLS segment routing.	Refer Corrigendum
710	84-7.4 Access, Staging Switch	1	Rack Mountable: Mountable in standard 19 inch rack. Switch should be supplied 24 port copper 10G and 2nos. 10G multimode fibre ports for uplink.	As per RFP
711	85-7.4 Access, Staging Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
712	85-7.4 Access, Staging Switch	9	MAC Address security and should support minimum 5000 MAC addresses	As per RFP
713	86-7.4 Access, Staging Switch	30	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
714	86-7.4 Access, Staging Switch	32	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
715	86-7.5 Management Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
716	86-7.5 Management Switch	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
717	86-7.5 Management Switch	9	MAC Address security and should support minimum 5000 MAC addresses	As per RFP
718	86-7.5 Management Switch	16	OSPF v2, OSPFv3	As per RFP
719	101-8.1 NGFW	7	Solution shall provide features of Firewall, IPS, URL filtering, Anti-Bot, Anti Malware & Zero-day Threat Protection, VPN and Application Control on same platform	As per RFP
720	101-8.1 NGFW	8	Threat Prevention throughput should be 7 Gbps measured on Mix Traffic/ Enterprise Mix traffic	As per RFP
721	101-8.1 NGFW	9	Minimum IPsec VPN throughput – 10 Gbps	As per RFP
722	101-8.1 NGFW	11	Concurrent Sessions – 8,000,000	As per RFP
723	101-8.1 NGFW	12	Connections/Sessions per sec – 300,000	As per RFP
724	102-8.1 NGFW	21	The proposed firewall shall have on box Anti- Virus/Malware, Anti Spyware signatures and should have minimum signatures update window of 600 seconds.	Refer Corrigendum
725	102-8.1 NGFW	24	This should be a cloud base unknown malware analysis service with guaranteed protection signature delivery	Refer Corrigendum
726	102-8.1 NGFW	25	Advance unknown malware analysis engine should be capable of machine learning with static analysis and dynamic analysis engine	As per RFP
727	102-8.1 NGFW	26	on premise malware analysis appliance should be able to perform dynamic threat analysis on such as EXEs, DLLs, ZIP files, PDF documents, Office Documents, Web pages that include high-risk embedded content like JavaScript, Adobe Flash files	As per RFP

728	103-8.1 NGFW	40	The proposed firewall's SSL VPN shall support the following authentication protocols	As per RFP
729	103-8.1 NGFW	47	The device or management server shall be able to keep logs for minimum 1 year or store logs up to 4 TB.	As per RFP
730	105-8.1 Anti-APT Specifications	25	Minimum number of interfaces - 4x GE & 4 x GE SFP	As per RFP, SFP ports are required to connect with Proposed switches
731	106-8.1 Anti-APT Specifications	26	Number of VM's should be atleast 12	Refer Corrigendum
732	106-8.2 Internal Firewall	6	Minimum NGFW throughput 4 Gbps	As per RFP
733	121-9.1 SDWAN	2	The SDWAN CPE Solution providing OEMs must be listed as 'Leaders', 'Challengers' or 'Visionaries' in Gartner's report "Magic Quadrant for WAN Edge Infrastructure"	Refer Corrigendum
734	121-9.1 SDWAN	6	The bidder should provide NMS (hardware and software) tool and configure the same to monitor and manage all the transport media terminated on the CPE.	Refer Corrigendum
735	121-9.1 SDWAN	7	The NMS tool should have capability to monitor / manage 500 links (MPLS/Internet etc.) during the period of contract	As per RFP
736	3.31. Evaluation of Eligibility Criteria Page 18	1	Must have registered a turnover of 200 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
737	3.31. Evaluation of Eligibility Criteria Page 18	2	Must be net profit making entity (from Indian operations only) continuously for the last three years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
738	3.31. Evaluation of Eligibility Criteria page 21	8	The bidder must have on its payrolls at least 50 technically qualified professionals (BE/B.Tech/MCA or equivalent) in the ICT domains i.e. Cyber security, networking, system software, system integration, storage etc. who have prior experience in providing the Data Center Infrastructure and maintenance services as on date of release of this RFP.	Refer Corrigendum
739	3.31. Evaluation of Eligibility Criteria page 21	7	The proposed colocation Data Centre/DR should be at least Tier III or above	Refer Corrigendum
740	3.31. Evaluation of Eligibility Criteria	21	Bidder should have received following certification ISO 9001:2015. ISO/ IEC 20000:2011 (or later) ISO 27001 (or later) or 'BS7799 - 3' PCI-DSS	Refer Corrigendum
741	6.1. Detailed Scope of Work Page 58	b. Phase 2 of IT Infrastructure includes: iv.	All the system logs should be properly stored for the period of 6 months & archived for future analysis with retention of 10 years. These Log Sources should be enabled for syncing at SOC Location of THE NAINITAL BANK LTD as per Bank guidelines.	Refer Corrigendum
742	6.1. Detailed Scope of Work Page 58	b. Phase 2 of IT Infrastructure includes: vi.	Disk based backup for 15 daily backups, 8 weekly backups, and 13 monthly and 11 yearly backups.	Refer Corrigendum
743	6.1. Detailed Scope of Work Page 58	b. Phase 2 of IT Infrastructure includes: vii.	Ship one copy of monthly data out to The Nainital Bank's Head Office at Nainital or RDC Haldwani or any preferred location decided by the Bank.	Refer Corrigendum
744	as per RFP Page 59 (ITSM Software)	i	Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant.	Refer Corrigendum
745	6.1. Detailed Scope of Work Page 59	l	Bidder has to provide the antivirus servers and patch management servers at DR Location for DC, DR, NDR and end users.	Refer Corrigendum
746	44	4.1. Stipulated Time Schedule	Delivery of all ICT infrastructure components (all requisite Hardware+ Software) for all sites as per Phase -I (refer SOW Point -6.1) T + 60 Days	As per RFP
747	44	4.1. Stipulated Time Schedule	If the bidder fails to deliver any or all goods or perform services within stipulated time schedule, the Bank shall, without prejudice to its other remedies under the rate contract, deduct penalty at the rate of 0.3% of the order value of undelivered equipment / system for per Day of delay, as late delivery charges until actual delivery of the equipment subject to a maximum of 5%.	As per RFP
748	44	4.1. Stipulated Time Schedule	Installation, configuration and commissioning of all ICT infrastructure components (hardware, OS, DB) as part of Phase 1. The infra should be ready to handover to CBS application provider to start implementation of application software.	As per RFP
749	45	Final Acceptance Test (FAT)	T+240 Days	As per RFP
750	48	4.4. Payment Schedule	Complete clause	Will be shared with succesful bidder.
751	66	Telecom - Scope of Work	Monitoring of links at all the locations/offices. Call logging, follow-up and escalation for restoration of failed links with respective service providers.	Bidder needs to monitor the links from their own NOC. Bank will have additional access of same.
752	68	Management	g) For new locations bidder will not take more than 3 weeks for at-least 1 link commissioning and maximum additional 2 weeks for backup link.	Refer Corrigendum

753	68	Link Acceptance	a) "Site Survey, "Installation Certificate" and "Acceptance report for successful commissioning" must be maintained by the selected bidder for future references. The formats would be finalized in consultation with the Bank. This shall be onetime activity.	As per RFP
754	69	Uptime Calculation - Telecom	Complete clause	As per RFP
755	79	Technical Support	For Complete SOW	Refer Corrigendum
756	51	4.6. Service Level Agreements*	Total Service link failure of the Telecom Setup at branch except 3G, 4G >= 98.0% to < 99.0% 0.15% of the monthly bill of Telecom services. Penalty amount shall be deducted from next month bill payment.	As per RFP
757		General	SLA Exemption	Will be covered during contract signing with succesful bidder
758		General	Not Feasible	As per RFP
759		General	Site access and permission	Permission shall be granted by bank on written request from bidder
760		General	Power and earthing	Power and space shall be provided by bank at branch locations
761		General	Site readiness	As per RFP
762		General	Acceptance criteria	As per RFP
763		General	ROW Permissions	As per RFP
764		General	First level troubleshooting	As per RFP
765		General	SLA calculation	As per RFP
766		General	Roof Right	Yes
767	42	4, Section III	General Conditions of Contract and Service Levels Agreement – Force Majeure	As per RFP
768	43	4, Section III	General Conditions of Contract and Service Levels Agreement – Arbitration	Refer Corrigendum
769	Section 6.7, Page 67	Security Team of the Bidders should operate under the guidelines provided by Bank and Designated SOC for governance as and when it would be operational. All Security controls proposed in the RFP should be made available for integration with Bank's existing SoC Setup. Bidder's security team should adhere with the instructions given by Bank's CISO for smooth integration of proposed security tools with the Bank's existing SIEM tool.		Bidder has to make logs available generated by DC, DR & NDR devices. Bidder has to coordinate with Bank's existing SOC service provider for log integration.
770	Section 6.9, Page 73	Vulnerability Assessment Service		As per RFP
771	Section 6.9, Page 73	Penetration Testing Service		As per RFP
772	Section 6.16, Page 80	Provide security event correlation		Bidder has to make logs available generated by DC, DR & NDR devices. Bidder has to coordinate with Bank's existing SOC service provider for log integration.
773	Section 8.1, Page 103	Anti-APT specifications		As per RFP
774	48/ 4.4	4.4.2	Delivery of all ICT infrastructure components (Hardware's + Software's for Phase 1) 40% payment of total CAPEX cost for Hardware's + Software's under Phase-I.	As per RFP
775	48/4.4	4.4.3	Installation, configuration, commissioning of all ICT Infrastructure and handover it to application provider (Phase I) 30% payment of CAPEX cost shall be made after Installation, configuration, commissioning of components covered under Phase-I and handover it to CBS application provider	As per RFP
776	49/4.4	4.4.4	Infra- One time Charges 50% after completion of Phase 1 40% after installation of Phase 2	As per RFP

777	51/4.6	4.6.1	Total Service availability of the ICT Setup (Complete HA uptime) 0.50% of the monthly bill of ICT managed services. Penalty amount shall be deducted from next month bill payment .	As per RFP
778	51/4.6	4.6.1	Total Service availability of the ICT Setup (Complete HA uptime) 1.0% of the monthly bill of ICT managed services. Penalty amount shall be deducted from next month bill payment.	As per RFP
779	51/4.6	4.6.1	Total Service availability of the ICT Setup (Complete HA uptime) 5.0% of the monthly bill of ICT managed services. Penalty amount shall be deducted from next month bill payment.	As per RFP
780	161	11	Financial Bid Format Total contract value (Excluding GST/Other taxes) of all Amortized, subscriptions Services, Managed Services and telecom Opex (OPEX) should be further divided by the number of bank's branch/offices on per month basis. (Billing will be monthly). Minimum Branch will be 145.	As per RFP
781	Detailed Scope of Work	The selected bidder shall ensure an uptime more than 99.50% on a monthly basis for period of five years		As per RFP Pg. 64
782	Submission of MIS Reports	The Bidder shall submit the MIS reports as defined in scope of work	All MIS Reports for the previous Month shall be submitted by the 5th of the next Month	As per RFP
783	High level ICT infrastructure architecture	Centralized Management and monitoring tools		As per RFP
784	Telecom Locations	MPLS @DR		As per RFP
785	Telecom Locations	ILL @ DR		As per RFP
786	Telecom Locations	P2P link between DC and DR		Refer Corrigendum
787	Telecom Locations	Internet Lease Line @DC with 1 Gig DDoS		Refer Corrigendum
788	Phase 2 of IT Infrastructure , point iv	Log server with six months online retention and ten years archival retention		DR log server is covered in Server Type 4
789	Telecom - Scope of Work			Query is not clear
790	Telecom - Scope of Work			Refer corrigendum
791	Telecom - Scope of Work			As per RFP
792	Last mile Links	The preference of last miles for each of the MPLS VPN links at location site is as below: 1-Wireline Copper/Fibre – Atleast 50% of existing links , 2-Wireless (RF)/WiMax , 3 -VSAT		As per RFP
793	Last mile Links	3G\4G is not allowed but may allow by bank for backup links.		As per RFP
794	NOC\SOC			One SPOC will sit at Bank premises as mentioned in corrigendum. For DC/DR NOC/SOC bidder has to decide
795	BoQ for DC DR and NDR	End point licenses 1500 at DC		As per RFP
796	Additional point	Tripartite Agreement for Bandwidth		Links ownership and SLA shall remain and be maintained by bidder
797	Additional point	Physical Submission of bids		As per RFP

798	101	7.11. Backup Software Clause No. 2	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs and Mobile devices like Laptops / Tabs / Phone.	As per RFP
799	101	7.11. Backup Software Clause No. 5	Backup Software must support GUI with centralized management / Single interface for management of all backup and archival (file system and E-mail) activities across physical servers, VMs. Branches and end point backup is not in scope.	As per RFP
800	101	7.11. Backup Software Clause No. 7	For immediate recovery Bare metal recovery option should be considered for servers & desktops.	As per RFP
801	101	7.11. Backup Software Clause No. 9	The proposed solution should have ability to protect all mount paths associated with disk libraries configured from a Backup/Media Server against Ransomware attacks.	As per RFP
802	102	7.11. Backup Software Clause No. 21	The software should be able to use Network file share/block storage and native file server volumes for keeping the backup copies.	As per RFP
803	101	7.11. Backup Software Clause No. 22	It should have full support for backing up virtual servers (image level) on various hypervisors like Hyper - V, ESXi, RHEV, OVM, Acropolis, Citrix, Fusion.	As per RFP
804	103	7.11. Backup Software Clause No. 29	Should support software based de-duplication to support any storage system, cloud repository and object storage as de-duplicated disk target. Based on policy backup software should be able to move data to a tape library automatically. The proposed backup solution should support snapshot based backup from various vendors such as Hyper flex, HP 3PAR, EVA, Fujitsu Eternus, Oracle ZFS, Infinidat, Solidfire, Huawei, Tintri, etc.	Refer corrigendum
805	103	7.11. Backup Software Clause No. 31	Backup software should have the ability to archive data and create a single repository for backup and archive for space efficiency and easier data management.	Refer corrigendum
806	103	7.11. Backup Software Clause No. 33	It should support the following algorithms and provide better security in deployment across sites - BLOWFISH, GOST, Serpent, AES, Twofish, 3-DES.	Refer corrigendum
807		7.11. Backup Software Clause No. 35	Proposed backup software should be able to take backup and restore data at DC and DR both sites. If any license or server required for the same to be provided by the bidder.	Refer corrigendum
808	95	7.7. Secondary Storage Secondary	General Purpose Secondary Storage specification	As per RFP
809	87/ 7.2 Rack Server Specifications	5	Min 1 PCI-e (Express) 16 x free slot after catering all the requirements	Refer Corrigendum
810	87/ 7.2 Rack Server Specifications	8	SAS/SATA/SSD Raid controller capable of providing RAID 0, 1, 5 configurations	Refer Corrigendum
811	88/ / 7.2 Rack Server Specifications	20	b) Server should provide Anti-counterfeit and hardware policy based security	Refer Corrigendum
812	88/7.3 Core Switch	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
813	88/7.3 Core Switch	2	The switch should support minimum 2Tbps bandwidth	As per RFP
814	88/7.3 Core Switch	14	Dynamic Routing protocol support like OSPF, VXLAN, BGP, EVPN, ISIS or MPLS, VRFs, multicast protocols - PIM-SM, SSM, MSDP	Refer Corrigendum
815	89/7.3 Core Switch	29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
816	89/7.3 Core Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
817	89/7.3 Core Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
818	89/7.3 Core Switch	33	Switch support MPLS segment routing.	Refer Corrigendum
819	85/ 7.4 Access, Staging Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
820	85/ 7.4 Access, Staging Switch	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	Refer Corrigendum
821	85/ 7.4 Access, Staging Switch	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
822	86/ 7.4 Access, Staging Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
823	86/ 7.4 Access, Staging Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
824	86/ 7.4 Access, Staging Switch	33	Switch support MPLS segment routing.	As per RFP
825	86/ 7.5 Management Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
826	86/ 7.5 Management Switch	4	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
827	86/ 7.5 Management Switch	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
828	86/ 7.5 Management Switch	16	OSPF v2, OSPFv3	As per RFP
829	5/ 9.1 SD-WAN	5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer Corrigendum

830	Pg#21 (Point #9)	3.31. (Evaluation of Eligibility Criteria)	Data Center Location of Service Provider- The SP should have Data Center in Delhi/NCR and Near DR between 5 to 25 Km from proposed DC and DR at different seismic zone other than Delhi/NCR within India.	As per RFP
831	Pg#24 (Point #5)	3.32. (Evaluation of Technical Bids)	Bidders Experience in terms of its ICT Offerings: The bidder should currently be providing - i) Data Centre Colocation/Hosting Services in its Rated 3/TIA 942 Data Centres in its own Data Centre Colocation/Hosting Services facility ii) System Integration (SI) Services iii) Telecom Services (should have ISP/NLD/ILD/Unified License) iv) Managed Services a) Bidder's organization directly offering all the above mentioned 4 services to its end customers.:(10 Marks)	As per RFP
832	Pg#25 (Point # 6) Location feasibility	Technical Scoring	Bidder's should provide Software Defined (SD) ready network with minimum : (excluding 3G and 4G)	As per RFP
833	Page No 18 - Point No 1	3.31 Evaluation of Eligibility Criteria	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
834	Page No 112 - Point No 1(D)	8.3 - Server Load Balancer with WAF	Must be an appliance with Hardened OS OR any Software based solution running on Industry grade server which supports Multitenancy and Virtual Contexts	As per RFP
835	Page No 112 - Point No 2(D)	8.3 - Server Load Balancer with WAF	The system should support Multiple Context creation and Multitenancy through the use of virtualization technologies like containerization, standard hypervisors etc.	As per RFP
836	Page No 112 - Point No 2(C)	8.3 - Server Load Balancer with WAF	System must support 2K SSL TPS for 2K bit key and 5K SSL TPS (EC)	As per RFP
837	Page No 113 - Point No 3	8.3 - Server Load Balancer with WAF	A SINGLE central controller should be capable of managing a HETEROGENOUS cloud environment comprising of different cloud and virtualization platforms	As per RFP
838	Page No 113 - Point No 4	8.3 - Server Load Balancer with WAF	The proposed solution should have a Central Management station which support Auto-Discovery, Integration and Orchestration of the underlying cloud on which it has been deployed	Refer corrigendum
839	Page No 113 - Point No 16	8.3 - Server Load Balancer with WAF	The Load Balancer should support Day 0 provisioning using Open interfaces for e.g. REST based provisioning of Network Interfaces and Application and associated policies	As per RFP
840	Page No 115 - Point No 40	8.3 - Server Load Balancer with WAF	System supports hardware based SSL acceleration OR standard SSL functionality built into the latest CPU's from Intel and AMD SSL which include stack optimizations and optimized instruction set code like RSAX, AVX,AVX-2, MULX, ADCX, ADOX, RORX, and RDSEED	Refer corrigendum
841	Page No 115 - Point No 50	8.3 - Server Load Balancer with WAF	System supports global redirection based on DNS	As per RFP
842		8.3 - Server Load Balancer with WAF	New Clause addition request in Load Balancer	As per RFP
843		8.3 - Server Load Balancer with WAF	New Clause Addition Request in load Balancer	As per RFP
844	New Solution		Request to add SSL VPN Specifications as a separate solution	As per RFP
845	New Solution		Request to add SSL Interceptor as a solution for SSL Decryption	As per RFP
846	New Solution		Request to add DLP as a solution for Data Leakage	As per RFP
847	87/7.6 Primary Storage Specification	1	Proposed storage must be a All Flash Array unified storage system supporting both Scale- up and Scale-out technology. Designed to take advantage of the Flash/SSD for high performance, reliability, energy efficiency and	As per RFP
848	87/7.6 Primary Storage Specification	3	Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum
849	87/7.6 Primary Storage Specification	4	The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the same should be quoted on day one for entire scable capacity.	Refer Corrigendum
850	88/7.6 Primary Storage Specification	5	Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB,15.3TB and 30.6TB SSD drives.	Refer Corrigendum
851	88/7.6 Primary Storage Specification	7	The proposed storage shall be supplied with 20TB usable capacity on RAID6 or equivalent using SSD/Flash	Refer Corrigendum

852	88/7.6 Primary Storage Specification	8	Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
853	88/7.6 Primary Storage Specification	9	The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. If the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
854	89/7.6 Primary Storage Specification	18	Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
855	89/7.6 Primary Storage Specification	19	Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication, compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	Refer corrigendum
856	90/7.6 Primary Storage Specification	22	Proposed array should include license for Sync and Async Replication, Thin provisioning, Snapshots, Clones. Also should include application aware backup for Oracle, SQL, SAP, Exchange, SharePoint, VMware, Hyper-V etc. All the required or necessary licenses must be perpetual and provided for the usable capacity of the storage including license for management module.	Refer corrigendum
857	91/7.7 Storage Secondary Specification	7	80 TB usable capacity should be configured with NL-SAS/SATA drives on RAID 6. The storage should provision with at least 2 host spares. Storage should be scalable upto 200TB usable capacity using NL-SAS/SATA drives.	As per RFP
858	87/7.2 Rack Server Specifications	5	Min 1 PCI-e (Express) 16 x free slot after catering all the requirements	Refer Corrigendum
859	87/7.2 Rack Server Specifications	8	SAS/SATA/SSD Raid controller capable of providing RAID 0, 1, 5 configurations	Refer Corrigendum
860	88/7.2 Rack Server Specifications	20	b) Server should provide Anti-counterfeit and hardware policy based security	Refer Corrigendum
861	88/7.3 Core Switch	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refer Corrigendum
862	88/7.3 Core Switch	2	The switch should support minimum 2Tbps bandwidth	As per RFP
863	88/7.3 Core Switch	14	Dynamic Routing protocol support like OSPF, VXLAN, BGP, EVPN, ISIS or MPLS, VRFs, multicast protocols - PIM-SM, SSM, MSDP	Refer Corrigendum
864	89/7.3 Core Switch	29	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 2 years	Refer Corrigendum
865	89/7.3 Core Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
866	89/7.3 Core Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
867	89/7.3 Core Switch	33	Switch support MPLS segment routing.	Refer Corrigendum
868	85/7.4 Access, Staging Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
869	85/7.4 Access, Staging Switch	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	Refer Corrigendum
870	85/7.4 Access, Staging Switch	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
871	86/7.4 Access, Staging Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
872	86/7.4 Access, Staging Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
873	86/7.4 Access, Staging Switch	33	Switch support MPLS segment routing.	As per RFP
874	86/7.5 Management Switch	3	The switch should support minimum 1Tbps bandwidth	As per RFP
875	86/7.5 Management Switch	4	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
876	86/7.5 Management Switch	12	Configuration management through CLI, GUI based software utility and using web interfaces. GUI tools shall be provided	As per RFP
877	86/7.5 Management Switch	16	OSPF v2, OSPFv3	As per RFP
878	121/9.1 SD-WAN	5	The last mile at branch/ other locations to be WIRED/ WIRELESS -RF/VSAT only. The proposed CPE device should have atleast 2 POE LAN ports.	Refer Corrigendum
879	92/ 7.6	3	Storage Controller:- Storage should be propose with at least dual redundant, hot and swappable controllers for high-availability. Proposed array should be non disruptively scalable to 8 controllers.	Refer Corrigendum

880	92/ 7.6	4	Protocols Supported:- The storage should a true unified storage configured with iSCSI, FC, NFS (NFSv3, NFSv4, NFSv4.1) SMB (SMB2 & SMB3) and pNFS protocols for use with different applications and should support the maximum capacity offered by the storage system. Any additional capacity hardware/software required for the same should be quoted on day one for entire scalable capacity.	Refer Corrigendum
881	93/ 7.6	5	Storage Media:- Offered storage shall support various SSD capacities drives from 960GB, 3.8TB, 7.6TB, 15.3TB and 30.6TB SSD drives.	Refer Corrigendum
882	93/ 7.6	8	Scalability:- Proposed All Flash Array should support minimum 130 drives and should scale up to 2000 Drives by adding controllers	Refer Corrigendum
883	93/ 7.6	9	<u>High Availability:-</u> The unified storage system must be configured to continuously serve data in event of any controller failure. In addition to this, it must also be possible to withstand failure of any 2 disks & 3 disks. System should offer capability for 2 disks and 3 disks data parity protection. if the vendor doesn't support 3 disk data protection then they should provision a hot spare for every 10 disks.	Refer Corrigendum
884	93/ 7.6	13	Storage Performance:- The proposed storage should support 150K IOPS with 70:30 Read/Write ratio for 8KB Block size with response time avg 1ms and should scale upto 200K IOPS with in proposed solution. The vendor needs to submit undertaking from OEM to this effect . The proposed performance should be achieved with deduplication/compression turned on.	As per RFP
885	94/ 7.6	18	Encryption:- Proposed storage should support data encryption at rest at volume level as well as should support data encryption in flight when replicating. License or hardware if required to enable encryption shall be supplied.	As per RFP
886	94/ 7.6	19	WAN optimization:- Proposed solution should support bandwidth optimization features for reducing WAN bandwidth requirement deduplication, compression and encryption. Bidders not having native bandwidth optimization feature should include additional WAN optimization devices	As per RFP
887	94/ 7.6	20	Firmware upgrades:- Firmware should be upgradeable for functionality improvement and enhancements. Must support non-disruptive upgrade.	As per RFP
888	95/ 7.7	3	Cache required:- The system should have minimum 64 GB cache memory across the two controllers with an ability to protect data on cache if there is a controller failure or power outage. The cache on the storage should have 72hrs or more battery backup (OR) should have de-staging capability to either flash/disk.	As per RFP
889	96/ 7.7	9	Front-End and Backend connectivity:- The proposed storage system should have minimum, 2 numbers of 12 Gbps backend SAS ports, and 4 x 16Gbps FC and 4x10Gb Ethernet Ports	As per RFP
890	Page-17, B1	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
891	Page-17, B1	2	Must be net profit making entity (from Indian operations only) for each year in the last three financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer corrigendum
892	Page-22, D	12	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer Corrigendum
893	as per RFP Page 59 (ITSM Software)	1	Implementation and commissioning of ITSM Software for, management, monitoring, helpdesk & ticketing, Asset management, incident, problem and change management as part of the solution in subscription model. Proposed ITSM software should be leader in latest Gartner's magic quadrant.	Refer Corrigendum
894	Page-121, 9.1	6	The bidder should provide NMS (hardware and software) tool and configure the same to monitor and manage all the transport media terminated on the CPE.	Refer Corrigendum
895	Page-121, 9.1	7	The NMS tool should have capability to monitor / manage 500 links (MPLS/Internet etc.) during the period of contract	As per RFP

896	83/ Core switch	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refere Corrigendum
897	84/ Core switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
898	84/ Core switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
899	84/ Core switch	33	Switch support MPLS segment routing.	Refer Corrigendum
900	86/Access, Staging Switch	32	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
901	86/Access, Staging Switch	33	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
902	86/Management Switch	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
903	66	Last mile Links:	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps.	Will be shared with succesful bidder
904	66	Last mile Links:	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps.	3 to 5
905	66	Last mile Links:	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps.	Will be shared with succesful bidder
906	66	Last mile Links:	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps.	Depends on the location
907	66	Last mile Links:	VSAT to be provided should support minimum 128 Kbps downstream with burstable to 192 Kbps and 64 Kbps upstream with burstable to 128 Kbps.	AC power supply
908	Page: 83 / Core Switch	1	The switch should have 48x10Gig ports/slots, populated with 4 nos. of 10 Gig Single Mode transceiver & 12 nos. of 10 Gig multimode transceivers. Should have minimum 20GB DRAM and 40GB Flash.	Refere Corrigendum
909	Page: 84 / Core Switch	31	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
910	Page: 84 / Core Switch	32	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
911	Page: 84 / Core Switch	33	Switch support MPLS segment routing.	Refere Corrigendum
912	Page: 86 / Access, Staging Switch	32	The switch must have minimum 40mb buffer from day 1	Refer Corrigendum
913	Page: 86 / Access, Staging Switch	33	The switch platform should support "MACSec" (802.1AE) in hardware	As per RFP
914	Page: 86 / Management Switch	5	Should support Layer3 protocols: BGP, VXLAN, OSPF, RIP, Static routes, VRFs multicast protocols PIM-SM, SSM, MSDP	As per RFP
915	Page-18 / 3.31. Evaluation of Eligibility Criteria	1	Must have registered a turnover of INR 500 Crores or above (from Indian Operations only) in each year during the last three completed financial years that is financial years - 2017-18, 2018-19 and 2019-20.	Refer Corrigendum
916	Page-22 / 3.31. Evaluation of Eligibility Criteria	12	OEM whose product is quoted should have received ISO 9001:2015 & 14001:2015 & 27000 certifications for manufacturing facility from where the equipment's will originate.	Refer corrigendum
917	Page No 99	7.9. SAN switch-Point No 19	SUSE Linux Enterprise Server	As per RFP