Response related to Pre-Bid Queries in respect of
RFP: e-Tender of Appointment of an ICT Agency for Establishing Managed Network infrastructure (Wired and Wi-Fi) and
Operations and Maintenance Services in Delhi Development Authority
(Ref.No: F3/0001/2019/F336/Sys)
Corrigendum No: 1/2020 dated 24 January 2020

Response No,	Pre-Bid Query Number	RFP Document			Content of RFP requiring clarification(s)	Points of Clarification(s)	Suggestions for Clarification(s)	Remarks by DDA
		Section / Form No.	Para No.	Page No.				
		Agency-1:						
		Group C :			SECURITY PACKAGE: UNIFIED THREAT MANAGEMENT SYSTEM-2000			
1.	1.	Data sheet 3	C(2)		The quoted OEM for UTM should have presence in India from more than last five years.		The quoted OEM for UTM/ NGFW should have presence in India from more than last five years.	**Accepted.** **Modified as follows:-** "The quoted OEM for UTM/ NGFW should have presence in India from more than last five years."
2.	2.		C(4)		The proposed solution should support High Availability Active-Active mode and no separate cost for HA license.	In situation of failover, the traffic synching from the failed to the active device is much more complex, compared to the failover in an active standby setup which is an industry preferred deployment for high availability.	The proposed solution should support High Availability Active-Passive mode and no separate cost for HA license.	As per RFP.

3.	3.		C(6)		The proposed OEM for UTM should be a leader/Visionary in Gartner's Magic Quadrant for Network Firewalls.		The proposed OEM for UTM/ NGFW should be a leader/Visionary in Gartner's Magic Quadrant for enterprise Firewalls.	This clause is removed in view of the Government Guidelines (Annexure-A, O.M. F.No. P-45021/121/2018-B.E.-II) DPII, Ministry of Commerce and Industry, Government of India) : mandatory Presence in Gartner Magic Quadrant – IT and Telecom products not to be included against the local suppliers
4.	4.		C(8)		Firewall throughput of 60 Gbps.	NGFW Real world throughput of 9Gbps.	For 2000 user, 60 Gbps is extremely oversized. Moreover we recommend real world(with all licenses like IPS+ Application Visibility control enabled) throughput to be measured.	As per RFP.
5.	5.		C(9)		Minimum 8 Gbps of Antivirus Throughput.	Request to delete this clause.	Different OEM has different Methodologies to prevent known & Unknown threats & CISCO Addresses this features Via Advanced Malware Protection/ Zero day Threat Protection licenses on NGFW.	As per RFP.

6.	6.		C (10)		Minimum 25,000,000 Concurrent sessions	3,000,000 Concurrent sessions	For 2000 users, 25,000,000 concurrent sessions are extremely oversized.	As per RFP.
7.	7.		C (11)		Minimum 15 Gbps of IPS throughput	8Gbps of IPS throughput		As per RFP.
8.	8.		C (12)		Minimum 200,000 New Sessions/second	Minimum 57,000 New Sessions/second after enabling layer 7 threat prevention features (like AAP ID)	57K new sessions/ second is more than enough for 2000 users.	As per RFP.
9.	9.		C(13)		Minimum 5 Gbps of IPsec VPN throughput.	Minimum 3 Gbps of IPsec VPN throughput.		As per RFP.
10.	10.		C(16)		Should have minimum of 300 GB SSD drives in RAID. If not, quote Separate solution with 1TB storage in RAID config.	Should have minimum of 200 GB SSD drives.	Logs has kb size so 200GB are enough.	As per RFP.
11.	11.		C(20)		Gateway Anti-virus.	Gateway Anti-virus/ Anti malware with Zero-day protection.	Since Threat Prevention solution has already been asked which help organisation protect against unknown and zero-day threats, different OEM use different approach like AV or APT and hence requesting change	**As per RFP. No Change.** **We require AV with APT. This is already one of the features of Gateway Anti-virus.**

12.	12.		**C (21)**		Gateway Anti-spam with DLP functionality.	Request to delete this clause.	Email Security is all together a different solution. Also only anti-spam is not effective, we should also consider SPF, DKIM, DMARC capabilities.	AS per RFP. Multiple vendors offers Email security in UTM/NGFW.
13.	13.		**C (23)**		Web Application Firewall	to be removed	WAF should be a dedicated platform due to its performance impact as WAF requires SSL decryption and enabling this on perimeter UTM will severely impact its performance. Also firewall works in Inline mode and WAF works in reverse proxy mode and is	As per RPF.

							generally deployed in front of Web servers in DMZ.	
14.	14.		**C (26)**	26	High Availability (Active-Active & Active-Passive)	High Availability (Active-Passive)	Addressed pt no-4	AS per RFP. Please also see Response No. 2
15.	15.		**C (27)**		Network: OSPF, Round Robin load balance, RIPv2, BGP, equal & unequal cost load balance, High Availability, QoS, etc. Round Robin Balance, Server Load Balancing.	to be removed	This should be part of Router.	**As per RFP**.
16.	16.		C (30)		**Gateway Antivirus, Anti-Spyware and Anti-Spam:** Virus, Worm, Trojan Detection and Removal, Automatic Virus signature database update, Real-Time blacklist, MIME header check, and Redirect spam mails to dedicated email address, image-spam filter, Spam Notification, Zero hour Virus outbreak protection.	To be removed	~~Addressed in Pt. No 20~~	As per RFP.
17.	17.		C (32)	32	**Web and Application Filtering:** URL, Keyword, File type block, Block Java applets, cookies, ActiveX, Block malware, **phishing, pharming URL**, block P2P application, anonymous proxies,	URL, Keyword, File type block, Block Java applets, cookies, ActiveX, Block malware, block P2P application, anonymous proxies, Customized block on group basis.		As per RFP.

						Customized block on group basis. Minimum of 80 categories with more than 160 million URLS supported. 2000+ application support categorized into Characteristics, Technology, Category and Risk Level.	Minimum of 80 categories with more than 160 million URLS supported. 2000+ application support categorized into Characteristics, Technology, Category and Risk Level.		
18.	18.		C (33)			The proposed solution must work as a standalone HTTP proxy server with integrated Firewall, Anti-Virus, Anti-Spam, Content filtering, IPS.	The proposed solution must work as a standalone HTTP proxy server with integrated Firewall, Anti-Virus/ Zero day protection, Content filtering, IPS.		NO change. As per RFP, As Anti-spam is very much required feature for email security.

19.	19.		C (40)		**Web Application Firewall (WAF):** Should have an option of WAF with Positive Protection Module, Protection against SQL Injections, Cross Site Scripting (XSS), Session Hijacking, URL tampering, Cookie Poisoning, Reverse Proxy, Extensive Logging and reporting. If external, then has to be quoted separately.	To be removed. (Addressed pt no-23)		As per RFP. WAF is part of UTM/NGFW and offer by multiple OEM. It is must for Web servers. Please also see Response No. 13.
20.	20.		C (44)		**VPN:** IPsec, L2TP, **PPTP and SSL as a part of Basic Appliance**, VPN redundancy, Hub and Spoke support, 3DES, DES, AES, MD5,SHA1 Hash algorithms, IPsec NAT Transversal.	IPsec, L2TP, VPN redundancy, Hub and Spoke support, 3DES, DES, AES, MD5, SHA1 Hash algorithms, IPsec NAT Transversal.		SSL VPNis the most popular VPN for remote user connectivity. SSL VPN should be part of NGFW. As per RFP.

21.	21.		C (46)		**Load Balance:** For Automated Failover/Failback, Multi-WAN failover, WRR based Load Balancing. High availability: **Active-Active**. QoS, OSPF, RIPv2, BGP, Policy routing based on Application and User Support Round Robin Load Balancing.	**To be removed.**	On firewall, load balancing is actually load sharing which involves distributing traffic across various links on firewall depending upon the QOS policies. Load balancing should provide aggregated bandwidth of available links which is only possible through dedicated load balancer.	As per RFP. Load balancing, gateway failover, routing is basic features of UTM/NGFW. Please also see Response No. 2.
22.	22.		C(48)		**Bandwidth Management:** Application and user identity based bandwidth management, Multi WAN bandwidth reporting, **Guaranteed and Burstable bandwidth policy**. Bandwidth for User, Group, Firewall Rule, URL and Applications.	Application and user identity based bandwidth management, Multi WAN bandwidth reporting policy. Bandwidth for User, Group, Firewall Rule, URL and Applications.		Agreed. Modified as follows: - "Application and user identity based bandwidth management, Multi WAN bandwidth reporting policy. Bandwidth for User, Group, Firewall Rule, URL and Applications."
23.	23.		C (50)		**Monitoring and Reporting System:** Includes Integrated Web Based reporting, Monitoring &	Includes Integrated Web Based reporting, Monitoring & Logging, monitoring suspicious activity and alerts, Graphical real-time and historical monitoring, email notification of reports, viruses and attacks reports. IPS, Web filter,		No change, as per RFP. Antispam feature is required so reports also required.

					Logging, monitoring suspicious activity and alerts, Graphical real-time and historical monitoring, email notification of reports, viruses and attacks reports. IPS, Web filter, Antivirus, Anti-spam system reports. IP and User basis report, 45+ Compliance reports and 1200+ drilled down reports on the appliance.	Antivirus/ **anti malware with Zero-day protection reports**. IP and User basis report, 45+ Compliance reports and 1200+ drilled down reports on the appliance.		
24.	24.		C (53)		**License for UTM (Unified Threat Management)** Three Year round the clock support for Gate Way Antivirus, Spyware, Anti-Spam, WAF, Content and Application filtering, IPS, CASB, reporting and support, Upgrades.	Three Year round the clock support for Gate Way Antivirus/ AMP, content and application filtering, IPS, reporting and support, Upgrades.		As per RFP: "Three Year round the clock support for Gate Way Antivirus, Spyware, Anti-Spam, WAF, Content and Application filtering, IPS, CASB, reporting and support, Upgrades."
	Group D : 24 Port Core Switch							
25.	25.				**Switch should support telemetry from Day 1.**	Switch should support telemetry natively or with an additional software or hardware if required in future and it should be from the same hardware OEM. Network telemetry should be readily available to be tethered to the network as and when required seamlessly.	This clause will ensure an optimal performance of network even with maximum concurrent load from the devices connected with it.	As per RPF. RFP already mentions that switch be line rate non-blocking architecture and support line rate. No Gartner report is required, as specs are well designed .

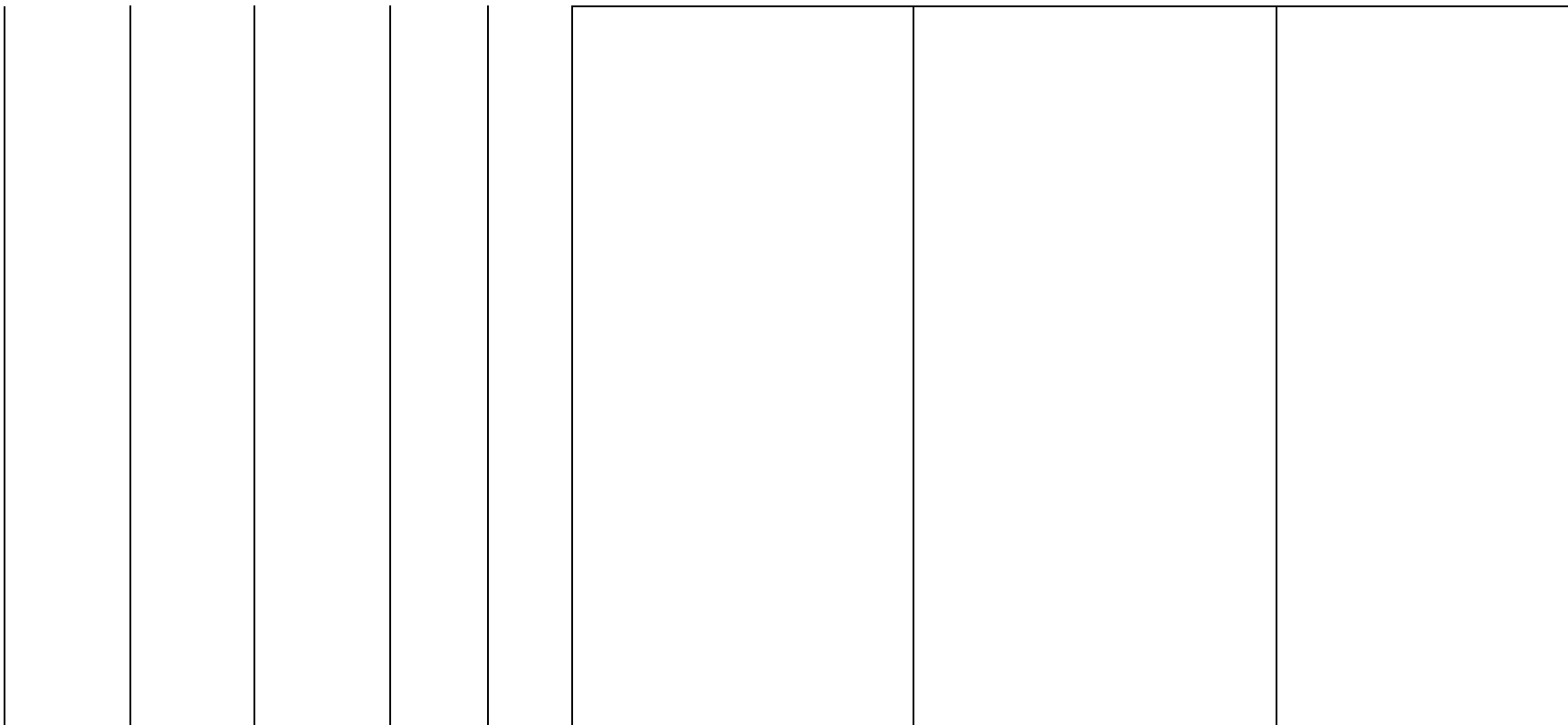|			D (31)			The switch should support at least 900 Gbps of switching capacity and at least 650 Mbps of forwarding rate. Switches/OS should be EAL/NDPP certified. Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years		
	Group-D : 24 Port Distribution Switch							
26.	26.		D (30)		**Switch should support telemetry from Day 1**	Switch should support telemetry natively or with an additional software or hardware if required in future and it should be from the same hardware OEM. Network telemetry should be readily available to be tethered to	This clause will ensure an optimal performance of network even with maximum concurrent load from the devices connected with it.	Please see Response No. 25. Stacking is not required at distribution layer.

| | | | | | | the network as and when required seamlessly.

The switch should support at least 200 Gbps of switching capacity and at least 150 Mbps of forwarding rate.

Switch should support stacking with dedicated stacking port with a stack bandwidth of 480 Gbps.

Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years.

Switches/OS should be EAL/NDPP certified. | Stacking would ensure a single point of IP addressing and configuration for all the switches that are part of it along with ensuring uplinks are not consumed in this configuration with an optimal performance. | |

Group-D: 24 Port Access Switch

| 27. | 27. | | D (31) | | | **Switch should support telemetry from Day 1** | The switch should support at least 120 Gbps of switching capacity and at least 90 Mbps of forwarding rate.

Switch should support stacking with dedicated stacking port with a stack bandwidth of 80 Gbps.

Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years.

Switches/OS should be EAL/NDPP certified | This clause will ensure an optimal performance of network even with maximum concurrent load from the devices connected with it.

Stacking would ensure a single point of IP addressing and configuration for all the switches that are part of it along with ensuring uplinks are not consumed in this configuration with an optimal performance. | Please see Response No. 25.

Stacking is not required as Port requirement at any given location is not high. |

	Group-D : 48 Port Distribution Switch						
28.	28.		D (30)		Switch should support telemetry from Day 1.	The switch should support at least 250 Gbps of switching capacity and at least 190 Mbps of forwarding rate. Switch should support stacking with dedicated stacking port with a stack bandwidth of 480 Gbps. Switch should support telemetry natively or with an additional	This clause will ensure an optimal performance of network even with maximum concurrent load from the devices connected with it. Stacking would ensure a single point of IP addressing and	Please see Response No. 25. Staking is not required at distribution layer.

						software or hardware if required in future and it should be from the same hardware OEM. Network telemetry should be readily available to be tethered to the network as and when required seamlessly. Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years. Switches/OS should be EAL/NDPP certified	configuration for all the switches that are part of it along with ensuring uplinks are not consumed in this configuration with an optimal performance.	
	Group-D: 48 Port Access Switch							
29.	29.		D (31)		Switch should support telemetry.	The switch should support at least 150 Gbps of switching capacity and at least 130 Mbps of forwarding rate. Switch should support stacking with dedicated stacking port with a stack bandwidth of 80 Gbps. Switch should support telemetry natively or with an additional software or hardware if required	This clause will ensure an optimal performance of network even with maximum concurrent load from the devices connected with it. Stacking would ensure a single point of IP addressing and configuration for all the switches that are part of it	Please see Response No. 25. stacking is not required as Port requirement at any given location is not high.

| | | | | | | in future and it should be from the same hardware OEM.

Network telemetry should be readily available to be tethered to the network as and when required seamlessly.

Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years.

Switches/OS should be EAL/NDPP certified. | along with ensuring uplinks are not consumed in this configuration with an optimal performance. | |

	Wifi LAN Controller							
30.	30.		41		The controller and Wi-Fi AP devices management should support command line (ssh/ telnet) and as well as web based (https) administration.	The controller and Wi-Fi AP devices management should support command line (ssh/ telnet) or web based (https) administration in case of cloud managed controller.	In a GUI based configuration, it is not only simpler but CLI is not required as well, since end to end configuration option is available.	Agreed. Modified Clause is a s follows: - "The controller and Wi-Fi AP devices management should support command line (ssh/ telnet) **or** web based (https) administration in case of cloud managed controller."
31.	31.		51		For management and monitoring operations, the controller must provide a web interface, command-line interface, and APIs.	For management and monitoring operations, the controller must provide a web interface/command-line interface, and APIs.	In case of cloud managed solution, CLI wouldn't make relevance and hence request to make it optional.	Agreed. Modified Clause is a s follows: - "For management and monitoring operations, the controller must provide a web interface/command-line interface, and APIs."
32.	32.		75		The solution should allow blocking of guest user for specific time frame between two association sessions.	The solution should allow blocking of guest user upon expiring of Band Width limited assigned to that particular guest user.	This clause would ensure that the guest users are not overutilising the bandwidth meant for their temporary usage.	As per RFP.

33.	33.		…				Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 years. Switches/OS should be EAL/NDPP certified		As per RFP.
	Indoor Wi-Fi Access Points (AP)							

34.	34.		14			AP should support integration with cloud-based and standalone on-prem controller.	AP should support integration with cloud-based or standalone on-prem controller.	This clause will allow both the options for cloud based/standalone controller whichever tailors to the APs. It could be either one of the two	As per RFP.
35.	35.		15			AP must support SSH protocol for local or remote access to device through CLI.	AP must support SSH protocol for local or remote access to device through CLI. In the case of cloud managed controller, it should be configurable via a web based GUI and fall back to a local page should be available as an option.	In a GUI based configuration, it is not only simpler but CLI is not required as well, since end to end configuration option is available.	Agreed. Modified as follows: - "AP must support SSH protocol for local or remote access to device through CLI. In the case of cloud managed controller or On Prem controller, it should be configurable via a web based GUI".
36.	36.		37			The AP must be capable of receiving IP address via DHCP for IPv4/IPv6 and SLAAC for IPv6.	The AP must be capable of receiving IP address via DHCP for IPv4/IPv6.	SLAAC doesn't get the entire network configuration that it may need to be fully functional on the network. Instead it uses DHCPv6 when it has enough configuration to get reach the DHCPv6	As per RFP.

							server to get the rest of the configuration. This type of configuration is suitable for small organizations and individuals. For larger organizations, it wouldn't make much sense.	
37.	37.		....			Switches should be leaders in Gartner's Magic quadrant for wired & wireless infrastructure for last 3 Years. Switches/OS should be EAL/NDPP certified			As per RFP.
	Agency-2: :								
38.	1.		A (5)	40		Group A: SECURITY PACKAGE: UNIFIED THREAT MANAGEMENT SYSTEM - 100 Users:	Request to please not use Gartner or any other such companies **which restricts OEMs** from bidding as directed by Government of India. Notification		Please see Response No. 3 above.

					is also attached for your reference.		
					The proposed OEM for UTM should be a leader/Visionary in Gartner's Magic Quadrant for Network Firewalls.		
39.	2.		C (6)	45	Group C: SECURITY PACKAGE: UNIFIED THREAT MANAGEMENT SYSTEM - 2000 Users: The proposed OEM for UTM should be a leader/Visionary in Gartner's Magic Quadrant for Network Firewalls.	Request to please not use Gartner or any other such companies **which restricts OEMs** from bidding as directed by Government of India. Notification is also attached for your reference.	Please see Response No. 3 above.

					24 Port Core Switch:			
40.	3.		D (12)	48	Switch must have routing protocols like BGP, OSPFv3 , ISISv4, VXLAN,BFD , PIM, SSM, Policy based routing.	Request to please relax "IS-IS, VXLAN and BFD" as these features are not required for campus networks."		As per RFP.
41.	4.		D (14)	48	Switch should support at least 2GB Packet buffer memory.	**2GB buffer is very OEM product family specific**. Switches with such large buffers are very application specific and **not used in Campus** LAN. Industry standard 10G Switches		Accepted and Modified as follows: - "Switch should support at least 40 MB fully shared system buffer."

						do not have more than 6MB or 8MB, or maximum 12MB of buffer.	
						So you are kindly requested to rephrase this clause to "Switch should support at least 6MB Packet buffer memory .", to allow fair competition between leading OEMs.	

42.	5.		D (15)	48	Switch should support EVPN (IPv4 & IPv6) based services for Layer-3 Campus Network.	Request you to **please relax this clause** as these features are not required for campus networks.		No change, As per RFP These features are required as campus is evolving .
43.	6.		D (18)		Security: Switch should support Ingress ACL Scale of 10k or better.	Request to rephrase it as "Switch should support Ingress ACL Scale of 8k or better" so that **the leading OEMs can participate.**		Agreed. Modified as : "Switch should support Ingress ACL Scale of 8k or better"
44.	7.		D (31)	48	**Security: -** Switch should support telemetry from Day 1.		Request to remove this clause	As per RFP. Please also see Response No. 25..
			24 Port Distribution Switch					
					L3: Features			
45.	8.		D (13)	49	Switch must have routing protocols like BGPv4, OSPFv3,	Request to please relax "IS-IS , VXLAN and BFD" as these features		As per RFP.

					ISISv4,BFD , PIM, SSM, Policy based routing.	are not required for campus networks. "		
46.	9.		D (30)	49	Switch should support telemetry from Day 1	Request to remove this clause		As per RFP. Please also see Response No. 25.
			48 Port Distribution Switch					
					L3 Features			
47.	10.		D (12)	51	Switch must have routing protocols like BGPv4, OSPFv3 , ISISv4,BFD , PIM, SSM, Policy based routing	Request to please relax "IS-IS , VXLAN and BFD" as these features are not required for campus networks. "		As per RFP.
48.	11.		D (30)	52	Switch should support telemetry from Day 1			As per RFP. Please also see Response No. 25.
			48 Port Access Switch					
49.	12.		D (31)	53	Switch should support telemetry	Request to remove this clause		As per RFP. Please also see Response No. 25.
			WIFI CONTROLLER SOLUTION					
					Solution Architecture			
50.	13.		D (3)	53	The proposed Wi-Fi controller(s) should be **cloud based Management solution**, it shall be compatible with	**Suggestion:**		As per RFP.

| | | | | | public cloud service platforms such as Google Cloud Platform or Amazon Web Services. | Request to have a Hardware based solution to have a better control of the entire network.

In case of cloud controller, the services will effect if there will be connectivity issues between the APs & cloud controller.

Also after the end of the subscription, your APs will be of no use, whereas in case of hardware based on premises solution, the entire solution will be in possession of DDA for lifetime.

So either you allow only hardware based on premises controller or rephrase it as " The proposed Wi-Fi controller(s) should be cloud based Management solution or Hardware based on premises solution". | |

51.	14.		D (5)	53				As per RFP.
					All Wi-Fi, **WIDS, WIPS & RRM (Radio Resource Management)** services should be functional if the link between AP/Sensor and its management controller goes down. It must also be possible to on board new clients in such a scenario.	Request to change to "All Wi-Fi services should be functional if the link between AP/Sensor and its management controller goes down. It must also be possible to on board new clients in such a scenario."		
			8		**Management Controller**			
52.	15.		D (17)	54	The solution must provide location tracking of **a DoS attacker.**	Request to rephrase as "The solution must provide location tracking of **a Rogue AP**".		As per RFP.

53.	16.		29		**Management and Monitoring**			
54.	17.		D (37)	55	The solution should provide alerts for impact on WLAN performance such as Excessive frame re-transmissions.			As per RFP.
55.	18.		D (38)	55	The solution should provide alerts for impact on WLAN performance such as Low average data rate for a client	The Given specs are vendor specific. Request to rephrase as " The Solution proactively monitors a core set of metrics like latency, airtime utilisation and connection failure that consistently correlate well with common problems, and present a summary metric as a starting point for problem isolation".		As per RFP.
56.	19.		D (39)	55	The solution should provide alerts for impact on WLAN performance such as Drop in Signal of an access point.			As per RFP.
57.	20.		D (40)	55	The solution should provide alerts for impact on WLAN performance such as Inadequate coverage depicted by excessive probe requests / responses.			As per RFP.

					Software & System Management			As per RFP.
			45					
58.	21.		D (49)	55	The Controller Upgrade should not disrupt Wi-Fi and WIPS services.	Request to rephrase as : The Controller Upgrade should not disrupt Wi-Fi services.		As per RFP.
			53		WIPS			
59.	22.		D (54)	55	The Threat detection in the solution must be based on behavioural model and should be independent on signatures and threshold tuning (resilience against Zero-day attacks)	Request to relax this point **as this is vendor specific** and every vendor has their own way/algorithm for threat detection.		Agreed. Modified as:- "OEM should have threat detection mechanism as per their algorithm but it should be able to prevent all wifi threat".
60.	23.		D (56)	55	The solution must have the capability of **auto** classifying Wi-Fi clients as **authorized** (man- aged clients connecting to the network), **guest, rogue** (un-managed client attempting connection to the network) or **external** (unmanaged not connecting to the network e.g.	**Request to rephrase as per RFP.:** The solution must have the capability of classifying Wi-Fi devices as **authorized** (man- aged clients connecting to the network), **guest, rogue** (un-managed client attempting connection to the network) or		As per RFP.

					neighbour), in addition to **manual classification.**	**external** (unmanaged not connecting to the network e.g. neighbour).	
61.	24.		D (58)	56	The solution must be able to detect and automatically prevent all types of Rogue (unauthorized APs connected to the network) APs, such as Bridge and NAT.	These are all vendor specific and repeated specifications. Request to change to: The solution must be able to detect and automatically prevent all types of Rogue devices.	As per RFP.
62.	25.		D (59)	56	The solution must be able to detect and automatically		As per RFP.

					prevent all types of Rogue (unauthorized APs connected to the network) APs, such as MAC-adjacent Open/Encrypted Wi-Fi Routers.		
63.	26.		D (61)	56	The solution must be able to detect and automatically prevent all types of Rogue (unauthorized APs connected to the network) APs, such as Virtual APs on network connected laptoons (e.g. Connectivity software on Windows 7/10).		As per RFP.
64.	27.		D (62)	56	The solution must be able to detect and automatically prevent all types of Rogue (unauthorized APs connected to the network) APs, such as Non-MAC adjacent APs having MAC ACLs.		As per RFP.
65.	28.		D (63)	56	The solution must be able to detect and automatically prevent all Wi-Fi enabled devices such as smartphones		As per RFP.

					bridging / ICS when connected to the network.		
66.	29.		D (66)	56	The solution must detect Honey Pot attacks including its advanced variants such as Multiport attack. It should be able to prevent the authorized client from connecting to a honeypot AP.	Request to make this more generic. Request to change to: The solution should support ••Rogue AP detection / prevention ••Evil-twin/AP spoofing detection ••Ad hoc detection		As per RFP.
67.	30.		D (71)	57	The solution must provide forensic data aggregated for major threat vectors like Rogue AP, Honeypot AP, Mis-Configured AP, DoS, Unauthorized Association, Ad Hoc Networks, Bridging/ICS Client, Mis-Association.	**Request to change to:** The solution reports all types of malicious devices trying to affect the wlan network.		As per RFP.

			72		**Guest Management**			
68.	31.		D (73)	57	The solution should include web based guest user creation by front office users			As per RFP.
69.	32.		D (74)	57	The solution should support self-registration by guest users and admin users can approve the registration.	Suggestion: To go for a standalone AAA/Guest Management solution for the same for more better management of Guest & their activities.		As per RFP.
70.	33.		D (75)	57	The solution should allow blocking of guest user for specific time frame between two association sessions.			As per RFP.
71.	34.		D (76)	57	The solution should support restricted wireless connectivity (e.g., Internet only) to guest clients using portal page.	The role of Wireless LAN Controller is to manage the WiFi Access Points and we suggest not to put all the responsibilities on WLC.		As per RFP.
72.	35.		D (77)	57	The solution should support portal page that can be used to display the terms and conditions of accessing the guest network as well as any other information as needed.			As per RFP.

73.	36.		D (78)	57	The solution should support for Login Timeout, Blackout Time, Redirect to URL and walled garden settings.			As per RFP.
74.	37.		D (79)	57	The solution should support multiple custom portals - separate portals can be configured for each SSID.			As per RFP.
75.	38.		D (80)	57	The solution should support authentication using social plugins - guest users can access WiFi using their social media account credentials.			As per RFP.
76.	39.		D (81)	57	The solution should support authentication using private guest book account.			As per RFP.
77.	40.		D (82)	57	The solution should support creating a custom portal for click-through access, portal page can also be created to ask user to fill some basic information like name, age, email to provide access to WiFi.			As per RFP.
78.	41.		D (83)	57	The solution should support SMS OTP-based authentication support.			As per RFP.
			84		**Dashboard and Analytics**			

79.	42.		D (85)	57	The solution should support a dashboard that provides daily, weekly and monthly overview of the statistics related to demographic data about visitors using guest Wi-Fi, demographic data of visitors using guest Wi-Fi, dwell time.			As per RFP.
80.	43.		D (86)	57	The solution should display graphs representing the visitor distribution by days and locations, and visitor dwell time by days and locations.	Suggestion: To go for a standalone AAA / Guest Management solution for the same for more better management of Guest & their activities. The role of Wireless LAN Controller is to manage the WiFi Access Points and we suggest not to put all the responsibilities on WLC.		As per RFP.

81.	44.		D (87)	57	The solution should provide graphical visualization of data received, transmitted, and total data exchange by days and location.			As per RFP.
					INDOOR WIFI ACCESS POINTS			
			1		AP - Features			
82.	45.		D (29)	59	Antenna gain should be minimum 4dBi for 2.4 GHz and 5 GHz.	**Please rephrase it as:**		Agreed. Modified as : -

						"Antenna Gain should be minimum 3dBi for 2.4Ghz & 5Ghz " so that leading OEMs can participate and DDA can allow a fair competition.		"Antenna Gain should be minimum 3dBi for 2.4Ghz & 5Ghz"
	Agency-3:							
					WIFI CONTROLLER SOLUTION			
			72		**Guest Management**			
83.	1.		D (73)	57	The solution should include web based guest user creation by front office users.	Why this features is required in Wi Fi Controller? As per our suggestion, there should be **separate hardware based internet gateway (AAA)solution** for this kind of requirement. Similar kind of solution mostly used in Guest Wi-Fi hotspot network in similar setups.		As per RFP.
84.	2.		D (74)	57	The solution should support self-registration by guest users and admin users can approve the registration.			As per RFP.

85.	3.		D (75)	57	The solution should allow blocking of guest user for specific time frame between two association sessions.		As per RFP.
86.	4.		D (76)	57	The solution should support restricted wireless connectivity (e.g., Internet only) to guest clients using portal page.		As per RFP.
87.	5.		D (77)	57	The solution should support portal page that can be used to display the terms and conditions of accessing the guest network as well as any other information as needed.		As per RFP.
88.	6.		D (78)	57	The solution should support for Login Timeout, Blackout Time, Redirect to URL and walled garden settings.		As per RFP.

89.	7.		D (79)	57			As per RFP.
					The solution should support multiple custom portals - separate portals can be configured for each SSID.		
90.	8.		D (80)	57			As per RFP.
					The solution should support authentication using social plugins - guest users can access WiFi using their social media account credentials.		
91.			D (81)	57	The solution should support authentication using private guest book account.		As per RFP.
92.	9.		D (82)	57	The solution should support creating a custom portal for click-through access, portal page can also be created to ask user to fill some basic information like name, age, email to provide access to WiFi.		As per RFP.

93.	10.		D (83)	57	The solution should support SMS OTP-based authentication support.			As per RFP.
	Agency-4:							
94.	1.	New			Network Access Control (NAC) Solution		This will provide **security framework for authorised access** into the Network.	Already similar feature included. As per RFP
95.	2.		D (14)	48	24 Port Core Switch Switch should support at least 2GB Packet buffer memory.	Generally, Highest buffer is required for ISCSI traffic or Video traffic. If the traffic is going beyond the port capacity, then buffer is required. In this case, 10G port will cater to the 10GB of data per second. "Switch should support.at least 32MB Packet buffer memory.", so that leaders can participate.		Agreed. Modified as : - "Switch must support at least 40MB fully shared system buffer".

| 96. | 3. | | D (30) | 48 | 24 Port Distribution Switch

Switch should support telemetry from Day 1. | **Telemetry is used to collect information/data from the network devices.**

However, Every OEM use different method to collect the information.

Hence request you to please change this to:

"Switch should support telemetry or NMS support from Day 1".

So that leaders can participate. | | As per RFP. |

97.	4.		D (31)	51	24 Port Access Switch Switch should support telemetry.			As per RFP.
98.	5.		D (30)	52	48 Port Distribution Switch Switch should support telemetry from Day 1.			As per RFP.
99.	6.		D (31)	52	48 Port Access Switch Switch should support telemetry.			As per RFP.
100.	7.	Datasheet 1	14	32	Minimum average annual turnover in last 3 years INR 100 Crores.	Please consider Turnover 25 to 30 Crores as tender estimated value is 20 Crores only, if u make changes DDA will get maximum number of bids.		As per GEM Guidelines, this clause is modified as follows: - "Minimum Average Annual Turnover in last 3 Years is INR 80 Crores."

101.	8.	Datasheet 2	8	36-37	Related projects in last 5 years.	Please consider related projects in last 8 years as these projects are long term projects.		As per RFP.
	Agency-5:							
102.	1.	Data Sheet 3	3	39	Structured cabling: The SCS brand should have direct presence from at least 5 years or more in India.	Our request: Please give the opportunity at least 4 years India or please include the global presence for more than 5 years as Signamax is one of the leading brand in world wide and they the member of TIA. (website link is for you reference. http://signamax.com/).		Accepted. This clause is modified as: "The SCS brand should have direct **contiguous** presence from at least 5 years or more in India **or Globally**, on the date of submission of Bid".
	Agency-6							

| 103. | 1. | Data Sheet 1 | 17 | 32 | Minimum number of qualified technical manpower required-100 | Request to remove word **"Technical"** from the RFP and thus write- minimum number of Manpower strength required is- 100

We are requesting this so that MSME & Startup registered companies which are technically equipped (who hire effective and highly skilled manpower) can participate in the Tender. | | This clause is modified as follows:

Minimum number of qualified technical manpower required is 50. |
| 104. | 2. | Data Sheet 2 | 1(ii) | 34 | In case of a consortium, the consortium shall be of **maximum three partners** including prime bidder, the same shall be formed under a duly stamped consortium agreement and signed by the authorized signatories of the respective companies. | Request to give relaxation in **maximum consortium parties from three to four**. This is requested so that technically equipped (in specific domain) companies & MSME/Startup registered companies can make alliances & bid the tender. | | As per RFP. |

105.	3.		D (28)	48	24Port Core switch / Management & Troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause **is skewed towards specific vendor**. Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent".		**Not skewed** towards specific vendor. The YANG data modeling language is maintained by the NETMOD Working Group in the Internet Engineering Task Force (IETF)and was published as RFC 6020 in October 2010. The data modeling language can be used to model both configuration data as well as state data of network elements (Source: www.en.wikipedia.org). As per RFP.
106.	4.		D (5)	49	24 Port Access Switch/Performance and Scalability	The given clause is skewed towards specific vendor. Request to remove it.		As per RFP.

					Switch should have field replaceable power supplies and FAN trays.		
107.	5.		D (6)	49	24 Port Access Switch/Performance and Scalability. Switch should Provide persistent/constant PoE power even when switch is under maintenance.	This is vendor specific as it switch can't provide persistent/constant PoE power even when switch is under maintenance. **Request to remove this clause.**	As per RFP.
108.	6.		D (28)	50	24 Port Access Switch/Management and Troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause is skewed towards specific vendor . Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent.	As per RFP. Please also see Response No. 105.

						"		
109.	7.		D (9)	51	48 Port Distribution Switch/L2 feature Switch should support Ethernet standards like IEEE802.1p, IEEE802.1Q, Flow control, Jumbo frame, 802.ID, 802.Iw, 802.1s, Jumbo frames, 802.3ad, private vlan.	The given **clause is skewed towards s**pecific vendor. Request to change the clause to "Switch should support Ethernet standards like IEEE802.1p, IEEE802.1Q, Flow control, Jumbo frame, 802.ID, 802.Iw, 802.1s, Jumbo frames, 802.3ad, private vlan or equivalent".		As per RFP.
110.	8.		D (27)	52	48 Port Distribution Switch/Management & troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause **is skewed towards** specific vendor. Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent".		As per RFP. Please also see Response No. 105.

111.	9.		D (5)	52	48 Port Access switch/Performance & scalability Switch should have field replaceable power supplies and FAN trays	The given clause is skewed towards specific vendor. Request to remove it.		As per RFP.
112.	10.		D (6)	52	48 Port Access switch/Performance & scalability. Switch should Provide persistent/constant PoE power even when switch is under maintenance.	This is vendor specific as it switch can't provide persistent/constant PoE power even when switch is under maintenance. Request to remove this clause.		As per RFP.
113.	11.		D (28)	52	48 Port Access switch/Management & troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It	The given clause is skewed towards specific vendor. Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent".		As per RFP. Please also see Response No. 105.

					may support automation tool like python.			
114.	12.		D (5)	53	WIFI CONTROLLER SOLUTION/Solution Architecture All Wi-Fi, WIDS, WIPS & RRM (Radio resource management) services should be functional if the link between AP/Sensor and its management controller goes down. It must also be possible to on board new clients in such a scenario.	The given clause is skewed towards specific vendor. Request change to " When link is down, all existing services should remain unaffected."		As per RFP.
		WIFI Controller Solution/Management and Monitoring						
115.	13.		D (36)	53	The solution should provide alerts for impact on WLAN performance such as High client associations.	The given clause is skewed towards specific vendor.		As per RFP.

						Please change the clause to "The solution should provide analytics".	
116.	14.		D (37)	53	The solution should provide alerts for impact on WLAN performance such as Excessive frame re-transmissions.		As per RFP.
117.	15.		D (38)	53	The solution should provide alerts for impact on WLAN performance such as Low average data rate for a client.		As per RFP.
118.	16.		D (39)	53	The solution should provide alerts for impact on WLAN performance such as Drop in Signal of an access point.		As per RFP.
119.	17.		D (40)	53	The solution should provide alerts for impact on WLAN performance such as Inadequate coverage depicted by excessive probe requests / responses.		As per RFP.

		WIFI Controller Solution/WIPS						
120.	18.		D (57)	55	The solution must correctly detect smart phones connecting to the network and classify them as approved or unapproved.	Threat can be from any device, not only smart phone. Please change the clause to "The solution must correctly detect devices connecting to the network and classify them as approved or unapproved"		Accepted. This clause is modified as follows:- "The solution must correctly detect devices connecting to the network and classify them as approved or unapproved"
121.	19.		D (66)	56	The solution must detect Honey Pot attacks including its advanced variants such as Multiport attack. It should be able to prevent the authorized client from connecting to a honeypot AP.	This clause is vendor specific. Request you to remove it.		As per RFP.

122.	20.		D (71)	56				As per RFP.
					The solution must provide forensic data aggregated for major threat vectors like Rogue AP, Honeypot AP, Mis-Configured AP, DoS, Unauthorized Association, Ad Hoc Networks, Bridging/ICS Client, Mis-Association-	This clause is vendor specific.

Request you to change the clause to

"The solution must provide forensic Data regarding deviations in access policy including Rogue AP, Mis configured AP, DOS , wIPS/wIDS violation. | | |
| 123. | 21. | | D (81) | 57 | WIFI Controller Solution/Guest Management

The solution should support authentication using private guest book account. | Please explain the clause.

What is the desired function?

&

what is meant by guest book? | | It is explained as follows: -

The purpose of a website guestbook is to display the kind of visitors the site gets, including the part of the world they reside in, and gain feedback from them. This allows the webmaster to assess and improve their site. A guestbook is generally a script, which is usually remotely hosted and written in a language such as Perl, PHP, Python or ASP. Many free |

								guestbook hosts and scripts exist. (Source: www.en.wikipedia.org). Every Wifi Solution provides this facility. As per RFP.
124.	22.			83	Section-6: Form V Structured cabling The SCS brand should have direct presence from at least 5 years or more in India	Request to incorporate direct presence from 4 years or more in India.		Please see Response No. 102.
		Agency-7:						
125.	1.		D (28)	48	24Port Core switch /Management & Troubleshooting Switch may support API Driven configuration and support Netconf and Restconf	The given clause is skewed towards specific vendor . Request to change the statement to "Switch may support API Driven configuration and support		As per RFP. Please see the Response No. 105.

					using YANG data model. It may support automation tool like python	Netconf and Restconf using YANG data model or equivalent"		
126.	2.		D (27)	48	24 Port Distribution Switch /Management & Troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python	The given clause is skewed towards specific vendor . Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent"		As per RFP. Please see the Response No. 105.
127.	3.		D (5)	49	24 Port Access Switch/Performance and Scalability Switch should have field replaceable power supplies and FAN trays.	The given clause is skewed towards specific vendor. Request to remove it.		As per RFP.

128.	4.		D (6)	49	24 Port Access Switch/Performance and Scalability Switch should Provide persistent/constant PoE power even when switch is under maintenance.	This is vendor specific as it switch can't provide persistent/constant PoE power even when switch is under maintenance. Request to remove this clause.		As per RFP.
129.	5.		D (28)	50	24 Port Access Switch/Management and Troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause is skewed towards specific vendor . Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or equivalent".		A per RFP. Please see the Response No. 105.
130.	6.		D (9)	51	48 Port Distribution Switch/L2 feature Switch should support Ethernet standards like IEEE802.1p,	The given clause is skewed towards specific vendor .		As per RFP.

					IEEE802.1Q, Flow control, Jumbo frame, 802.ID, 802.lw, 802.1s, Jumbo frames, 802.3ad, private vlan.	Request to change the clause to "Switch should support Ethernet standards like IEEE802.1p, IEEE802.1Q, Flow control, Jumbo frame, 802.ID, 802.lw, 802.1s, Jumbo frames, 802.3ad, private vlan**or equivalent**"		
				.				
131.	7.		D (27)	52	48 Port Distribution Switch/Management & troubleshooting. Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause is skewed towards specific vendor . Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model or **equivalent**".		As per RFP. Please see the Response No. 105.
132.	8.		D (5)	52	48 Port Access switch/Performance & scalability	The given clause is skewed towards specific vendor. Request to remove it.		As per RFP.

					Switch should have field replaceable power supplies and FAN trays.			
133.	9.		D (6)	52	48 Port Access switch/Performance & scalability Switch should Provide persistent/constant PoE power even when switch is under maintenance.	This is vendor specific as it switch can't provide persistent/constant PoE power even when switch is under maintenance. Request to remove this clause.		As per RFP.
134.	10.		D (28)	52	48 Port Access switch/Management & troubleshooting Switch may support API Driven configuration and support Netconf and Restconf using YANG data model. It may support automation tool like python.	The given clause is skewed towards specific vendor. Request to change the statement to "Switch may support API Driven configuration and support Netconf and Restconf using YANG data model **or equivalent**"		As per RFP. Please see the Response No. 105.

135.	11.		D (5)	53	WIFI CONTROLLER SOLUTION/Solution ArchitectureAll Wi-Fi, WIDS, WIPS & RRM (Radio resource management) services should be functional if the link between AP/Sensor and its management controller goes down. It must also be possible to on board new clients in such a scenario.	The given clause is skewed towards specific vendor. Request change to " When link is down, all existing services should remain unaffected."		As per RFP.
136.	12.		D (36)	53	WIFI CONTROLLER SOLUTION/Management and Monitoring. The solution should provide alerts for impact on WLAN performance such as High client associations.	The given clause is **skewed towards** specific vendor. Please change the clause to "The solution should provide analytics"		As per RFP.
137.	13.		D (37)	53	WIFI CONTROLLER SOLUTION/Management and Monitoring The solution should provide alerts for impact on WLAN	The given clause is **skewed towards** specific vendor. Please change the clause to "The solution should provide analytics"		As per RFP.

					performance such as Excessive frame re-transmissions			
138.	14.		D (38)	53	WIFI CONTROLLER SOLUTION/Management and Monitoring The solution should provide alerts for impact on WLAN performance such as Low average data rate for a client	The given clause **is skewed towards**specific vendor. Please change the clause to "The solution should provide analytics"		As per RFP.
139.	15.		D (39)	53	WIFI CONTROLLER SOLUTION/Management and Monitoring The solution should provide alerts for impact on WLAN performance such as Drop in Signal of an access point	The given clause is **skewed towards** specific vendor. Please change the clause to "The solution should provide analytics"		As per RFP.
140.	16.		D (40)	53	WIFI CONTROLLER SOLUTION/Management and Monitoring The solution should provide alerts for impact on WLAN performance such as Inadequate coverage depicted by excessive probe requests / responses.	The given clause is **skewed towards** specific vendor. Please change the clause to "The solution should provide analytics".		As per RFP.

141.	17.		D (57)	55	WIFI CONTROLLER SOLUTION/WIPS The solution must correctly detect smart phones connecting to the network and classify them as approved or unapproved.	Threat can be from any device, not only smart phone. Please change the clause to "The solution must correctly detect devices connecting to the network and classify them as approved or unapproved".		Please see the Response No. 120.
142.	18.		D (66)	56	WIFI CONTROLLER SOLUTION/WIPS The solution must detect Honey Pot attacks including its	This clause is **vendor specific**.		As per RFP.

					advanced variants such as Multiport attack. It should be able to prevent the authorized client from connecting to a honeypot AP.	Request you to remove it.		
143.	19.		D (71)	56	**WIFI CONTROLLER SOLUTION/WIPS** The solution must provide forensic data aggregated for major threat vectors like Rogue AP, Honeypot AP, Mis-Configured AP, DoS, Unauthorized Association, Ad Hoc Networks, Bridging/ICS Client, Mis-Association-	This clause is **vendor specific**. Request you to change the clause to "The solution must provide forensic Data regarding deviations in access policy including Rogue AP, Mis configured AP, DOS , wIPS/wIDS violation.		As per RFP.

144.	20.		D (81)	57	WIFI CONTROLLER SOLUTION/Guest Management The solution should support authentication using private guest book account.	Please explain the clause. What is the desired function & what is meant by guest book?		Please see Response No. 123.
	Agency-8:							
			Group E Main Point : Premium FR Cat6 UTP LSZH Cable					
145.	1.		E:I.1	60	23AWG Solid Category 6 Premium FR UTP cable, LSZH, Zero-bit Error, RoHS, UL/ETL, Up to **600Mhz support**, Test Certificates, 305m cable Reel, Compliant with ANSI/TIA/EIA-568-C.2 standards.	Please remove 600 Mhz. As per standard Cat6 operating frequency is 250 Mhz. Also **Remove zero bit error** - this is obsolete standard.		Accepted. Revised Specification is as follows: - "23AWG Solid Category 6 Premium FR UTP cable, LSZH, RoHS, UL/ETL, **Up to 500Mhz** support, Test Certificates, 305m cable Reel, Compliant with ANSI/TIA/EIA-568-C.2 standards".

146.	2.		E:I.(5)	60	Should Support up to 500 MHz Frequency	Please make it 250 Mhz as per standard as 500 Mhz is for Cat 6A..		As per RFP. Please see the Response No. 145.
147.	3.		E:I(6)	60	Should Support up to 500 MHz Frequency	Please make it 250 Mhz as per standard as 500 Mhz is for Cat 6A..		As per RFP. Please see the Response No. 145.
148.	4.		E:I(14)	60	ETL verified electrical transmission performance.	Please Add 3P certificate also which is Denmark based lab and Mostly European companies follow this lab.		As per RFP.
149.	5.		I(18)	60	Third party verified by Intertek Testing Services (ETL)	It Should be ETL verified /3P Tested (ETL verification is conformance mark and to be interpreted as ETL verified)Add 3P		As per RFP.

					Group-E: Pemium Cat6 UTP 24 Ports Patch Panel			
150.	6.		E II (1)	60	Cat6 Premium Patch Panel loaded with keystones, Powder coated steel, IDC: Suitable for 22-26 AWG with both 110 & Krone punch down tools, Compliant with the ANSI/TIA/EIA 568C.2, 50µinches gold on contact area, Phosphor bronze with nickel plated IDC Contacts.	Please **add Freenet** also as Keystone is brand specific name similarly as surf is brand name and actually it is washing power .Also allow for tool free termination which is better.		Changed and revised specs are: "Cat6 Premium Patch Panel loaded with **Keystone/Freenet**, Powder coated steel, IDC: Suitable for 22-24 AWG with both 110 & Krone punch down tools / Tool less (Tool free), Compliant with the ANSI/TIA/EIA 568C.2, 50µinches gold on contact area, Phosphor bronze with nickel plated IDC Contacts."

151.	7.		E. II (7)	60	Category 6 UTP Keystone Jack	Allow Freenet also		Change revised specs are; "Category 6 UTP Keystone Jack / Tool less Jack (Tool Free)"
152.	8.		E.III (1)		Group E: Cat6 UTP I/O, Face Plate with Backbox Keystone - Cat6 Premium Jack Suitable for 23-26 AWG stranded and solid wire,ETL verified, Unshielded EIA/TIA connecting hardware, Category 6, TIA568 C.2,Contact Bracket - PC, UL 94V-2 or better, 50 μinches gold on plug contact area.	Please Add 3P certificate along with ETL also which is Denmark based lab and Mostly European companies follow this lab.		As per RFP.

153.	9.		E: VI (12)	61	Group E: Cat6 Outdoor UTP Cable 23AWG Solid Category 6 Premium Outdoor UTP cable, UV Protection, 305m cable Reel, Compliant with ANSI/TIA/EIA-568-C.2 standards	Please add Jacket material HDPE an make it double jacket Inner Jacket LSZH and Outer HDPE, as this will fulfill the criteria for outdoor cable.		Accepted. The revised specifications are: - "23AWG Solid Category 6 Premium Outdoor UTP cable, UV Protection, 305m cable Reel, Compliant with ANSI/TIA/EIA-568-C.2 standards, **Double Jacket (Inner Jacket LSZH and Outer HDPE)**".
154.	10.		F:I(1)	62	Group F: Group F: PVC Casing/Capping for indoor cabling (Any ISI certified standard make) Crush Resistance: 3000N/100mm, Tensile Force: 2000N	Please change it to Crush Resistance: 2000N/100mm, Tensile Force: 800N		As per RFP.
		Agency-9:						

| 155. | 1. | Data Sheet 2 | 3 | 35 | **Supporting documents to be submitted**

"Any documentary proof indicating that the bidder (Sole Bidder / Prime Bidder) is in the business of developing and operating Managed Network Infrastructure Projects." | Here we want to allow/accept that
In case of Consortium, any of the Consortium member to have the relevant experience in business of developing & operating Managed Network Infrastructure Project" | | As per RFP. |
| 156. | 2. | Data Sheet 2 | 4 | 35 | Bidder (Sole Bidder / All Members of the Consortium) should have ISO 9001: 2015 or better certification. | In case of Consortium, either of the member should have valid ISO 9001:2015, ISO/ IEC 2000-1:2018, ISO/IEC 27001:2013 certifications. | | Accepted. Modified Clause is as follows: -

"Bidder (Sole Bidder / All Members of the Consortium) should have any one of these certificate i.e. ISO 9001: 2015 or ISO/ IEC 20001:2018 or ISO/IEC 27001:2013 certifications or higher". |

157.	3.	Data Sheet 2	12	37	The Tenderer (Sole Bidder/ Lead Member (in case of Consortium)) must have such number of minimum Technically Qualified (in IT Networking and Managed Services related field) Human Resources, as on the date of Bid Submission, as mentioned in Data sheet 1.	In case of Consortium, either of the bidder must have such number of minimum Technically Qualified (in ITNetworking and Managed Services related field) Human Resources, as on the date of BidSubmission, as mentioned in Data sheet 1.		This clause is modified as follows:- "The Tenderer (Sole Bidder/ Lead Member (in case of Consortium)) must have such number of minimum Technically Qualified (in IT Networking and Managed Services related field) Human Resources, as on the date of Bid Submission, as mentioned in Data sheet 1 : "**50 instead of 100"**.
158.	4.	Data Sheet 5	3	79	Payment Terms:	Kindly amend payment term as on supply / Delivery - 85%, on		As per RFP.

					i) Supply:- 75% payment for supplies on progressive basis up on receipt of material and inward by store duly checked for the content. That is, on receipt of goods duly certified and accepted by the buyer team ii) Installation and Commissioning: - 20% payment upon completion of installation and commission and handover there. That is, on completion of project and acceptance certificate hereof together with submission of final cable routing path and network diagram listing all major network components iii) Final Acceptance:- Final 5 % payment after 3 months of successful handover of project after acceptance certificate, and satisfactory performance and monitoring and acceptance thereof by the project in-charge DDA	Installation - 10% and on Final acceptance (after 3 months) - 5%	

					iv) O&M:- O&M including On-site support charges shall be paid on quarterly basis within 30 days of receipt of invoice after close of quarter and after appropriating any deductions towards SLA deficiency on quarterly computation basis			
		Agency-10:						
159.	1.	Data Sheet 2	8	36	The Tenderer (Sole Bidder/Lead Member) should have executed / operationalized relevant projects (Related to Managed Network Infrastructure and its services) in last 5 Years, as on Date of Bid Submission, in Government (or its Autonomous/ PSU/ Subordinate Organisation/ Local Bodies etc.) or Large Corporations in India: Projects of numbers and amount mentioned in Data Sheet 1.	Kindly allow relevant experience of Lead bidder or any consortium partner.		As per RFP.

| 160. | 2. | Data Sheet 2 | 12 | 37 | The Tenderer (Sole Bidder/ Lead Member (in case of Consortium)) must have such number of minimum Technically Qualified (in IT Networking and Managed Services related field) Human Resources, as on the date of Bid Submission, as mentioned in Data sheet 1. | Kindly allow relevant experience PO of Lead bidder or any consortium partner. | | Please see the response No. 157. |

161.	3.		3	79	Payment Terms: i) Supply: - 75% payment for supplies on progressive basis up on receipt of material and inward by store duly checked for the content. That is, on receipt of goods duly certified and accepted by the buyer team ii) Installation and Commissioning: - 20% payment upon completion of installation and commission and handover there. That is, on completion of project and acceptance certificate hereof together with submission of final cable routing path and network diagram listing all major network components iii) Final Acceptance: - Final 5 % payment after 3 months of successful handover of project after acceptance certificate, and satisfactory performance and monitoring and	Kindly amend payment term as on supply / Delivery - 85%, on Installation - 10% and on Final acceptance (after 3 months) - 5%		As per RFP.

					acceptance thereof by the project in-charge DDA			
					iv) O&M:- O&M including On-site support charges shall be paid on quarterly basis within 30 days of receipt of invoice after close of quarter and after appropriating any deductions towards SLA deficiency on quarterly computation basis			
		Agency-11						
			Group D: Active Package - Switching And Access Points					
162.	1.		D (14)	47	24 Port Core Switch Switch should support at least 2GB Packet buffer memory. 24 Port Distribution Switch	Generally Highest buffer is required for ISCSI traffic or Video traffic. If the traffic is going beyond the port capacity, then buffer is required. In this case 10G port will cater the 10GB of data per second. Request you to please change this clause to " Switch should support at least 32MB Packet buffer memory." so that leaders can participate		Change: Switch must support at least 40MB fully shared system buffer.

163.	2.		D (30	48	24 Port Distribution Switch Switch should support telemetry from Day1			As per RFP
164.	3.		D (31)	50	24 Port Access Switch Switch should support telemetry	Telemetry is used to collect information/data from the network devices.		As per RFP
165.	4.		D (31)	50	24 Port Access Switch Switch should support telemetry	However, Every OEM use different method to collect the information.		As per RFP
166.	5.		D (30)	51	48 Port Distribution Switch Switch should support telemetry from Day 1	Hence request you to please change this to "Switch should support telemetry or NMS support from Day 1. "		As per RFP
167.	6.		D (31)	53	48 Port Access Switch Switch should support telemetry	So that leaders can participate		As per RFP
	Agency-12:							
168.	1.	Data Sheet 2	7	36	Bidder (Sole Bidder / Consortium combined together) should have average annual turnover of more than such amount as mentioned in Data Sheet 1 from Managed Network Infrastructure	As per understanding the project is for the ICT infrastructure. Hence we request you to kindly amend this clause as: Bidder (Sole Bidder / Consortium combined together) should have average annual turnover of more		Agreed. This clause is modified as follows:- "Bidder (Sole Bidder / Consortium combined

					Projects for each of the last three Financial Years ending on such date as mentioned in data sheet 1.	than such amount as mentioned in Data Sheet 1 from Supply/Instsllation/Operation &Maintenenace of IT/ICT Infrastructure for each of the last three Financial Years ending on such date as mentioned in data sheet 1.		together) should have average annual turnover of more than such amount as mentioned in Data Sheet 1 from Supply/Installation/Operation &Maintenance of IT/ICT Infrastructure for each of the last three Financial Years ending on such date as mentioned in data sheet 1.".
169.	2.	Data Sheet 2	8	36	The Tenderer (Sole Bidder/Lead Member) should have executed / operationalized relevant projects (Related to Managed Network Infrastructure and its services) in last 5 Years, as on Date of Bid Submission, in Government (or its Autonomous/ PSU/Subordinate Organisation/ Local Bodies etc.) or Large Corporations in India: Projects of numbers and amount mentioned in Data Sheet 1.	We request you to kindly amend this clause as: The Tenderer (Sole Bidder/Lead Member) should have executed / operationalized relevant projects (Related to Supply, Installation, Commissioning of IT/ICT Infrastructure) in last 5 Years, as on Date of Bid Submission, in Government (or its Autonomous/ PSU/Subordinate Organisation/ Local Bodies etc.) or Large Corporations in India: Projects of numbers and amount mentioned in Data Sheet 1.		As per RFP.

| 170. | 3. | Data Sheet 5 | 3 | 79 | Payment Terms:

i) Supply: - 75% payment for supplies on progressive basis up on receipt of material and inward by store duly checked for the content. That is, on receipt of goods duly certified and accepted by the buyer team
ii) Installation and Commissioning: - 20% payment upon completion | We request you to kindly amend this clause as:

i) Supply:- 80% payment for supplies onreceipt of material and inward by store duly checked for the content. That is, onreceipt of goods duly certified and accepted by the buyer team
ii) Installation and Commissioning: - 20%payment upon completionof installation and commission and handover there. That is, on completion of project and | | As per RFP. |

					of installation and commission and handover there. That is, on completion of project and acceptance certificate hereof together with submission of final cable routing path and network diagram listing all major network components iii) Final Acceptance: - Final 5 % payment after 3 months of successful handover of project after acceptance certificate, and satisfactory performance and monitoring and acceptance thereof by the project in-charge DDA iv) O&M:- O&M including On-site support charges shall be paid on quarterly basis within 30 days of receipt of invoice after close of quarter and after appropriating any deductions towards SLA deficiency on quarterly computation basis	acceptance certificate hereof together with submission of final cable routing path and network diagram listing all major network components. iii) ….. O&M:- O&M including On-site support charges shall be paid quarterly in advance.		
171.	4.	Data Sheet 4: BOQ	A, B & C	70	Security Package: Qty Unified Threat Management System- 100	Please elaborate the correlation between Location and Qty for Unified Threat Management System.		No Need.

		Security Package			Users –6Locations 6 Unified Threat Management System - 600 Users -2Locations 4 Unified Threat Management System- 2000 Users –2 Locations 4			
		Agency-13:						
		Group E: Data Points UTP CAT 6 Structured Cabling System						
172.	1.	Premium FR Cat6 UTP LSZH Cable	E (I.15)	60	as per ANSI/TIA-568.2-D Cat 6 and	Please mention it as "as per ANSI/TIA-568.2-D Cat 6 or ISO/IEC 11801-1 Class E. Both standards ANSI/TIA-568.2-D Cat 6 (USA) or ISO/IEC 11801-1 Class E (EMEA) are similar. Therefore, test report from either of standard should be acceptable. OEM may not test cables with both standards because these are similar.	Accepted. Revised Specification is as follows: - "as per ANSI/TIA-568.2-D Cat 6 or ISO/IEC 11801-1 Class E with 4-connector channel".	

173.	2.		E (I.16)	60	ISO/IEC 11801-1 Class E with 4-connector channel	Please mention it as "ANSI/TIA-568.2-D Cat 6 or ISO/IEC 11801-1 Class E with 4-connector channel		
174.	3.		E (I.21)	60	UL and RoHS Compliant	Please mention it as "UL/ETL and RoHS Compliant"	In Sr. No. I.1 customer has already mentioned UL/ETL. Therefore, here also it should be mentioned as same.	Accepted. Modified as "UL/ETL and RoHS Compliant"
175.	4.	Premium Cat6 UTP 24 Ports Patch Panel:	E (II.1)	60	Cat6 Premium Patch Panel loaded with keystones, Powder coated steel, IDC: Suitable for 22-26 AWG with both 110 & Krone punch down tools, Compliant with the ANSI/TIA/EIA 568C.2, 50μinches gold on contact area, Phosphor bronze with nickel plated IDC Contacts	Please mention it as "Cat6 Premium Patch Panel loaded with keystones, Powder coated steel, IDC: Suitable for 22-24 AWG with both 110 & Krone punch down tools, Compliant with the ANSI/TIA/EIA 568C.2, 50μinches gold on contact area, Phosphor bronze with nickel plated IDC Contacts"	Category cables are between 22-24 AWG Only, as per ANSI/TIA 568-C.2 Std. Therefore, 26 should be changed to 24 AWG.	Accepted. Modified as follows: - "Cat6 Premium Patch Panel loaded with keystones, Powder coated steel, IDC: Suitable for 22-24 AWG with both 110 & Krone punch down tools / Tool less, Compliant with the ANSI/TIA/EIA 568C.2, 50μinches gold on contact area, Phosphor bronze with nickel plated IDC Contacts"

176.	5.		E.I	60	Premium FR Cat6 UTP LSZH Cable	What does it mean by "Premium"? Does it mean any additional parameters which is not mentioned in given specifications?	If there is not additional parameter by the word :premium", then request you to please remove it from all the components like Cables, Panels, Patch Cords, Cat6 Outdoor Cable Jacks etc.	As per RFP. (as per Technical specs or superior)
177.	6.	Group G: Fiber Optic Cabling	G (I.4)	62	Moisture resistance & should have water proof layer	Please mention it as "Moisture resistance as per IEC 60794"	Just having a layer does not guarantee moisture/water resistant properties. Therefore, standard needs to be mentioned to make sure all OEM quote good quality product.	As per RFP. Vendor can offer better spec than the one mentioned.
	Agency-14:							
178.	1.	Premium FR Cat6 UTP LSZH Cable	E(I.1)	60	23AWG Solid Category 6 Premium FR UTP cable, LSZH, Zero-bit Error, RoHS, UL/ETL, Up to 600Mhz support, Test Certificates, 305m cable Reel, Compliant with ANSI/TIA/EIA-568-C.2 standards	Request you to consider the frequency support upto 500Mhz as mentioned in the cable spec > S/N 5 & 6.		Please see the response No. 145.
179.	2.	Cat6 UTP I/O, Face Plate with Backbox:	E (III.1)	60	Keystone - Cat6 Premium Jack Suitable for 23-26 AWG stranded and solid wire, ETL verified, Unshielded EIA/TIA connecting hardware, Category 6, TIA568 C.2, Contact Bracket - PC, UL 94V-2 or better, 50 µinches gold on plug contact area	Request you to consider the flammability UL rating of Keystone with reference to specification of Premium Cat6 UTP 24 Ports Patch Panel > S/N 8 & 14 i.e. UL 94V-0 or better.		As per the RFP. Vendor can offer better spec than the one mentioned
180.	3.	Face Plate - Dual (Square) with shutter, Face Plate - ABS, UL94-HB	E (IV.1)		Face Plate - Dual (Square) with shutter, Face Plate - ABS, UL94-HB	Request you to consider UL rating of Faceplate as UL94V-0		Accepted. Modified specification as follows: - "Face Plate - Single (Square) with shutter, Face Plate - ABS,

							UL94V-0".
181.	4.	Group G: Fiber Optic Cabling 12 Ports LIU	G (II.2)		Standard 19" Rack mountable Aluminium base material	Standard 19" Rack mountable cold rolled steel / aluminium material		Accepted. Modified specification as follows: - "Standard 19" Rack mountable LIU with Cold Rolled Steel / Aluminium Material".
182.		Bill of Quantity (BOQ)						
183.	1.	Data Sheet 4 Data Points CAT6 UTP Cable	E.1	72	4-pair, Cat6 (650 MHZ tested with Cross (+) filler pair separator& LSZH sheath), 23 AWG,UTP Cable (305 mt. Roll), Meets or exceeds ANSI/TIA- 568-C.2 , Blue Color, LSZH	Request you to consider below spec: 4-pair, Cat6 (500 MHZ tested with Cross (+) filler pair separator& LSZH sheath), 23 AWG, UTP Cable (305 mt. Roll), Meets or exceeds ANSI/TIA- 568.2-D, Blue Color, LSZH		Accepted. Revised specification is as follows: - "Change and revise as : 4-Pair, Cat6, 500 MHZ tested with Cross filler Pair Separator & LSZH sheath, 23 AWG, UTP Cable (305 mt. Roll), Meets or exceeds ANSI/TIA- 568.2-D, Blue Color, LSZH"
184.	2.		E(2)	72	Cat 6 UTP SL Series Jack with Strain relief and bend limiting boot	Request you to consider below spec: Cat 6 Premium UTP Jack with Strain relief and bend limiting boot		Accepted. Modified as "Cat 6 UTP Keystone Jack / Tool Less Jack with Strain relief and bend limiting boot".
185.	3.		E(3)	72	1-port Standard face plate of size 2.75 in (69.85 mm) x 4.5 in (114.30 mm) x 0.22 in (5.59 mm), Material should be ABS /UL94 V-0. Holder Jack of ABS	Request you to consider below spec: 1-port Standard face plate, Material should be ABS /UL94		Please ignore the dimensions specified. Modified Specification is as follows: -

					UL 94V-0, Cover label of Acrylic UL94V-0	V-0. Holder Jack of ABS UL 94V-0, Cover label of Acrylic UL94V-0		"1-port Standard face plate, Material should be ABS /UL94 V-0. Holder Jack of ABS UL 94V-0, Cover label of Acrylic UL94V-0".
186.	4.		E(4)	72	Cat 6, 24-port unloaded Modular Straight Jack Panel for SL series with labels and clear label covers, Height, 1U	Request you to consider below spec: Cat 6, 24-port unloaded Jack Panel with labels and clear label covers, Height, 1U		Revised specification is as follows: - "Cat 6, 24-port unloaded Modular Straight JackPanel with labels and clear label covers, Height, 1U. "
187.	5.	G. Fiber Components - Backbone Cabling	G(2)	73	12 Port FMS Fiber Optic Termination Panel, 1U, 19 in, 24 LC/UPC, single mode, OS2, black Central Location	Request you to consider below spec: 12 Port FMS Fiber Optic Termination Panel, 1U, 19 in, 12 LC/UPC, single mode, OS2, black Central Location		It is a typographical error. Revised specification is as follows: - "12 Port FMS Fiber Optic Termination Panel, 1U, 19 in, 06 LC/UPC Duplex Ports (12 Ports), single mode, OS2, black Central Location".
		Agency-15:						
188.	1.	Data Sheet 1	14	32	Turn over criteria: Minimum average annual turnover in last 3 years	Please change it to INR30Cr.	This criteria is barring capable companies from participating in the tender give right solution at reasonable costing.	Please see Response No. 100.
189.	2.		17	32	Minimum number of qualified technical manpower required (100)	Please change it to 40 technical staff strength.	Again, this will allow growing organizations to participate and propose the solution.	Please see Response No. 103.
		Agency-16:						

190.	1.	Data Sheet 1	14	32	Minimum average annual turnover in last 3 years.	Relaxation should be given in this condition and annual turnover should be changed to Rs 35crores instead of Rs 100 Crores.	This will allow startup and small organizations to offer their offerings. Moreover, turnover criteria for most Govt. Tenders is kept 1.5 times to 2 times of total tender cost. Considering this, we request you to give relaxation in this.	Please see Response No. 100.
191.	2.		17	32	Minimum number of qualified technical manpower required (100)	It should be relaxed to 35-40 in place of 100		Please see Response No. 103.
192.	3.		20	32	Projects, numbers and amounts required	It should be relaxed to 3 PO's of Rs 4 Cr each		As per RFP
		Agency-17:						
193.	4.	Data Sheet 1	14	32	Minimum average annual turnover in last 3 years	It should 40 Cr or less.	- In most of the tenders, turnover criteria is generally not more than double of the project value. - In case of 100Cr turnover , only large organizations will be able to participate which generally operates on higher margins whereas small/mid-sized organizations operate on nominal margins in order to expand their client database and grow. This will ensure that DDA gets best representation/solution from various organizations in cost effective manner. - Otherwise small/mid-sized organizations will never be able to grow.	Please see Response No. 100.

194.	5.		17	32	Minimum number of qualified technical manpower required (100)	It should be 50	For a mid-sized organization technical strength of 50 is decent and sufficient to handle such kind of projects.	Please see Response No. 103.
		Agency-18.						
195.	1.	Data Sheet 2	3	35	**Supporting documents to be submitted:** 2) Any documentary proof indicating that the bidder (Sole Bidder / Prime Bidder) is in the business of developing and operating Managed Network Infrastructure Projects. (3) certificate consequent to change of name, if applicable.	2) Any documentary proof indicating that the bidder (Sole Bidder / Prime Bidder) is in the business of developing and operating Managed Network Infrastructure Projects. … Request to clarify that which kind of document. **And for this**: the business of developing and operating Managed Network Infrastructure Projects: which kind of project required or can we use simple network switches and router experience?		Copy of Work Orders and completion certificates of the relevant Project (Managed Network Infrastructure, wired / wireless, having Routers, Switches, Fibre Optics Cabling, UTP Cabling etc) is required.
196.	2.		7	36	In case of Consortium, Prime Bidder should have average annual turnover of more than **Amount (INR … Crores** less than such as mentioned in Data Sheet 1 from Managed Network Infrastructure Projects for each of the last three Financial Years ending on such date as mentioned in data sheet 1.)			This omission is rectified by amending the relevant portion as follows: - In case of Consortium, Prime Bidder should have average annual turnover of more than Amount **INR 50 Crores** but less than such as mentioned in Data Sheet1, in association with Response No. 100.

197.	3.	Data Sheet 1 and Data sheet 2	DS1 (20) & DS 2 (8)	35 & 36	The Tenderer (Sole Bidder/Lead Member) should have executed / operationalized relevant projects (Related to Managed Network Infrastructure and its services) in last 5 Years, as on Date of Bid Submission, in Government (or its Autonomous/ PSU/Subordinate Organisation/ Local Bodies etc.) or Large Corporations in India: Projects of numbers and amount mentioned in Data Sheet 1. Projects, numbers and amounts required (a)One Project of Value >= INR 16.00 Crores OR (b)Two Projects of Value each >= INR 10.00 Crores OR (c) Three Projects of value each >= INR 6.00 Crores.	**Option – I** As per RFP. **Option - II** The Tenderer (Sole Bidder/Lead Member) should have executed / operationalized/ **On Going** relevant projects (Related to Managed Network Infrastructure and its services) in last 5 Years, as on Date of Bid Submission, in Government (or its Autonomous/ PSU/Subordinate Organisation/ Local Bodies etc.) or Large Corporations in India: Projects of numbers and amount mentioned in Data Sheet 1. Projects, numbers and amounts required (a)One Project of Value >= INR 16.00 Crores OR (b)Two Projects of Value each >= INR 10.00 Crores OR (c) Three Projects of value each >= INR 6.00 Crores.		As per RFP.