

Sno	Section	Clause	Brief Description of the Clause	Ref Page No In Tender	Query/ Comments of Bidder	Clarifications
1	RFP	2.2.3.1.1 Price Bid for Supply of Components, Network Operation Centre (DC & DR)	Civil and Electrical Infra with 20 KVA UPS (1+1), Silent DG of 45 KVA (1+1), Air conditioning (PAC and CAC) and Earthing, Fire and Safety Facilities. IP Phones, Video conference equipment.	12	Please specify the quantity of IP Phones, Video conference equipment.	The Minimum number of IP Phones provided shall be 10 nos for the Operation Support service. Bidder to provide total requirement of IP phones, VC equipment as per bidder's design of NOC
2	BBNL-Electronic-Equipment-APSFL 10.1 Check List of Documents to be Submitted by the Bidder	Clause 10.1 Point no. 32, 33 & Clause no. 2.3.1 S.No. A General Eligibility - Eligibility Criteria point No.4	32. Legally binding agreement with the OEM/ ToT Partner for supply, installation and commissioning of IPMPLS for 7 years Operation & maintenance period (including warranty period) 33. Legal binding Agreement with the Manufacturers	15	Instead of Legal Binding agreement or Teaming Agreement, MAF should Suffice. Please change the requirement.	The bidder shall provide MAF from OEM clearly mentioning OEM support for supply, warranty, installation & commissioning and support for period of seven years in O&M phase.
3	RFP Document: 2.3.2/Commercial eligibility	5	OEM through its Indian Subsidiary must have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	OEM has TAC (technical assistant centre) for troubleshooting critical problems for across the customers globally, highly skilled resources are being deployed to resolve critical issues for multiple customer. Deploying so many critical resources for one project and in a particular location will increase the cost of the project and make it unviable. We therefore request you to please remove the clause.	No change
4	BBNL_MPLS_C4, Annexure III Payment Terms	S.No.1	Documentry Evidence - Against submission of BG of 110% of mobilization advance	34	In the main Table the Documentary Evidence is Against submission of BG of 110% of mobilization advance whereas below the table in the footer section the information is Mobilization advance Documentary Evidence: 1. Sign of Agreement 2. Submission of PBG of 100%. Please clarify the exact clause.	BG of 110% of mobilization advance
5	3.21 Levy/Taxes payable by PIA		All taxes including GST, Building and other Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the PIA and APSFL shall not entertain any claim whatsoever in this respect.	36	The price bid mentions that taxes will be paid at actuals as per prevailing rates during submission of bills. But at clause 3.21 it is mentioned that All taxes including GST, Building and other Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the PIA and APSFL shall not entertain any claim whatsoever in this respect - kindly confirm whether GST is payable extra at actuals or to be included in the bid price.	GST will be paid at actuals as per prevailing rates during submission of bills
6	4. Project Stakeholders: Roles & Responsibilities		PIA responsible to carry out the mobile application based digital survey and finalize the PoP locations in blocks and GPs	44	The PIA is supposed to carry out mobile application based digital survey. Kindly request you to provide us the detailed scope of the survey which shall be done by the MSI.	bidder has to capture the GIS coordinates and Site readiness for the I&C of Equipments
7	5. Project Schedule		The commissioning of 100% of the GPs in the package needs to be completed within 9 months.	47	The completion timeline is really aggressive considering the huge number of site locations spread throughout the state. Kindly request you to increase the implementation time to 15 months.	No Change
8	6. Scope of Work		Provision of minimum 1Gbps bandwidth scalable up to 10 Gbps at each GP	48	Kindly let us know if the bandwidth needs to be provided by the MSI or by the client. If it needs to be provided by the MSI, please let us know the entire scope related to bandwidth.	APSFL will provide
9	6.1	Network architecture Diagram	Network architecture Diagram	49	Kindly clarify the scope of second MPLS Service Provider. It is understood that all traffic will be handled by APSFL network only.	APSFL will provide
10	6.2 Network Requirements	Automation frameworks and tools	The Network should implement automation frameworks and tools to enable Zero Touch service provisioning and dynamic policy enforcement. The System Integrator has to deploy a suitable automation framework which should automate end to end configuration and service provisioning without any user intervention. All the necessary dependent hardware required for this solution need to be supplied by PIA and should scale for at least 50000 devices.	50	Kindly clarify that automation framework is only for the network devices or for the entire infrastructures (like server, storage, security components etc.)	All Network devices is mandatory and it is preferred to have support for Server, Storage and infra components
11	RFP - 6.2 Network requirement		The Network should be based on Ring Topology (Single/Dual Homed) and must support the dynamic redundancy protocol for better convergence. The Ring Based architecture must be deployed to meet the following: Redundancy of nodes and Links to maintain higher uptime Better Link utilization Flexibility to allow easy Insertion of new Node.	50	We understand that node redundancy can be achieved by dual home concept at Block and GP level wherever possible. However, we can not achieve it at Master block level in the same manner. Please elaborate your ask?	At Master block level also redundancy can be achieved by proper planning of the routes. APSFL can help providing required inputs for achieving this.
12	section 6.1	Network architecture- Pre aggregation Layer	The capacity will be multiple of 1G which can be further scaled as the traffic grows.	50	As per our understanding the GP ring capacity will be 10 G while the access port will be of 1G. Please confirm.	Yes
13	section 6.2	Network Requirements	The bidder should provide the total solution (software, server and other accessories) for traffic analysis (monitoring, debugging, categorizations in ASN based, application based etc.) of all the router devices.	50	Kindly elaborate on the features of Traffic analysis solution, also add it as a line item in SOR.	PIA to propose methodology
14	Section 6.2	Pre-Aggregation Layer	Testing of traffic from the MPLS at Gram Panchayat to the Block MPLS and further to State NOC	50	Traffic testing can be done only after go-live or else traffic generator needs to be considered, if we need to do the traffic testing before go live please add Traffic generator as a SOR line item.	PIA to propose methodology
15	6.3 Network Civil Infrastructure		Bare shell infrastructure of approx. 10,000 sq ft shall be allocated by APSFL to PIA for NOC.	51	Please let us know the location and tentative date by which the NOC building would be handed over to the MSI.	Details will be shared on signing of contract
16	Section 6.3	Building Management System(BMS)	General	53	Please share details requirement and quantity of BMS sub line items like CCTV, Smoke detector, Biometric and Proximity Card, Rodent Repellent System etc.	Bidder have to design the Network Operation centre and bidder have to plan for BMS at DC NOC and DR NOC.
17	Section 6.3	Network Operation Centre (NOC) & BMS	This facility involves setting up a NOC & BMS with following requirements: • Should have video wall • Workstations • The N/W points should be brought to Desktop Workstations	53	How many workstations and displays to be considered in DC NOC and DR NOC respectively?	Bidder have to design the Network Operation centre and bidder have to decide number of work stations, apart from Providing 10-seater capacity support centre at DC NOC and DR NOC. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.
18	7. Service Level Agreements	SLA Penalties	KPI Values Definition?	55	SLA penalties are based on the KPI values. Please define the KPIs in detail.	KPI Shall be mutually agreed between APSFL & Bidder at the time of signing of Contract. The Agreed KPIs shall be defined and monitored through OSS.
19	7. Service Level Agreements	SLA Penalties	What are instances for calculating penalty?	55	As per 7. Service Level Agreements, Page 55, SLA penalties are based on the number of instances. Please define the instances leading to a deduction as SLA penalty in detail.	Each instance means number of fault occurrence times
20	Testing and Quality Assurance Process		The works shall be deemed to have been completed only after the same has been accepted by APSFL/PMA as per the process mentioned in this tender and after it has been informed by PMA to APSFL confirming the completion of work.	58	Kindly clarify the criteria in detail which shall be considered during the acceptance test, which shall be considered as the completion of the GP and the project itself.	Clause is self explanatory
21	11 Solar Hybrid - UPS	Specifications of Solar Hybrid UPS mentioned	Solar hybrid UPS	87	The specification has been removed in the corrigendum. However, as per the RFP, the power supply is in MSI's scope. Please clarify. Do we need to provide any Hybrid Solar UPS. Please confirm. In case power is not available at GP, then please confirm that PIA shall be paid once the routers are physically installed at GPs. In case SPV systems are in MSI scope, please confirm the procedure/alternation option in case space is not available for the installation of Solar panels at the GPs.	Please refer corrigendum. Prior intimation of schedule of installation have to be provided by SI

22	3.9 Work to be completed by the Scheduled Completion Date	Liquidated Damages	Correct LD Clause (0.5%/0.7% or 0.1%PO)	143	As per Page 29, LD will be levied at 0.5% of implementation cost of delayed GPs per week of delay until 13 weeks and 0.7% of implementation cost of delayed GPs per week until next 13 weeks with a cap on LD at 10% of the project cost excluding O&M cost. As per 11.7 Annexure G: Indicative Master Service Agreement, Page 143, Liquidated Damages consist of 0.1% of contract value or part of contract value for a milestone/quarter with a cap on LD at 10% of the contract value. Please clarify.	Clause no 3.9(4) shall prevail and capping on LD as per clause 6.10.3
23	Payment Schedule	Performance Bank Guarantee	PBG - for whole duration or till start of O&M	143	As per page 143, PIA needs to submit a PBG of 10% of Contract Value valid up to a period of 6 months after the contract completion period. As per Payment Schedule, Page 150, O&M PBG needs to be submitted before start of O&M. Please clarify on the value of all the Bank Guarantees to be furnished and their validity periods.	O&M Performance Bank Guarantee to be given shall be 10% of annual avg of O&M Cost for 7 years. The validity of PBG shall be for 7 years or a minimum of 3 years which shall be extended further for a total time period of 7 years. The Extended/revised PBG shall be submitted 6 months prior to the date of expiry of the previous PBG
24	11.7 Annexure G: Indicative Master Service Agreement	Payment Schedule	Commencement of O&M & Payment for O&M	150	Kindly request you to start the O&M payment for a GP once it gets commissioned.	No Change
25	11.7 Annexure G: Indicative Master Service Agreement	Payment Schedule	70% of the payment for supply to be released after delivery of materials	150	Please let us know if the materials need to be delivered at a central location or at the GPs for release of 70% of the payment for supply.	Central location
26	General	General	Payment if delay is due to non availability of Fiber	-	In case there is delay on part of the contractor responsible for laying of the fiber, we request you to establish a criteria for performing local Acceptance Testing upon which the payment for the concerned GP shall be released to the MSI.	You have to provide schedule of work prior to the commission of GP
27	General	General	Extended stay provision	-	In case there is delay on part of the contractor responsible for laying of the fiber and also its not possible to perform local Acceptance Testing, we request you to provide suitable extension to the MSI with other cost considerations as well.	Please refer 3.12
28	General	General	General	General	Kindly include all necessary components (like SMS, E-MAIL, GATEWAY, DHCP, DNS & IPAM, etc.) in the SOR which are asked in the functional requirement.	Please refer Corrigendum
29	General	General	Is APSFL a Government department or Government entity or Governmental authority as defined in GST?	General	Kindly confirm whether APSFL is a Government department or Government entity or Governmental authority as defined in GST and whether the project is for non-commercial purpose.	APSFL is a Government entity
30	General	Warehouse/Store locations for inspection/verification by APSFL	Warehouse/Store locations for inspection/verification by APSFL	General	Kindly clarify on the warehouse/store locations where the inspection/verification for the materials would be performed by APSFL. Also, request you to provide space for stores during the implementation period.	Inspection will be surprise inspection. Warehouse have to be planned by PIA
31	11.1.17 UPS Specifications	On-line 20 KVA (1+1) UPS system:	4) OUTPUT PARAMETERS 4.1) Configuration single phase & Neutral		20kva will come with three phase o/p, kindly change the specification to 3 ph 4 wire output system , 400V nominal.	Please refer corrigendum
32	11.1.17 UPS Specifications	On-line 20 KVA (1+1) UPS system:	INPUT PARAMETERS 3.1) Configuration Three phase & Neutral 3.1.1) Nominal Voltage 415V		Kindly change the nominal voltage to 400V, to meet the voltage range 320V to 480, leading OEM have the voltage range from +/- 20% from nominal voltage 400V.	Please refer corrigendum
33	11.1.3 (RFP) and 2.1.3 -(corrigendum 3)	GP IPMPLS Node	S.NO. 34 The OEM should be listed in Gartner Magic Leaders/Visionaries Quadrant for wired or wireless segment year 2017		It is understood that clause 2.13 (s.no- 34) from RFP is deleted.	Yes
34	11.1.8 Network Rack Specification	Access Control	Smart card reader (with relevant software along with licenses if needed) Integrated Electronic door lock should have digital locking to permit only authorized persons to open the doors through either Smart Card (ISO/IEC 14443 Type A 13.56 MHz) or Mobile NFC.		We understand that Access control system is required only for equipment rack provided at GP/Block. Please clarify.	Access Control is required for all the racks at GP/Block/Master Block
35	11.1.8 Network Rack Specification	Access Control	Smart card reader (with relevant software along with licenses if needed) Integrated Electronic door lock should have digital locking to permit only authorized persons to open the doors through either Smart Card (ISO/IEC 14443 Type A 13.56 MHz) or Mobile NFC.		Please confirm that PIA need to provide smart card along with access control? If yes, kindly provide the total number of smart cards required.	Details will be shared on signing of contract
36	11.1.8 Network Rack Specification	Solar Hybrid – Uninterrupted Power Supply	Solar Hybrid – Uninterrupted Power Supply		In the corrigendum Solar Hybrid is not mentioned. So we understand through the latest corrigendum is that PIA need to supply only 700 VA UPS. Please clarify.	Yes, the Power infra is part of the rack and should be monitored from the rack monitoring system
37	2.1.6 Corrigendum 3	OSS- Service & Resource Inventory (SRI)	"Proposed Service & Resource Inventory System Data Model should consists of" AND "Proposed Service & Resource Inventory system GUI should offer"		Clause incomplete. Kindly provide the complete clause sentence.	Please refer corrigendum
38	corrigendum-3	2.1.8 Network Racks specifications 2.1.8.1 Gram Panchayat Network Racks	5 Rack Power Supply and PDU 5.7 Operating Temperature: 0 to 65°C		Kindly change the operating temperature 0 to 40 deg C as 65 deg C will be not available in the market.	Please refer corrigendum
39	Corrigendum-4: 11.1.1 Master Block/Mandal Hub Node	7	Proposed router should support switching capacity of at least 10 Tbps, full duplex		The number of interface asked at day1 in the RFP are not more than 1,024 Tbps (6 x 100 G + 40 x 10 G + 24 x 1 G SFP) in total. Considering scalability for future expansion (2 x 100G) will increase the requirement to 1.3Tbps. Even 2500 Mpps requirement mentioned in the subsequent Clause#8 is corresponding to 1.8 Tbps system capacity. 10 Tbps router will unnecessarily increase the cost of project. Therefore we request to kindly modify the clause to the following: "Proposed router should support switching capacity of at least 2 Tbps, full duplex"	No change
40	Corrigendum-4: 11.1.10 Core IP MPLS Routers	2	Router should have 128k multi cast routes.		The scaling numbers asked for Core IP MPLS Routers 100 G Node is very high. The asked scale would limit the OEMs participation in the bid. We request to optimize scale as per following and allow maximum OEMs to participate in the bid which would lead to a competitive bidding: In a multicast implementation routes are summarized and in no circumstances a core router would need 128K multicast routes " Router should have 64k multicast routes. "	Please refer corrigendum
41	Corrigendum-4: 11.1.11 Core Switch	3	Switch should support 8K IGMP Group and scalable to 32K Group with/without Multi chassis ether channel (MCEC) deployment.		The scaling numbers asked for Core Switch Node is very high. Core switch would not be used to terminate large scale Multicast Receivers. Asked scale will increase overall cost of the project heavily. We request to optimise this values as per following recommendation: " Switch should support 2K IGMP Group and scalable to 4K Group with/without Multi chassis ether channel (MCEC) deployment. "	No change
42	Corrigendum-4: 11.1.11 Core Switch	4	Switch should support 8K Multicast route and scalable to 32K Route with/without Multi chassis ether channel (MCEC) deployment.		The scaling numbers asked for Core Switch Node is very high based on requirement (2K is sufficient for IGMP Group). Asked scale would push all the OEMs to quote bigger routers at Node, which will increase overall cost of the project heavily. We request you to optimise this values as per following recommendation: " Switch should support 2K Multicast route and scalable to 4K Route with/without Multi chassis ether channel (MCEC) deployment. "	No change

43	Corrigendum-4: 11.1.2 Block/Mandal IP/MPLS Node	12	The proposed router should support the following: a. 512,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 16,000 multicast routes e. 4 labels in label stack		16000 multicast routes and 512,000 MAC address scale requirement is on higher side. It is observed that even in a large Service Provider network, not more than 1000-1500 multicast routes and 200K MAC are required in aggregation layer. Asking for such a large number of multicast routes and MAC addresses will push the OEMs to quote a bigger router and will escalate the overall cost of the project. Therefore we request to change this clause to the following: "The proposed router should support the following: a. 250,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 4,000 multicast routes e. 5 labels in label stack"	Please refer Corrigendum
44	Corrigendum-4: 11.1.3 GP IP/MPLS Node	4	The proposed router should support minimum of the following ports: 6 x 10 GE (SFP+) + 12 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 6 x 10 G 10 Kms, 4 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1		Access Routers are fixed configuration boxes and are non-upgradable for most of the OEMs. Moreover, the port requirement is favouring specific OEM. Also, 24x1G + 6x10G = 84 Gbps line rate performance will be required and not 64 Gbps as asked in "11.1.3 GP IP/MPLS Node Clause # 5". Hence, we request you to change this to following. "The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 10 Kms, 4 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1"	No change
45	Corrigendum-4: 11.1.3 GP IP/MPLS Node	9	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack		The scaling numbers asked for GP IP/MPLS Node are very high based on requirement. Asked scale would push all the OEMs to quote bigger routers at GP IP/MPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values as per following recommendations "The proposed router should support at least the following: a. 50K MAC Addresses b. 30K IPv4 unicast routes c. 12K IPv6 routes d. 1K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack"	Please refer corrigendum
46	Corrigendum-4: 11.1.3 GP IP/MPLS Node	10	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/HVPLS. Min. 100 MPLS VPN instances, 2048EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE.		The EoMPLS scaling numbers asked for GP IP/MPLS Node are very high for such a small routers. Asked scale would push all the OEMs to quote bigger routers at GP IP/MPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values based on the actual requirements and modify the clause as "a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 512 EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing /Segment Routing TE/Seamless MPLS"	No change
47	Corrigendum-4: 11.1.3 GP IP/MPLS Node	17	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 3 level HOOS		For access router, 2 level HCoS is sufficient. Kindly modify the clause as "Proposed router should support QoS mechanism for end-to-end bandwidth and at least 2 level HOOS"	No change
48	Corrigendum-4: 11.1.3 GP IP/MPLS Node	28	The Router should support the following programmability features: • The router should support NETCONF/RESTCONF interface for device configuration • The router should support Openconf or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models		YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML. In view of the above, we request APfiber to Modify the clause as "The Router should support the following programmability features: • The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration • The router should support Openconf/ IETF based YANG models/SNMP/RESTAPI/XML. • The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF/YANG models"	No change
49	Corrigendum-4: 11.1.3 GP IP/MPLS Node	37	The routers shall provide hardware accelerated IETF Netflow or equivalent feature. This feature shall be available for all interfaces provisioned on the router with hardware acceleration.		Flow information is collected in any network at Aggregation/Core Layer. At access layer flow information is not required at all. Infact enabling flow information will unnecessarily load the CPU of router and will impact the forwarding performance. Hence, we request to remove the clause.	No change
50	General	UPS	Operating Temperature 0 to 65 deg C		Kindly change the operating temperature 0 to 40 deg C as 65 deg C will be not available in the market.	Please refer corrigendum
51	Section 11.1.4	Servers and Applications Requirements	General		Kindly explain about the backup/archival mechanism of data. After how many months the data/logs are to be moved from online storage to offline storage and for how many months the logs/data should be archived?	One Year
52	Section 11.1.4	Servers and Applications Requirements	There should not be any silos of any servers and all infrastructure should be virtualized to make effective utilization of the resources by making use of the industry standard private cloud solutions such as Openstack (or) Azure Stack or any other similar private cloud platform.		We understand that all the data center equipments are co-located with DC-NOC and DR-NOC on premises and provided with necessary virtualization to make effective utilization of the resources. Please clarify.	On premises Private cloud
53	11.1.15-Firewall	1.4	Should have a throughput of minimum 40gbps firewall throughput, 13Gbps of Application Inspection and 4 Gbps of VON throughput		Should have a throughput of minimum 130gbps firewall throughput, 13Gbps of Application Inspection and 40 Gbps of VON throughput	No change
54	11.1.15-Firewall	1.6	New connections per second 325,000, 1000 VLANs and 100 Virtual firewalls		Please change the clause to "New connections per second 900,000 or more and support 1000 VLANs"	No Change
55	11.1.15-Firewall	1.11	Should have 2 USB 2.0 ports		Please change the clause to "Should have 1 or more USB 2.0 ports"	No Change
56	11.1.15-Firewall	1.13	Should support integrated IP sec and Client and Clientless SSL VPN		Please change the clause to "Should support integrated IP sec and Client o Clientless SSL VPN"	No Change
57	11.1.15-Firewall	1.19	Firewall should support Web based (HTTP and HTTPS) configuration, and management		Please change the clause to "Firewall should support Web based (HTTP / HTTPS) configuration, and management"	No Change
58	11.1.15-Firewall	1.126	The FW should deliver per-flow, policy-based QoS services, with support for LLQ and Traffic Policing for prioritizing latency-sensitive network traffic and limiting bandwidth usage of administrator-specified applications		Please delete the clause	No Change
59	11.1.15-Firewall	1.29	IPv6-enabled inspection services for applications based on HTTP, FTP, SMTP, ICMP, TCP, and UDP. In addition, SSHv2, Telnet, HTTP and HTTPS, and ICMP-based management over IPv6.			No Change
60	11.1.15-Firewall	1.03	support for network monitoring using SNMP Versions 1, 2c, and 3, and supports the use of all three versions simultaneously.		Please change the clause "support for network monitoring using SNMP Versions 1, 2c, and 3."	No Change
61	11.1.15-Firewall	1.33	The Firewall must have support for virtual fire walls and include at least 2 virtual firewalls without any additional license costs		Please delete the clause	No Change

62	11.1.15-Firewall	2.7	Should support Endpoint Assessment that examines the remote computer for a large collection of antivirus and antispayware applications, associated definitions updates, and fire walls	Please delete the clause	No Change
63	11.1.15-Firewall	2.1	For Windows Mobile Devices, should have capability to write Lua expressions in Dynamic Access Policies (DAPs) to perform posture checks on those attributes unique to mobile devices	Please delete the clause	Deleted
64	11.1.15-Firewall	2.16	The secure appliance should support advanced transformation capability that helps ensure compatibility with Web pages containing complex content, including HTML, Java, ActiveX, JavaScript, and Flash. In addition, should provide filtering of ActiveX and Java applets to prevent downloads of malware	Please change the clause to "The secure appliance should support advanced transformation capability that helps ensure compatibility with Web pages containing complex content, including HTML, Java, ActiveX, JavaScript, and Flash. In addition, should provide filtering/equivalent mechanism of ActiveX and Java applets to prevent downloads of malware"	No Change
65	11.1.15-Firewall	2.17	The device should detect Key Logger applications and prevent user access	Please delete the clause	No Change
66	11.1.15-Firewall	3.7	Q-in-Q double VLAN	Please remove this clause	Deleted
67	11.1.15-Firewall	3.8	Concurrent Threat Mitigation Throughput (Mbps) (Firewall + IPS Services) should be 2gbps	Please remove this clause	No Change
68	11.1.15-Firewall	3.01	Identify the source of denial of service (DoS), distributed denial of service (DDoS), SYN flood, and encrypted attacks	Please change the clause to "Identify the source of denial of service (DoS) / distributed denial of service (DDoS), SYN flood, and encrypted attacks"	No Change
69	11.1.15-Firewall	3.11	Use patented anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques.	Please change the clause to "Use patented / equivalent anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques."	Refer corrigendum
70	11.1.14-AAA Server	1	The AAA Server should provide authentication services to all the users connecting to the network, should enforce security policies on the end stations.	Please change the clause to "The AAA Server should provide authentication services to all the users connecting to the network, should enforce security policies on the end stations / network infrastructure"	Refer corrigendum
71	11.1.14-AAA Server	19	The AAA Server should be able to support large networked environments with support for redundant servers, remote databases, and user database backup services	Please change the clause to "The AAA Server should be able to support large networked environments with support for redundant servers, remote databases, and user database / configuration data backup services"	Refer corrigendum
72	11.1.14-AAA Server	20	Windows Active Directory support to consolidate Windows username and password management and uses the Windows Performance Monitor for real-time statistics viewing	Please remove this clause	Deleted
73	11.1.14-AAA Server	24	Tight coupling with Routers and VPN solutions to provide features such as Multi chassis Multilink Point-to-Point Protocol (PPP) and Router/Switch Software command authorization	Please remove this clause	Deleted
74	11.1.14-AAA Server	26	It should also provide dynamic quotas for time-of-day, network use, number of logged sessions, and day-of-week access restrictions.	Please remove this clause	No Change
75	11.1.11-Core Switch	8	The switch should support up to 16K Ingress ACLs and up to 54K egress ACLs. It should support Security and QoS ACL's.	The switch should support 16K ACLs in addition to Security and QoS ACL's.	Refer corrigendum
76	11.1.3 - GP IP/MPLS Node		The proposed router should support minimum of the following ports: 6 x 10 GE (SFP+) + 12 x 1G(SFP) + 4x (R-45) Router should be Populated with 6 x 10 G Kms, 4 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1	The proposed router should support minimum of the following ports: 22 x 1G / 10Gig port from DAY 1	Refer corrigendum
77	11.1.3 - GP IP/MPLS Node		The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack	The proposed router should support at least the following: a. 64K MAC Addresses b. 100K IPv4 unicast routes c. 32K IPv6 routes d. 4K multicast routes e. 1,000 MPLS labels f. 4 labels in label stack	Refer corrigendum
78	11.1.3 - GP IP/MPLS Node		Proposed router should support switching capacity of at least 64 Gbps full duplex	Proposed router should support switching capacity of at least 260 Gbps full duplex	Refer corrigendum
79	11.1.3 - GP IP/MPLS Node		All ports in the proposed router's total forwarding performance should be 90 MPPS or more	All ports in the proposed router's total forwarding performance should be 260 MPPS or more	Refer corrigendum
80	11.1.2 - Block/ IP MPLS Node		Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing	Request you to change the operating temperature from 0 to 65 degrees	No change
81	11.1.2 - Block/ IP MPLS Node		Router should have support for 6x100GE ports should be distributed among different slots, at least 20x10GE ports should be distributed among different slots, at least 20x1GE ports should be distributed among 6 different slots for better redundancy	Router should have support for 4x100GE ports should be distributed among different slots, at least 20x10GE ports should be distributed among different slots, at least 20x1GE ports should be distributed among different slots for better redundancy	No change
82	11.1.1 Master Block / Mandal Hub Node		The Proposed router should have CG-NAT features supporting at least 20 million translations with all required cards and licenses should be configured from day1	The Proposed router should have CG-NAT features supporting at least 40 million translations and 120 gbps of traffic handling capability with all required cards and licenses should be configured from day1 can be internal / external	No change
83	2.1.2 Block/Mandal MPLS Node , S.No 7		Proposed router should support switching capacity of at least 800 Gbps Full Duplex	According to the port requirements, The Backplane calculation is wrong.The proposed Router should have Switching capacity of atleast 1280 GBPS. (Logic : 6*100G+20*10G+20*1G=820G, switching capacity should not less than 1280 Gbps	No change
84	2.1.3 GP IP MPLS Node , S.N 5		Proposed router should support switching capacity of at least 64 Gbps full duplex	According to the port requirements, The Backplane calculation is wrong. Switching Capacity = atleast 128 Gbps (Logic : 6*10G+ 20*1G=80G, so switching capacity should not less than 128 Gbps.)	Refer corrigendum
85	2.1.11 Core Switch S.No. 3 Layer 2 Features		Should support routing protocol IP v4 - Static routing, OSPF v 2, EIGRP, BGPv 4, IS-IS and IP v6 - BGP, OSPF v 3. The switch must support Bidirectional Forwarding detection on OSPF and BGP.	EIGRP is Cisco Proprietary: Should support routing protocol IP v4 - Static routing, OSPF v 2, EIGRP, BGPv 4, IS-IS and IP v6 - BGP, OSPF v 3. The switch must support Bidirectional Forwarding detection on OSPF and BGP.	Refer corrigendum
86	2.1.11 Core Switch S.No. 3 Layer 3 Features		Switch must support IP v4 - HSRP and VRRP and IP v6 - HSRP v 6 and VRRP v6. It must also support DHCP Relay V4 and V6.	HSRP is Cisco Proprietary: Switch must support IP v4 - HSRP and VRRP and IP v6 - HSRP v 6 and VRRP v6. It must also support DHCP Relay V4 and V6.	Refer corrigendum
87	2.1.11 Core Switch S.No. 3 Management and Operation Features		Should support port mirroring feature for monitoring network traffic of a particular port/VLAN/group of ports/entire switch. The switch should support 16 SPAN Session and scale up to 32 SPAN N session.	SPAN is Cisco Terminology. PORT Mirroring is Industry standard. We can support 8 sessions with each session capable of mirroring 64 ports. Suggest changing the sessions to 8.	Refer corrigendum
88	2.1.11 Core Switch S.No. 3 Interfaces		8 ports 40 Gig OSFP, 48 ports 1/10G Fiber module with transceivers (short range) and 48 ports 1/10 G - T module.	No 40G port in network still 40 G is being asked on switch. Suggest revising the port requirements. Maximum support : 384 X 1G, 384 X 10G ports & 96 X 100G ports. In one of the clauses, the language is too open like: "144 x 10 G interfaces with appropriate SFP+ loaded" What is the meaning of Appropriate.	Refer corrigendum
89	Clause 10.1 Point no. 32, 33 & Clause no. 2.3.1 S.No. A General Eligibility - Eligibility Criteria point No.4		32.Legally binding agreement with the OEM/ ToT Partner for supply, installation and commissioning of IP/MPLS for 7 years Operation & maintenance period (including warranty period) 33.Legal binding Agreement with the Manufacturers	Instead of Legal Binding agreement or Teaming Agreement , MAF should Suffice. Please change the requirement.	The bidder shall provide MAF from OEM clearly mentioning OEM support for supply, warranty, installation & commissioning and support for period of seven years in O&M phase.
90	S. No 1 BBNL/MPLS_C4 , Annexure III Payment Terms		Documentry Evidence - Against submission of BG of 110% of mobilization advance	In the main Table the Documentary Evidence is Against submission of BG of 110%of mobilization advance whereas below the table in the footer section the information is Mobilization advance Documentary Evidence: 1. Sign of Agreement 2. Submission of PBG of 100%. Please clarify the exact clause	BG should be 110% of mobilization advance

91	c. Third Milestone	144,35.36	Balance 5 % payment of the cost towards supply of material and services will be made after start of O&M and submission of O&M PBG.	35		No change
92	c. Third Milestone	Point 4	After start of Operations and Maintenance (O&M) on submission of O&M Performance Bank Guarantee (PBG)	35		No change
93	Performance Security	10.11.17	PIA shall furnish Performance Security to the APSFL at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee Bond from a Nationalized/Scheduled Bank in the Performa given Section within 15 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period.	35	Our understanding as per the RFP is that at the time of signing the Contract PIA need to provide PBG for 10% of contract value , as per Clause no 35(c. Third milestone point SI 4 on submission of O&M PBG) APSFL will release the PBG to PIA and new PBG will be provided by PIA for O&M phase .	Yes
94	Solvency Certificate	9.2	Solvency Certificate	120	We are unable to arrange solvency certificate as per your required format. Please appreciate that now banks will provide solvency certificate their own prescribed format. However we assure that content of the given certificate will covers in the bank prescribed format. Attached Draft Solvency Certificate	Solvency certificate can be submitted as per respective bank formats but should cover all the points in given format.
95		2.1.10 Core MPLS Router S No. 2 Performance	Router shall have 128K Multicast Routes		Router shall have 64K Multicast Routes	Refer corrigendum
96		2.1.10 Core MPLS Router S No. 6 Management	Should have IPv4 Routing ,Border Gateway Protocol , Intermediate System-to-Intermediate System [IS-IS], and Open Shortest Path First [OSPF], Route Policy Language (RPL), Hot Standby Router Protocol (HSRP)/ Virtual Router Redundancy Protocol (VRRP), IPv6 Routing, and BGP Pre fix Independent Convergence ,GRE (Generic Routing Encapsulation) Tunneling, Multi cast routing protocols IGM Pv1,v2 ,v3, PIM -SM (RFC2362) and PIM- SSM,MSDP,IGMP v2 snooping,DHCPv6 and OSPFv3 for IPv6,6PE & 6VPE,MPLS Provider /Provider Edge functionality. MPLS VPN, MPLS MVPN (Multi cast VPN), Carrier Supporting Carrier (CSC), DiffSe rv Tunnel Modes, MPLS TE (Fast re-route), DiffSe rv-Aware TE, Inter-AS VPN, Resource Reservation Protocol (RSVP), VPLS, VPWS, Ethernet over MPLS, CESo PSN and SAToP as per RFC 4553		Should have IPv4 Routing ,Border Gateway Protocol , Intermediate System-to-Intermediate System [IS-IS], and Open Shortest Path First [OSPF], Route Policy Language (RPL), Hot Standby Router Protocol (HSRP)/ Virtual Router Redundancy Protocol (VRRP), IPv6 Routing, and BGP Pre fix Independent Convergence ,GRE (Generic Routing Encapsulation) Tunneling, Multi cast routing protocols IGM Pv1,v2 ,v3, PIM -SM (RFC2362) and PIM- SSM,MSDP,IGMP v2 snooping,DHCPv6 and OSPFv3 for IPv6,6PE & 6VPE,MPLS Provider /Provider Edge functionality. MPLS VPN, MPLS MVPN (Multi cast VPN), MPLS TE (Fast re-route), DiffSe rv-Aware TE, Inter-AS VPN, Resource Reservation Protocol (RSVP), VPLS, VPWS, Ethernet over MPLS, CESoPSN and SAToP as per RFC 4553	Refer corrigendum
97		2.1.10 Core MPLS Router S No. 8 Management	The router should support RFC 3107 of carrying Label Information in BGP-4.		RFC 3107 is updated in RFC 7447. The router should support RFC 7447 of carrying Label Information in BGP-4.	Refer corrigendum
98		2.1.11 Core Switch S.No. 3 Layer 2 Features	Should support Protocol Independent Multicast - Sparse Mode and PIM - ASM for IPv4 and MSDP for IPv6. It should also support Any Cast Routing Protocol (Any cast RP).		Any-source multicast (ASM) is the older and more usual form of multicast . Suggest to change as :-Should support Protocol Independent Multicast - Sparse Mode and PIM - SSM, PIM DM for IPv4 and MSDP. It should also support Any Cast Routing Protocol (Any cast RP).	Refer corrigendum
99		2.1.11 Core Switch S.No. 3 Layer 3 Features	Switch must support virtualization features like VXLAN Gateway/Bridging and routing functionality to support VMware hypervisor connectivity and also to normalize it for VMware VM to bare metal server / VMware VM to other hypervisor VM communication.		Suggest removing as VXLAN is already asked other clauses in same RFP	Refer corrigendum
100		2.1.11 Core Switch S.No. 3 Layer 3 Features	Switch must support NVGRE protocol to support Microsoft hypervisor connectivity and also normalize it for Microsoft hypervisor VM to remote server / Microsoft hypervisor VM to VMware Hypervisor VM communication.		NVGRE & VXLAN are Equivalent in terms of End objective. VXLAN is more accepted and more widely deployed. Suggest removing NVGRE as VXLAN is already asked other clauses in same RFP	Refer corrigendum
101		2.1.11 Core Switch S.No. 3 Management and Operation	should support Linux tools, Bash and Power Shell, Python Shell and XMPP Client		Too Specific for a model. Its for Linux based systems. Suggest to Remove. Already management requirements are clear in RFP	Refer corrigendum
102		2.1.11 Core Switch S.No. 3 Management and Operation	The switch should support configuration verification and roll-back.		Suggest :The switch should support configuration restore.	No change
103		2.1.11 Core Switch S.No. 3 Layer 3 Features	Should support Protocol Independent Multicast - Sparse Mode and PIM - ASM for IPv4 and MSDP for IPv6. It should also support Any Cast Routing Protocol (Any cast RP).		Any-source multicast (ASM) is the older and more usual form of multicast . Suggest to change as :-Should support Protocol Independent Multicast - Sparse Mode and PIM - SSM, PIM DM for IPv4 and MSDP. It should also support Any Cast Routing Protocol (Any cast RP).	Refer corrigendum
104		2.1.11 Core Switch S.No. 3 Environment	Operating temperature: -5 to 40 degrees		AP Geography would never demand -5 degrees C. Suggest changing it to 0 degrees to 40 degrees	Refer corrigendum
105		2.1.11 Core Switch S.No. 3 Security Features	The switch should support up to 16K Ingress ACLs and up to 54K egress ACLs. It should support Security and QOS ACL's.		The switch should support up to 128K ACLs It should support Security and QOS ACL's.	Refer corrigendum
106	11	11.1.10 2	The router should support minimum 2 million MAC address, minimum 128k Pseudo wires	90	Definitely, in most cases, the Layer 3 MPLS VPN will run on core router layer. But as per our understanding, "Core IP MPLS Routers 100 G" do not require such big capacity MAC address and 1 million MAC address is totally enough. Therefore, request to change to 1 million MAC address.	Please refer Corrigendum
107	1.3	Notice Inviting Tender (NIT)	Cost of the tender - DD/Bankers Cheque of an amount of INR 5,00,000/- (Rupees Five Lakhs only) including GST	5	Request for an amount of INR 1,00,000/- (Rupees One Lakhs only) including GST towards cost of the tender	Please Refer Corrigendum
108	1.7	Notice Inviting Tender (NIT)	Bid Security - INR 10 crores (Rupees Ten crores only)	5	Request for Bid Security of INR 1 crores (Rupees one crores only) as Bid Security	No change
109	2.2.2 Set 2	Technical Bid Documents Format	For Sole Bidder/Consortium- ISO 9001, ISO 27001:2005	11	For Sole Bidder/Consortium- ISO 9001 or ISO 27001:2005	No change
110	2.2.2 Set 2	Technical Bid Documents Format	Minimum Cumulative turnover of the bidder/consortium from last 3 FYs from activities relating to IT Systems Integration services / IT services / Network services / Telecom services / NMS / OSS/ BSS services in India or abroad should be Rs. 450 Cr.	11	Minimum Cumulative turnover of the bidder/consortium from last 3 FYs from activities relating to IT Systems Integration services / IT services / Network services / Telecom services / NMS / OSS/ BSS services in India or abroad should be Rs. 400 Cr.	Please Refer Corrigendum
111		Project Experience	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	15	The Lead bidder /Consortium should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network. This will increase the competition.	Please Refer Corrigendum
112	2	2.26	PIA shall furnish Performance Security to the APSFL at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee Bond from a Nationalized/Scheduled Bank in the Performa given Section within 15 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period.	23	We request you to amend this clause as "PIA shall furnish Performance Security to the APSFL at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee Bond from a Nationalized/Scheduled Bank in the Performa given Section within 45 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period."	No change

113	2	2.29	<p>Rejection of Bids</p> <p>1. While all the conditions specified in the Bid documents are critical and are to be complied, special attention of Bidder may be invited to certain specific important eligibility conditions/ documents, non-compliance of any one of which may lead to outright rejection of the bid:-</p> <p>a. Bid not sealed properly</p> <p>b.--</p> <p>c.--</p> <p>j. If the Solvency Certificate as per format provided is not submitted.</p>	23	Generally, Banks use to provide solvency certificate in their own format. This condition should not be kept as a reason of rejection of bid.	Solvency certificate can be submitted as per respective bank formats but should cover all the points in given format.
114	3.17	Payment Terms	Mobilization advance of 10% of the PO value will be given to the vendor, on its request, against submission of Bank Guarantee of equivalent amount	33	As in Page 34 in table Documentary evidence is " Against submission of BG of 110% of mobilization advance " this needs to be corrected as " against submission of Bank Guarantee of equivalent amount " same as page 33	Please Refer Corrigendum
115	3.17 Page 34	3	Commissioning of GPs in a month	34	We understand that the definition of GP Commissioning would be treated as commissioned once GP is integrated with ems/NMS at NOC. Therefore the documentary evidence required to submit would be a self certified NOC report on the same. Kindly Confirm.	Accepted
116	3.17 Page 34	3	Definition of Block commissioning.	34	<p>Definition of Block Commissioning</p> <p>We understand that Block would be treated as commissioned once</p> <p>a. Block IP/MPLS equipments are integrated in ems/NMS at NOC.</p> <p>B. 25% GPs in Block is also integrated with ems/NMS at NOC. Please clarify.</p>	<p>Definition of Block Commissioning</p> <p>Block would be treated as commissioned once</p> <p>a. Block IP/MPLS equipments are integrated in ems/NMS at NOC.</p> <p>B. 80% GPs in Block is also integrated with ems/NMS at NOC.</p>
117	6.1	Network Architecture	"The Network being planned will be using Multiprotocol Label Switching (IP/MPLS) to establish a packet-switched transport network."	49	<p>The term IP/MPLS Router used in the RFP should be broadened to be MPLS Router. This will allow both IP/MPPLS and MPLS-TP equipment to be offered that can deliver ALL the services asked for in the RFP.</p> <p>This also will increase the vendor base and ensure that latest technology (MPLS-TP), standardized in 2009-2011, is available to the state instead of IP/MPLS that was standardized in 1999-2001. We recommend the clause to be modified as ""The Network being planned will be using Multiprotocol Label Switching to establish a packet-switched transport network." Kindly confirm</p>	No change
118	GP IP/MPLS Node/11.1.3	34	The OEM should be listed in Gartner Magic Leaders/Visionaries Quadrant for wired or wireless segment year 2017	76	<p>The Network being planned is for mission critical applications. Thus, this is more like a Telecom Service Provider network with critical SLAs.</p> <p>Gartner report focusses more on Enterprise Grade networks and Telecom service providers in India have never used this as an eligibility criteria or benchmark for selection of equipment / OEM vendors. By putting the condition of few quadrants of Gartner report, the RFP is limiting / restricting to a single vendor only and eliminating healthy industry competition. we therefore request for deletion of this clause or as per point no 6 at page 17 under OEM eligibility should be in Top Five position globally as per third party reports likes of Gartner's / Forester / IDC / OVUM / INFONETICS for each respective domain."</p>	Please Refer Corrigendum
119	11.1.5 Network Management Requirements	11	Capacity and Utilization of the WAN links should be shown in the topology.	77	Request for removal. Specific to a Network hardware device vendor. Different OEMs would show the capacity and utilization in different ways. So please change this to "Utilization of the WAN links should available from the NMS tool"	Please Refer Corrigendum
120	11 Page 97	11.1.14	Tight coupling with Routers and VPN solutions to provide features such as Multi chassis Multilink Point-to-Point Protocol (PPP) and Router/Switch Software command authorization.	97	<p>This clause is not related to AAA because of following reason</p> <p>1. Multi chassis Multilink Point-to-Point Protocol (PPP) is related to dial-in internet access. Since this project does have any relation to dial-in access, please remove this clause.</p> <p>2. Router/Switch Software command authorization is done by ems.</p> <p>AAA can be configured with Router/Switch only for User authentication for login into system. However this way of authentication does not help in knowing who has accessed system with privileged User which is normally shared by many person of Network Operation team. Please modify the clause</p>	No change
121	11 Page 120 to 121	11.1.16	Trouble Tickets (Case Management)	121	This section is about Customer trouble ticketing with Contact Center integration for CRM users. RFP does not mention about Network Trouble Ticketing system which will integrate with Fault Management system of NMS for creating tickets against alarm/events based on rules. These tickets are acted upon by Network Operation persons of PIA and these tickets follow hierarchy for resolution i.e L1->L2->L3 with SLA attached to each level. Please include Network Trouble Ticketing solution as part of SOR. Please also indicate sizing parameters like Concurrent Users.	Bidder has to provide Trouble Ticketing and SLA module as part of OSS solution.
122	2.1.1 Network Racks specifications	7.2	For Horizontal Cable Management Closed Type Cable Organizer to be provided for management of Horizontal and power cables.	2.1.1		Clause is self explanatory
123	2.1.1 Network Racks specifications	7.3	For the Field Cables / In-Rack Cable Management, 2 No Cable baskets made from 5mm thick wire should be provided for management of Vertical Cables	2.1.1		Clause is self explanatory
124	2.1.1 Network Racks specifications	8.1	The Rack should have ventilated rear & side doors to provide adequate airflow required by the major server manufacturers.	2.1.1		Please refer Corrigendum
125	2.1.1 Network Racks specifications	8.2	The Rack should have a maximum ventilation area for the Rear & Side doors	2.1.1		Clause is self explanatory
126	2.1.1 Network Racks specifications	8.3	The Rack should provide two Exhaust Fans Operated on 230V AC	2.1.1		Clause is self explanatory
127	2.1.1 Network Racks specifications	8.4	The manufacturer should provide blanking panel kit to prevent the Recirculation of hot exhaust air.	2.1.1		Clause is self explanatory
128	2.1.1 Network Racks specifications	8.5	The manufacturer should provide air seal kit to seal all gaps to prevent recirculation of hot air.	2.1.1		Clause is self explanatory
129	2.1.1 Network Racks specifications	8.6	The Manufacture should provide Brushed cable entry and exit cutouts to avoid cold air leakage.	2.1.1		Clause is self explanatory
130	2.1.1 Network Racks specifications	9.1	Racks should be manufactured by ISO9001:2008, 18001:2007, Certified company.	2.1.1		Please refer Corrigendum
131	2.1.1 Network Racks specifications	9.2	Manufacturer must certify that the products are Comply DIN41494 and Equivalent EIA/ISO/EN /CEA Standard.	2.1.1		Clause is self explanatory
132	2.1.1 Network Racks specifications	9.3	The rack should comply minimum of IP 20 rating.	2.1.1		Clause is self explanatory

133	2.1.1 Network Racks specifications	9.4	The enclosure should both protect the user from mechanical hazards and generally meet the requirements for a mechanical enclosure (stability, mechanical strength, aperture sizes, etc.) as defined in IEC 60950 as per the latest edition.	2.1.1		Please refer Corrigendum
134	2.1.1 Network Racks specifications	10.1	The Rack should have usable Space even after installing locks and supportive accessories.	2.1.1		Clause is self explanatory
135	2.1.1 Network Racks specifications	10.2	The OEM should include Mounting hardware for equipment fixing with Universal Headed Washer Base Type of Screw head.	2.1.1		Clause is self explanatory
136	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.1	All monitoring data shall transmit through both provisions of GSM Modem and Ethernet to NOC	2.1.1.2		no change
137	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.11	Local Visual indication for Mains ON/OFF, UPS Health, Rack Health	2.1.1.2		no change
138	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.12	Current consumption (UPS output) shall be monitor	2.1.1.2		Please refer corrigendum
139	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.6	Rack internal Temperature (inlet and outlet) & Humidity	2.1.1.2		no change
140	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.7	Door Sensor to detect open and Close of front door	2.1.1.2		no change
141	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.8	Input raw voltage and Output Voltage of UPS	2.1.1.2		no change
142	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.9	Exhaust fan ON/OFF control based on Rack internal temperature	2.1.1.2		no change
143	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	6.2	Rack Internal Cable Management for Vertical and Horizontal Cables	2.1.1.2		no change
144	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	6.3	Front Panel Mounting Hardware	2.1.1.2		no change
145	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	6.4	Brush Panel / Glands / Seals for all Cable Entry Points in the cabinet	2.1.1.2		no change
146	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	7.1	The manufacturer should supply 2 No cable management with detachable door in the front (On R & L Side) for management of Vertical Cables. These Cable Managers will have the Rigid Plastic Fingers in 1U Format to facilitate the cable management.	2.1.1.2		no change
147	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	7.2	For Horizontal Cable Management Closed Type Cable Organizer to be provided for management of Horizontal and power cables.	2.1.1.2		no change
148	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	7.3	For the Field Cables / In-Rack Cable Management, 2 No Cable baskets made from 5mm thick wire should be provided for management of Vertical Cables	2.1.1.2		no change
149	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	8.5	The manufacturer should provide air seal kit to seal all gaps to prevent recirculation of hot air.	2.1.1.2		no change
150	GCC	3.12 and 3.9	Any delay attributable to grant of permission by the requisite Right of Way APSFL or any other approvals beyond 30 days from the first application date shall be exempt from calculation of Liquidated Damage charges	33, 31	In case of any delay in completion of the Project/ achievement of milestone/keydates due to reasons of APSFL, then APSFL shall provide the necessary Extension of time and also compensate the PIA for such extended stay- PIs provide for the same	Clause is Self-Explanatory
151	Section 3-General Conditions of Contract	3.22 Materials to be provided by the PIA	The bidder shall enter into legally binding agreement with the OEM/ ToT Partner for supply, installation and commissioning during 7 years Operation & maintenance period (including warranty period). Copy of such agreement shall be furnished with the bid.	34	We understand Bidder's need not to submit separate Teaming Agreement as the MAF format provided in the RFP suffice the requirement as it confirms the support from OEM. Please allow bidders to submit teaming agreement agreement copy with OEMs during project execution. Please confirm. Still if bidder's need to submit separate Teaming Agreement apart from MAF, kindly share the format of Teaming agreements.	The bidder shall provide MAF from OEM clearly mentioning OEM support for supply, warranty, installation & commissioning and support for period of seven years in O&M phase.
152	Section 7 Service Level Agreement	7.1.1 Note 1	Penalties APSFL will provide the requisite licenses of a monitoring tool for automatic monitoring of all SLAs.	55	Please clarify that Monitoring tool in O&M phase will be provided by APSFL ? And who will be responsible for licences ?	Clause is deleted . The Bidder has to provide Trouble Ticketing and automatic SLA monitoring tool as part of OSS solution.
153	Configuration and Image Management Requirements	11.1.5	2.Configuration Archive should retain versions based on a specified duration such as 30 days, 365 days etc.	80	Contradicts with previous clause mandating the need for 30 day backup. 365 days will not be an option. Please clarify	Configuration Archive should retain versions for 1 year.
154	11.1.7	Video Wall for NMS	The Gap between 2 Display should be less than 5.5 mm	81	The Gap between 2 Display should be less than or equal to 1.0 mm as 5.5 is old technology & picture image will get broken into various parts	Agreed

155	11.1.8	11.1.8-GP Network Racks	11.8 Batteries of well-known brands to be supplied with OEM Warranty Certificate for 5 Years duration	87	Very few oems provide 5 years warranty on Battery, Clause should be amended as 3 years warranty from manufacturer and subsequent AMC for contract period	The UPS and batteries shall be supplied with 7 years warranty
156	Section 11 Annexures	11.4	Battery Battery Life Cycle	87	VRLA Battery life's run is 3 years (maximum), it means atleast two times recycling (change of new battery) will happen ? Whether APSFL will purchase these battery or if purchaser doesn't purchase batteries during O&M and bidder will provide and in that case, bidder proposes to take old battery back. Please clarify.	No change
157	11 Page 88	11.1.9	Server Rack	88	Please clarify how many 42U racks are required for DC and DR.	PIA shall provide minimum 10 Racks each at DC and DR.
158	Section 11 Annexures	3	Pre-Implementation SLAs Percentage of non-compliance to approved network changes as per process KPI Values	147	No Definition and understanding regarding KPI Value. Please clarify.	Clause is Self-Explanatory
159	11.1.7	Video Wall for NMS	Not mentioned	81-82	Video wall & Controller should be from same OEM for better interoperability & Performance	No change
160	11.1.7	Video Wall for NMS	Not mentioned	81-82	To add - The video wall screen should not fail in case of any power supply failure. It should automatically switch over without any downtime	No change
161	11.1.7	Video Wall for NMS	Not mentioned	81-82	To add - The video wall content will be able to show live on any remote display. Mobile with IE (no apps) as this is very important feature for 24x7 Operations as well as for crisis management	No change
162	11.1.7	Video Wall for NMS	The Display should have minimum (Native) contrast ratio of 1600:1.	81-82	Request you to mention Native contrast ratio of 1400:1 or above so that other OEM Can qualify	No change
163	1	3	DD/Bankers Cheque of an amount of INR 5,00,000/- (Rupees Five Lakhs only) including GST, in favour of Andhra Pradesh State FiberNet Limited drawn on any scheduled bank and payable at Vijayawada, shall have to be submitted towards cost of the tender along with the tender bid	5	Since this is electronic tender provision should be made to pay tender cost online. Please confirm.	Please Refer Corrigendum
164	Notice Inviting Tender (NIT)	3	DD/Bankers Cheque of an amount of INR 5,00,000/- (Rupees Five Lakhs only) including GST, in favour of Andhra Pradesh State FiberNet Limited drawn on any scheduled bank and payable at Vijayawada, shall have to be submitted towards cost of the tender along with the tender bid, failing which the tender bid will be rejected.	5	Cost of tender document is too high. For fair competition, request to reduce the value of tender cost. Kindly consider to Remove, since all the Bhnartnet tenders across the country do not have Tender Document Fee of Rs 5,00,000/- Over and above the lead bidder have to pay Tender process fee Rs 25000/- and EMD .	Please Refer Corrigendum
165	1	8	Vide Ref GO Ms. No.174 – I&CAD dated 1-9-2008, if any successful bidder fails to submit the original hard copies of uploaded certificates/documents, BG towards EMD within stipulated time or if any variation is noticed between the uploaded documents and the hardcopies submitted by the bidder, the successful bidder will be suspended from participating in the RFPs on e-Procurement platform for a period of 3 years. The e-Procurement system would deactivate the user ID of such defaulting bidder based on the trigger/recommendation by the RFP Inviting Authority in the system. Besides this, APSFL shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the RFP process for execution of the development schemes taken up by the government. Other conditions as per RFP document are applicable. The bidder is requested to get a confirmed acknowledgement from the RFP Inviting Authority a proof of Hardcopies submission to avoid any discrepancy.	6	As this tender, requires to be submitted online and specific clause with respect to offline document submission is mentioned under clause no. 2.9 of section 2, page no. 18. Request to please delete this clause.	No change
166	1	10	Corpus Fund: As per GO MS No.4, user departments shall collect 0.04% of ECV (estimated project cost) with a cap of Rs. 10,000 (Rupees ten thousand only) for all works with ECV up to Rs.50 Crores, and Rs. 25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 Crores, from successful bidders on e-Procurement platform before entering into agreement / issue of purchase orders, towards e-procurement fund in favor of Managing Director, APTS. There shall not be any charge towards e-Procurement fund in case of works, goods and services with ECV less than and up to Rs. 10 lakhs	6	We understand that this activity has to be done by successful bidder before entering into agreement.	yes
167	1	12 (d)	All the bidders shall invariably upload the scanned copies of DD/BG in e-Procurement system and this will be the primary requirement to consider the bid as responsive. The Department shall carry out the Technical bid evaluation solely based on the uploaded certificates/documents, BG towards EMD in the e-procurement system and open the price bids of the eligible and responsive bidders. The Department will notify the successful bidder for submission of original hard copies of all uploaded documents and DD/BG towards EMD prior to entering into agreement.	6	We understand that hard copy of uploaded bid (except document asked under clause 2.9/Offline submission) need to be submitted only if asked by purchaser during or post the evaluation of bid. Bidder need not to submit hard copy of Bid on/before the due date of bid submission. The E-Bid has to be submitted only on ap-e-procurement website. Please confirm.	yes
168	Section 1 Notice Inviting Tender (NIT)	7.b	Bank Guarantee in the format given in Section 10 of the tender document in favour of Andhra Pradesh State FiberNet Limited payable at Vijayawada from any scheduled/Nationalized bank and valid for 210 days from the date of opening of the tender.	6	Please confirm that the EMD / Bid Security for successful Bidder will be returned within 1 week of Bidder's acceptance of Advance Purchase Order / Letter of Intent and furnishing the required Performance Security.	Clause is Self-Explanatory
169	1	21	All computer-generated documents should be duly attested/ signed by the issuing organization.	7	In various cases issuing organisation may be company other than the lead bidder. Request to modify the clause as follows:- All computer-generated documents should be duly attested/ signed by the Bidder/Lead Bidder.	Clause is Self-Explanatory
170	1 notice inviting bidders	Bid security	Bank Guarantee in the format given in Section 10 of the tender document in favour of Andhra Pradesh State FiberNet Limited payable at Vijayawada from any scheduled/Nationalized bank and valid for 210 days from the date of opening of the tender.	7	in one place PBG is valid for six months i.e 180 days and in another place it is 210 days please confirm	Bank Guarantee in the format given in Section 10 of the tender document in favour of Andhra Pradesh State FiberNet Limited payable at Vijayawada from any scheduled/Nationalized bank and valid for 210 days from the date of opening of the tender.
171	2	Operations and Maintenance Phase	16) The O&M phase shall mean the phase that begins immediately after the successful completion of 90% of gram panchayats in the block.	9		Please Refer Corrigendum
172	2. Instructions to Bidder	2.1.16 Definitions: Operations and Maintenance or O&M 2.1.30 Definitions: Operations and Maintenance or O&M	2.1.16 "O&M" phase shall mean the phase that begins immediately after the successful Completion of 90% of Gram Panchayats in the block 2.1.30 "O&M" phase shall mean the phase that begins immediately after the successful Completion of the first one-tenth (10%) of the Gram Panchayats.	9	Reference to clause 2.1.16 and 2.1.30, we understand that O&M shall start on completion of 90% of Gram Panchayats in the individual block Or on completion of the first one-tenth (10%) of the total Gram Panchayats, which ever is earlier.	Please Refer Corrigendum

173	2. Instructions to Bidder	2.1.16 Definitions: Operations and Maintenance or O&M 2.1.30 Definitions: Operations and Maintenance or O&M	2.1.16 "O&M" phase shall mean the phase that begins immediately after the successful Completion of 80% of Gram Panchayats in the block 2.1.30 "O&M" phase shall mean the phase that begins immediately after the successful Completion of the first one-tenth (10%) of the Gram Panchayats.	9	Reference to clause 2.1.16 (updated as per corrigendum-2) and 2.1.30, its not clear whether O&M will start on completion of 80% of Gram Panchayats in the individual block Or on completion of the first one-tenth (10%) of the total Gram Panchayats. We recommend that what ever is earlier of above two conditions shall be considered as start date of O&M	please refer corrigendum
174	2.1 and 3.30	2.1 Definitions, 3.30 Operations & Maintenance (O&M) Phase	Point 16. "Operations and Maintenance" or "O&M" phase shall mean the phase that begins immediately after the successful Completion of 90% of Gram Panchayats in the block. Point 30. "Operations and Maintenance" or "O&M" phase shall mean the phase that begins immediately after the successful Completion of the first one-tenth (10%) of the Gram Panchayats. 3.30 Operations & Maintenance (O&M) Phase 1. The O&M will start after successful completion of AT of first 10% of GPs and from the first calendar day of the subsequent financial month from the date of completion of first 10% of GPs. Subsequent GPs' O&M will start from 1st date of next calendar month.	9	Please clarify which one of these would be the starting point for O&M	Please Refer Corrigendum
175	Section 2 Instructions to bidders	2.1	Definition 16. "Operations and Maintenance" or "O&M" phase shall mean the phase that begins immediately after the successful Completion of 90% of Gram Panchayats in the block. 30. "Operations and Maintenance" or "O&M" phase shall mean the phase that begins immediately after the successful Completion of the first one-tenth (10%) of the Gram Panchayats.	9	Ambiguity in these two clause. Clause 16 page 9 should be deleted and clause 30, page 9 should supersede it. Recommend to start O&M from 25% GP commissioning in a block. And subsequently incremental GP which are coming month on month basis in that block. Payment should be made on prodata basis from the month O&M of particular GP will start.	Please Refer Corrigendum
176	Section 2 Instructions to Bidder	18	"PMA" or "Project Management Agency" means the agency entrusted by APSFL to carry out surprise audits and certification of work carried out by PIA.	9	In order to support PMA in the Audit related activities, the Audits must be planned / periodical so that execution timelines may not be impacted. Please replace the word "surprise" with "planned / scheduled" in the referred clause.	Clause is Self-Explanatory
177	2	2.2.1(5)	Cover letter as per the format: Ref format section in RFP-9	11	No format of cover letter is given under section 9. Please provide.	clause is clear
178	2	2.2.3.1	Price Bid Schedule	12	As per the price bid schedule, we understand that following items are not part of this package and to be excluded as the same are not mentioned under price schedule: 1. Power Infra (SPV, UPS etc.) at GP Location 2. Internet or Management Bandwidth to any of NOC, GPs or Blocks Please confirm the same.	1. Power infra is part of smart rack. Please refer specifications section 11.1.8
179	2 Page 12	2.2.3.1.1 (9)	IP Phones	12	Please indicate number of IP Phones required at NOC and DR NOC. Assuming requirement for 9 seats at NOC, UP/Electrical Room, BMS room, set of 15 IP Phones should be provisioned, each set at NOC and DR NOC. Both NOC and DR NOC would be active-active. A total of 30 contact center agent licenses (15 each at NOC and DR NOC) should be provided. Please confirm.	Provide 10-seater capacity support centre, initially manned by 15 personnel (5*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the required infrastructure defined in the scope of RFP at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.
180	2 Page 12	2.2.3.1.1 (9)	IP Contact Center	12	Requirement of IP contact center at NOC and DR NOC for handling customer calls and Network Operation calls from field is missing. Please add IP contact Center requirement for NOC and DR NOC, each having 15 registered agents licenses (total 30 registered agent licenses). Each Contact Center should scale to 50 agents in future. Please also indicate specification for IP Contact Center.	Provide 10-seater capacity support centre, initially manned by 15 personnel (5*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the required infrastructure defined in the scope of RFP at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request. Server room size would be of 2000sqft. Accordingly PAC shall be provisioned in N+1 redundancy. NOC room size would be 8000sqft, accordingly CAC shall be provisioned in N+1 redundancy. CAC is to be provided for UPS/Electrical room in N+1 redundancy.
181	Main RFP Section 2 Page 12	2.2.3.1.1 (9)	IP Phone, IP Contact Centre	12	Please clarify, Furniture/Fixture, Workstation, IP Phones are to be provided for how many seats in Main NOC and DR NOC. How these IP Phones would work without IP-PBX and IP Contact Centre. Whether Bidder has to supply IP-PBX or IP Contact Centre. We recommend that NOC should be setup for minimum 15 seats to enable seating of Helpdesk Person, Network Operation persons and Business Support Persons.	Bidder have to design the Network Operation centre, and bidder have to decide number of work stations, apart from Providing 10-seater capacity support centre, initially manned by 15 personnel (5*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the required infrastructure defined in the scope of RFP at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.
182	Instructions to Bidder	2.2.3.1.4	Price Bid for O&M for 7 years	13	Calculation of NPV value of O&M not mentioned. Query - Whether O&M cost to be mentioned without calculating NPV value of O&M	Please refer Corrigendum
183	II	2.3.1 A	The sole bidder/all the consortium members shall be an Indian Registered Company under Company Act 1956 or 2013	14	We request APSFL to change this clause to: The sole bidder/lead bidder shall be an Indian Registered Company under Company Act 1956 or 2013	No Change
184	II	2.3.1 A	The sole bidder/all the consortium members shall be an Indian Registered Company under Company Act 1956 or 2013	14	We request APSFL to consider the following clause w.r.t. consortium member / OEM: # For the consortium member/OEM can be any firm who is registered and incorporated in their respective countries as per the local act # Foreign companies can be a consortium member provided they are manufacturer/OEM of the products being supplied.	No Change
185	II	2.3.1 A	The sole bidder/all the consortium members shall be an Indian Registered Company under Company Act 1956 or 2013	14	We request APSFL to change this clause to: The sole bidder/lead bidder shall be an Indian Registered Company under Company Act 1956 or 2013	No Change
186	II	2.3.1 A	The sole bidder/all the consortium members shall be an Indian Registered Company under Company Act 1956 or 2013	14	We request APSFL to consider the following clause w.r.t. consortium member / OEM: # For the consortium member/OEM can be any firm who is registered and incorporated in their respective countries as per the local act # Foreign companies can be a consortium member provided they are manufacturer/OEM of the products being supplied.	No Change

187	2	2.3.1	If the bidder doesn't form a consortium with an MSME, the bidder should earmark a minimum of 10% of the total contract for procuring goods and services from MSMEs registered in state of Andhra Pradesh.	15	We request you to delete the clause as the consortium may not be required to be made with MSMEs in all the case. In case if consortium is mandatory to be made, request to provide list of approved MSMEs from which bidder can select for particular scope.	Please Refer Corrigendum
188	2	2.3.1 (E- Project Experience)	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP.....	15	Since keeping in view nature of the project many of the IP/MPLS vendors may not be willing to participate as Lead, we request you to amend this clause as "The Lead bidder or its consortium partner should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP....."	Please refer corrigendum
189	2	2.3.1.E	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	15	As the same criteris has been asked under OEM eligibility, We request to please allow that bidder can meet this criteria if the OEM proposed by the bidder meets the same and bidder has to submit MAF from the OEM meeting this eligibility criteria in order to qualify this.	Please refer corrigendum
190	2.3.1	Qualification Criteria for System Integrators	Bidder should submit MAF (Manufacturer Authorization Form) with the product OEMs for electronics & electrical equipment. The Bidder / Consortium can quote products from only one OEM for each of the equipment categories. In case of Bidders offering multiple OEM options, such bids will be rejected.OEM shall ensure that all equipment / components / subcomponents being supplied by them shall be supported for the entire contract period of 7 years. If the same is desupported by the OEM for any reason whatsoever, the bidder shall replace it with an equivalent or better substitute that is acceptable to Purchaser without any additional cost to the Purchaser and without impacting the performance of the solution in any manner whatsoever	15	We request you to allow multiple OEM for each equipment category. This allows choices to System Integrator and it will result in competition and better Prices.System Integrator quoting multiple option will certify interoperability between OEM's.We request for your confirmation.	No change
191	2.3.2	B. Financial Eligibility Name of the upload: Q2	Minimum Cumulative turnover of the bidder / consortium from last 3 FYs from activities relating to IT Systems Integration services / IT services / Network services / Telecom services / NMS / OSS/ BSS services in India or abroad should be Rs. 450 Cr.	15	We understand that Telecom Services mean Telecom Product Supplies & Services.Pls confirm.Also,Minimum turnover of bidder should be more than 1500Cr for the last 3 years for a project of this size as per CVC guidelines.Pls confirm.Also,Cummulative Turnover requirement should be for teh bidder and not for Consortium.Pls confirm.	Please Refer Corrigendum
192	2.3.3	B. Financial Eligibility Name of the upload: Q2	Net worth of the bidder/consortium as on last 31st March 2017 should be a minimum of Rs. 75 Cr.	15	Networth should be in line with total project cost and Risk/exposure to SI's. It should also be in line with Turnover of the Lead bidder/consortium. We request you to increase it to 450 Cr.	No change
193	II	2.3.1 B	Net worth of the bidder/consortium as on last 31st March 2017 should be a minimum of Rs. 75 Cr.	15	We request APSFL to change this clause to: Net worth of the sole bidder/lead bidder as on last 31st March 2017 should be a minimum of Rs. 75 Cr.	No Change
194	II	2.3.1 B	Net worth of the bidder/consortium as on last 31st March 2017 should be a minimum of Rs. 75 Cr.	15	We request APSFL to change this clause to: Net worth of the sole bidder/lead bidder as on last 31st March 2017 should be a minimum of Rs. 75 Cr.	No Change
195	Section 2- Instructions to Bidder	Project Experience	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	15	Kindly modify the clause as: Any member of Consortium should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	Please Refer Corrigendum
196		B: Financial Eligibility	Minimum cumulative turnover of the bidder/ consortium from the last 3 FYs from activities relating to IT System integration services/ IT Services/ Network services/ Telecom Services / NMS/ OSS/BSS services in India or abroad should be 450 cr	15	Minimum cumulative turnover of the bidder/ consortium from the last 3 FYs from activities relating to IT System integration services/ IT Services/ Network services/ Telecom Services / NMS/ OSS/BSS services in India or abroad should be 450 cr *The bidder or consortium can use the turnover, net worth and experience of its parent company or vice versa.*	Please Refer Corrigendum
197			Net worth of the bidder/consortium as on 31st March 2017 should be a minimum of Rs 75 Cr	15	Net worth of the bidder/consortium as on 31st March 2017 should be a minimum of Rs 75 Cr *The bidder can use the turnover, net worth and experience of its parent company or vice versa	The requirement has been framed keeping in view the general tendering best practices and to allow the tendering / bidding firms a minimum vintage of existence and experience, of being engaged in executing similar business / projects in India. Diluting this clause, at a minimum, can imply impropriety in the tendering process and at the maximum also risk the project execution.
198			The lead Bidder should have an installation base of at least 200 IP MPLS edge /aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these , a minimum of 100 I-MPLS edge/aggregation/ core routers should be deployed in India in one single network, preferably in Government/Telco network.	15	The lead Bidder should have an installation base of at least 200 IP MPLS edge /aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 I-MPLS edge/aggregation/ core routers should be deployed in India in one single network, preferably in Government/Telco network. *The project experience of the parent company of the consortium member shall be considered.*	No change
199			Extracts from other BBNL tenders in the country	15	In case of bids where for the fulfillment of eligibility requirements, turnover and experience of the parent company is being submitted then the bidder shall submit a declaration from authorized signatory of the parent company that they (The parent company) shall support and take responsibility to enable its subsidiary company (The bidder) to perform the contractual obligation. The parent company or Principals of the consortium member	No change
200	2	2.3.1	Bidder has to submit manpower plan along with the bids with minimum 20 OEM certified network experts (i.e., CCIE, CCNP or equivalent)	16	We request to kindly change this clause as "Bidder has to submit a manpower plan along with bids with minimum 10 Network experts"	No change

201	2	2.3.2	Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	16	<p>Since as System Integrator, We are responsible to meet the technical specification and SLA levels for the entire technical Solution, we request you not to insist for single make /model in the contract. Alternatively, you may kindly approve at least three makes and models for each of the equipment to be provided for this project.</p> <p>This will help the SI to offer a very competitive price to the customer by taking aggressive risks on their costs, which will totally benefit the customer. If only one make is insisted the vendor does not support the SI in times and therefore the cost go up considerably.</p> <p>For your Kind information, in almost all of the government contracts there is a list of Compendium of Suppliers approved for each of the item required for the Project. This list is made part of the contract.</p> <p>During execution of the contract, the SI/Contractor shall have to supply materials of makes/OEMs who are mentioned in that list only. This is followed in GoMPRD/ PGCIL/ NTPC/ NPCIL/ DoIT-GoMP/ MPTD. None of the government project where vigilance/RTI is applicable have single make to be provided during bid submission</p> <p>Hence we request you to kindly accept the same.</p>	No change
202	2 Page 16	2.3.2	<p>Commercial eligibility</p> <ol style="list-style-type: none"> OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018. OEM (Parent company) & its Indian registered Subsidiary individually should have turnover for 2000 Crores Rupees or equivalent foreign currency on average in last 3 years. OEM through its Indian Subsidiary should have presence in Indian for last 10 years. OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. OEM through its Indian Subsidiary must have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. OEM should be an established industry player in its 	16	We understand the criteria laid down in 2.3.2 - commercial eligibility is applicable for OEM related to IP/MPLS. Kindly Confirm.	Sub clauses under 2.3.2 for Qualification Criteria for Original Equipment Manufacturers and Commercial eligibility is only for IP/MPLS routers in Master Block, Block and GP.
203	2 Page 16	2.3.2	OEM should have deployed similar solutions in at least five Service Providers in India/Globally	16	Service Providers correspond to any of Service Providers (Internet/Telecom) in India/Globally. OEM can provide self certification with brief information on project, Phone and email contact of Project customer. Please confirm.	Yes
204	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt 1	OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018.	16	We understand For FY 2017-2018 we can submit an undertaking however for Parent company (Foreign Entity) FY17 is from Jan-Dec. So, the last 3 years applicable here shall be 2015,16 & 2017& in case of financial statements under audit, we submit the self undertaking for same. Please Confirm	Audited Financial statements for the latest three financial years shall be submitted
205	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt 1	OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018.	16	We understand For FY 2017-2018 we can submit an undertaking however for Parent company (Foreign Entity) FY17 is from Jan-Dec. So, the last 3 years applicable here shall be 2015,16 & 2017& in case of financial statements under audit, we submit the self undertaking for same. Please Confirm	Audited Financial statements for the latest three financial years shall be submitted
206	2.3 Selection Process of Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers Pt. 1	Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	16	We understand One Bidder / Consortium can bid with a single OEM however one OEM can bid with multiple bidders. Please confirm	Yes
207	2.3 Selection Process of Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers Pt. 1	Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	16	We understand One Bidder / Consortium can bid with a single OEM however one OEM can bid with multiple bidders. Please confirm	yes
208	2.3.1 Qualification Criteria for System Integrators	F. Key Personnel Name of the upload: Q5	Bidder has to submit manpower plan along with the bids with minimum 20 OEM certified network experts (i.e., CCIE, CCNP or equivalent)	16	Not Every SI may have the certification for 20 personals at the bidding stage. We request to amend this clause that SI to give undertaking for the same on the solution/technology /OEM offered before implementation starts. Further we suggest associate level certificates should also be considered. I.e. CCNA or equivalent OEM certifications like HCNA	Can be considered for undertaking but only professional and expert certifications and not associate level.
209	2.3.1 Qualification Criteria for System Integrators	F. Key Personnel Name of the upload: Q5	Bidder has to submit manpower plan along with the bids with minimum 20 OEM certified network experts (i.e., CCIE, CCNP or equivalent)	16	Not Every SI may have the certification for 20 personals at the bidding stage. We request to amend this clause that SI to give undertaking for the same on the solution/technology /OEM offered before implementation starts. Further we suggest associate level certificates should also be considered. I.e. CCNA or equivalent OEM certifications like HCNA	Can be considered for undertaking but only professional and expert certifications and not associate level.
210	2.3.2	Commercial eligibility	OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018.	16	This clause is very restrictive and we would request you to relax it for domestic manufactures as per PMA Guidelines.	No change
211	2.3.2	Commercial eligibility	OEM (Parent company) & its Indian registered Subsidiary individually should have turnover for 2000 Crores Rupees or equivalent foreign currency on average in last 3 years.	16	This clause is against the spirit of fair eligibility norms. As per CVC and GFR guidelines, average turnover of a bidder should be 30% of the tentative budget of the tender. Surprisingly, the bidders turnover, as asked in the tender eligibility, is lower than the OEM's turnover requirement. It is requested to bring the turnover requirement of the OEM lower than the bidder's turnover requirement and in line with CVC & GFR guidelines.	No change

212	2.3.2	Qualification Criteria for Original Equipment Manufacturers	Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	16	We do understand that MPLS Nodes are required at GP,Block and Master Block.We strongly recommend that the MPLS Nodes required at GP & Block in Pre-Aggregation and Aggregation layer should be from same OEM while at Master Aggregation layer can be from other OEM.All the global networks are evolved like that only.In the present case,It is a restrictive condition which will favour only a few foreign OEMs .In view of the same,pls confirm that Aggregation and pre aggregation layer MPLS nodes should be from same OEM and Master Aggregation layer can be from different OEM.We request for your confirmaton.	No change
213	2.3.2	Qualification Criteria for Original Equipment Manufacturers	OEM should have deployed similar solutions in at least five Service Providers in India / Globally.	16	We understand that the OEM should have deployed MPLS products.Please confirm our understanding.	No change
214	2.3.2	Qualification Criteria for Original Equipment Manufacturers	The OEM should have an aggregate installed base of at least 200 IP/MPLS edge / aggregation / core routers which should be working satisfactorily for over one year. Of these, a minimum of 100 IP-MPLS edge / aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	16	We understand that the OEM should have deployed MPLS products.Please confirm our understanding.	No change
215	2.3.2	Qualification Criteria for Original Equipment Manufacturers	The aggregate installed base of Access routers deployed in India/Globally by the OEM should be at least 4,000, which should be working satisfactorily for over two years.	16	We understand that the OEM should have deployed MPLS products.Please confirm our understanding.	No change
216	2.3.2	Qualification Criteria for Original Equipment Manufacturers	Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	16	We do understand that MPLS Nodes are required at GP,Block and Master Block.We strongly recommend that the MPLS Nodes required at GP & Block in Pre-Aggregation and Aggregation layer should be from same OEM while at Master Aggregation layer can be from other OEM.All the global networks are evolved like that only.In the present case,It is a restrictive condition which will favour only a few foreign OEMs .In view of the same,pls confirm that Aggregation and pre aggregation layer MPLS nodes should be from same OEM and Master Aggregation layer can be from different OEM.We request for your confirmaton.	No change
217	2.3.2	Qualification Criteria for Original Equipment Manufacturers	The OEM should have an aggregate installed base of at least 200 IP/MPLS edge / aggregation/ core routers which should be working satisfactorily for over one year. Of these, a minimum of 100 IP-MPLS edge / aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	16	We understand that the OEM should have deployed MPLS products.Please confirm our understanding.	No change
218	2.3.2 Qualification Criteria for Original Equipment Manufacturers	Commercial eligibility	4. OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	16	Please clarify if OEM have Training Lab for Hands on Practice in other state of India. Suggestion is that this should also be accepted.	No change
219	2.3.2 Qualification Criteria for Original Equipment Manufacturers	Commercial eligibility	5. OEM through its Indian Subsidiary must have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	16	Please clarify if OEM have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre in other state of India. Suggestion is that this should also be accepted.	No change
220	2.3.2 Qualification Criteria for Original Equipment Manufacturers	Commercial eligibility	4. OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	16	Please clarify if OEM have Training Lab for Hands on Practice in other state of India. Suggestion is that this should also be accepted.	No change
221	2.3.2 Qualification Criteria for Original Equipment Manufacturers	Commercial eligibility	5. OEM through its Indian Subsidiary must have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	16	Please clarify if OEM have 24x7 hotline & toll-free help desk for service support in India with their own technical support centre in other state of India. Suggestion is that this should also be accepted.	No change
222	II	2.3.2	OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & Its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018.	16	We understand that this clause is applicable when Indian subsidiary company is bidding & its parent company is the OEM and not applicable in case OEM is not the parent company of the Indian / bidding company. Please confirm # If the OEM is a Foreign company then Positive Net Worth Should be qualification criteria Ref: All BBNL/BSNL/PGCIL Tenders	Clause is self explanatory
223	II	2.3.2	OEM (General)	16	And also clarity is required for the following points: (a) OEM can be any foreign company? (b) If OEM can be any foreign company then does OEM has to satisfy the profit & net worth condition?	Clause is self explanatory
224	II	2.3.2	OEM (Parent company) & its Indian registered Subsidiary Should have made profit for Last 3 years individually as per the audited balance sheet, however for financial year 2017-18 self-undertaking can be submitted by OEM (Parent company) & Its Indian Subsidiary, if the audited results not published and provisional certificate by CA be submitted by June 2018.	16	We understand that this clause is applicable when Indian subsidiary company is bidding & its parent company is the OEM and not applicable in case OEM is not the parent company of the Indian / bidding company. Please confirm # If the OEM is a Foreign company then Positive Net Worth Should be qualification criteria Ref: All BBNL/BSNL/PGCIL Tenders	Clause is self explanatory
225	II	2.3.2	OEM (General)	16	And also clarity is required for the following points: (a) OEM can be any foreign company? (b) If OEM can be any foreign company then does OEM has to satisfy the profit & net worth condition?	Clause is self explanatory
226	Section 2- Instructions to Bidder	2.3.1 Pre-Qualification Criteria for System Integrators	4. Bidder should submit MAF (Manufacturer Authorization Form) with the product OEMs for electronics & electrical equipment . The Bidder/Consortium can quote products from only one OEM foe each of the equipment caegories . Documents to be submitted: 1. Authorization Letter from OEMs 2. Teaming agreement with the product OEMs	16	We understand Bidder's need not to submit separate Teaming Agreement as the MAF format provided in the RFP suffice the requirement as it confirms the support from OEM. Please allow bidders to submit teaming agreement agreement copy with OEMs during project execution. Please confirm. Still if bidder's need to submit separate Teaming Agreement apart from MAF, kindly share the format of Teaming agreements.	Clause is Self-Explanatory
227	Section 2- Instructions to Bidder	2.3.1 Pre-Qualification Criteria for System Integrators	4. Bidder should submit MAF (Manufacturer Authorization Form) with the product OEMs for electronics & electrical equipment . The Bidder/Consortium can quote products from only one OEM foe each of the equipment caegories . Documents to be submitted: 1. Authorization Letter from OEMs 2. Teaming agreement with the product OEMs	16	We understand Bidder's need not to submit separate Teaming Agreement as the MAF format provided in the RFP suffice the requirement as it confirms the support from OEM. Please allow bidders to submit teaming agreement agreement copy with OEMs during project execution. Please confirm. Still if bidder's need to submit separate Teaming Agreement apart from MAF, kindly share the format of Teaming agreements.	The bidder shall provide MAF from OEM clearly mentioning OEM support for supply, warranty, installation & commissioning and support for period of seven years in O&M phase.

228	Section 2- Instructions to Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers	2. OEM should have deployed similar solutions in at least five Service Providers in India/Globally. 3. The OEM should have an aggregate installed base of at least 200 IP/MPLS edge / aggregation/ core routers which should be working satisfactorily for over one year. Of these, a minimum of 100 IP-MPLS edge / aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network. 4. The aggregate installed base of Access routers deployed in India/Globally by the OEM should be at least 4,000, which should be working satisfactorily for over two years	16	Many (private and public) service provide customers (India/Global) & OEM have NDA clause and sharing PO/Contract copy is not possible. The 3 sub points asked in this clause are for assurance of OEMs capability wrt their install base of the IP-MPLS solution. Hence, kindly modify the clause as "Copy of PO/Contract/Agreement/OEM Self certificate with sign & stamp of India or Global Head/Authorized Signatory confirming the install base. Many Govt RFPs in recent past have asked for OEM self certification with in a similar way.	Accepted
229	Section 2- Instructions to Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers	2. OEM should have deployed similar solutions in at least five Service Providers in India/Globally. 3. The OEM should have an aggregate installed base of at least 200 IP/MPLS edge / aggregation/ core routers which should be working satisfactorily for over one year. Of these, a minimum of 100 IP-MPLS edge / aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network. 4. The aggregate installed base of Access routers deployed in India/Globally by the OEM should be at least 4,000, which should be working satisfactorily for over two years	16	Many (private and public) service provide customers (India/Global) & OEM have NDA clause and sharing PO/Contract copy is not possible. The 3 sub points asked in this clause are for assurance of OEMs capability wrt their install base of the IP-MPLS solution. Hence, kindly modify the clause as "Copy of PO/Contract/Agreement/OEM Self certificate with sign & stamp of India or Global Head/Authorized Signatory confirming the install base. Many Govt RFPs in recent past have asked for OEM self certification with in a similar way.	Sub clauses under 2.3.2 for Qualification Criteria for Original Equipment Manufacturers and Commercial eligibility is only for IP/MPLS routers in Master Block, Block and GP.
230	Section 2- Instructions to Bidder	2.3.2-Commercial eligibility	OEM through its Indian Subsidiary should have presence in Indian for last 10 years.	16	We understand this clause is applicable for IP/MPLS OEM only. Please confirm.	Clause is clear
231	Section 2- Instructions to Bidder	2.3.2-Commercial eligibility	OEM through its Indian Subsidiary should have presence in Indian for last 10 years.	16	We understand this clause is applicable for IP/MPLS OEM only. Please confirm.	Clause is clear
232	Section 2- Instructions to Bidder	Clause F	Bidder has to submit manpower plan along with the bids with minimum 20 OEM certified network experts (i.e., CCIE, CCNP or equivalent)	16	We understand these resumes need to be submitted by Lead Bidder in its bid of its offered IP/MPLS OEM. The employees should be in the payroll of OEM.	The 20 OEM certified Network experts can be on payroll of bidder/OEM
233	Section 2- Instructions to Bidder	Clause F	Bidder has to submit manpower plan along with the bids with minimum 20 OEM certified network experts (i.e., CCIE, CCNP or equivalent)	16	We understand these resumes need to be submitted by Lead Bidder in its bid of its offered IP/MPLS OEM. The employees should be in the payroll of OEM.	Yes
234	Section 2- Instructions to Bidder	F. Key Personnel :Q 5	Bidder has to submit manpower plan along with the bids with minimum 20 OEM Certified network experts (i.e. CCIE, CCNP or equivalent)	16	We request to modify the clause as : Bidder has to submit manpower plan along with the bids with minimum 10 OEM Certified network experts (i.e. CCIE, CCNP or equivalent)	Clause is Self-Explanatory
235	Section 2- Instructions to Bidder	F. Key Personnel :Q 5 Project Director	<ul style="list-style-type: none"> ☑ Should be MBA/PGDBM and B.Tech/MCA from premier institute. ☑ Should have at least 15 years of experience with at least 10 years of experience in large scale IP MPLS /telecom Deployment projects in India. ☑ Should have experience of leading the team for implementation projects of large nature in India. 	16	<ul style="list-style-type: none"> Request you to modify the clause as ☑ Should be MBA/PGDBM/PGDM and B.Tech/MCA/Any Graduate from premier institute. ☑ Should have at least 15 years of experience with at least 10 years of experience in large scale OFC Deployment projects in India. ☑ Should have experience of leading the team for implementation projects of large nature in India. 	<ul style="list-style-type: none"> ☑ Should be MBA/PGDBM and B.Tech/MCA/Any Graduate from premier institute. ☑ Should have at least 15 years of experience with at least 10 years of experience in large scale IP MPLS /telecom Deployment projects in India. ☑ Should have experience of leading the team for implementation projects of large nature in India.
236	Section 2- Instructions to Bidder	F. Key Personnel :Q 5 Project Director	<ul style="list-style-type: none"> § Should be MBA/PGDBM and B.Tech/MCA from premier institute. § Should have at least 15 years of experience with at least 10 years of experience in large scale IP MPLS /telecom Deployment projects in India. § Should have experience of leading the team for implementation projects of large nature in India. 	16	<ul style="list-style-type: none"> Request you to modify the clause as § Should be MBA/PGDBM/PGDM and B.Tech/MCA/Any Graduate from premier institute. § Should have at least 15 years of experience with at least 10 years of experience in IP MPLS /telecom Deployment projects in India. § Should have experience of leading the team for implementation projects of large nature in India. 	<ul style="list-style-type: none"> ☑ Should be MBA/PGDBM and B.Tech/MCA/Any Graduate from premier institute. ☑ Should have at least 15 years of experience with at least 10 years of experience in large scale IP MPLS /telecom Deployment projects in India. ☑ Should have experience of leading the team for implementation projects of large nature in India.
237	2	2.3.2.4	Project Go LIVE	17	Request please confirm list of activities to be completed before the project is considered as Go-Live .	Clause is Self-Explanatory
238	2 Page 17	2.3.2	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live	17	We understand that this clause is only applicable to IP/MPLS equipment OEM. Please confirm.	Sub clauses under 2.3.2 for Qualification Criteria for Original Equipment Manufacturers and Commercial eligibility is only for IP/MPLS routers in Master Block, Block and GP.
239	2 Page 17	2.3.2	5. OEM through its Indian Subsidiary must have 24x7 hotline & toll-Free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	We understand that this clause is only applicable to IP/MPLS equipment OEM. Please confirm.	Sub clauses under 2.3.2 for Qualification Criteria for Original Equipment Manufacturers and Commercial eligibility is only for IP/MPLS routers in Master Block, Block and GP.
240	2. Instructions to Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers	5. OEM through its Indian Subsidiary must have 24x7 hotline & toll-Free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	PIA agency will provide O&M for entire Project , PIA agency should be responsible to setup Technical Support Centre with requirement as mentioned	No change
241	2. Instructions to Bidder	2.3.2 Qualification Criteria for Original Equipment Manufacturers	5. OEM through its Indian Subsidiary must have 24x7 hotline & toll-Free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	PIA agency will provide O&M for entire Project , PIA agency should be responsible to setup Technical Support Centre with requirement as mentioned	No change
242	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt.4	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	In the age of digitization the trainings are delivered through e learning or web portals including eLABs to people at remote locations within country or even outside country . Our training Centre is in Gurgaon which caters to more than 5000 customers training & certification requirements . Hence It is suggested to exempt the line-Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh	No change
243	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt.4	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	In the age of digitization the trainings are delivered through e learning or web portals including eLABs to people at remote locations within country or even outside country . Our training Centre is in Gurgaon which caters to more than 5000 customers training & certification requirements . Hence It is suggested to exempt the line-Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh. We recommend number of Tier 1 Partners to 1	No Change
244	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt.5	OEM through its Indian Subsidiary must have 24x7 hotline & toll-Free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	We have 24x7 hotline & toll-Free help desk for service support in India to multiple customers & are adequately staffed to meet the required SLA . We propose that local support including office & Spare Part warehouse shall be available in AP & request to remove the requirement of 100 Seats	No change

245	2.3 Selection Process of Bidder	2.3.2 Commercial eligibility Pt.5	OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	We have 24X7 hotline & toll-free help desk for service support in India to multiple customers & are adequately staffed to meet the required SLA. We propose that local support including office & Spare Part warehouse shall be available in AP & request to remove the requirement of 100 Seats	No change
246	2.3.2	Commercial eligibility	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	This clause is very restrictive and we would request you to relax it for domestic manufactureres as per PMA Guidelines.	No change
247	2.3.2	Commercial eligibility	OEM should be an established industry player in its respective domain like Networking, and IT (Server & storage) etc. and should be in Top Five position globally as per third party reports likes of Gartner's / Forester / IDC / OVUM / INFONETICS for each respective domain.	17	This clause is very restrictive condition and against the CVC,GFR and latest DIPP notification. Moreover, these 3rd party research organizations have a disclaimer at the end of their report. eg Gartner's reports have the following disclaimer in all its reports which is mentioned below: Gartner, Inc. "Magic Quadrant for Network Services, Global" by Neil Rickard, Bjarne Munch, January 14th 2016 "Gartner doesn't endorse any vendor product or service depicted in its research publications and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose." In view of the same, you are requested to delete this requirement which is ONLY FAVOURING FOREIGN OEMs and where none of the domestic players can compete.	No change
248	Commercial eligibility/2.3.2	5	OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	OEM has TAC (technical assistant center) for troubleshooting critical problems for across the customers globally, highly skilled resources are being deployed to resolve critical issues for multiple customer. Deploying so many critical resources for one project and in a particular location will increase the cost of the project and going to be extremely difficult. We therefore request you to please remove "with a minimum of "100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live" for a larger participation.	No change
249	RFP Document: Commercial eligibility/2.3.2	5	OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live.	17	OEM has TAC (technical assistant center) for troubleshooting critical problems for across the customers globally, highly skilled resources are being deployed to resolve critical issues for multiple customer. Deploying so many critical resources for one project and in a particular location will increase the cost of the project and make it unviable. We therefore request you to please remove the clause.	No change
250	Section 2	2.3.2-Commercial eligibility	OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live	17	Please clarify the Hardware/ software for which the commercial eligibility caluses from s.no 1 to 6 are applicable. Support center to be based out of Inida instead of Andhra Pradesh as mentioned in the RFP	No change
251	Section 2	2.3.3-Commercial Evaluation	Bidders quoting unrealistic cost of items shall be rejected straightaway by the committee and EMD of such bidder shall be forfeited. Any bid found to have unsatisfactory response in any of the eligibility criteria as mentioned may be rejected and shall not be considered for further evaluation.	17	Request you to please share the understanding for unrealistic cost	No change
252	Section 2- Instructions to Bidder	2.3.2-Commercial eligibility	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. 5. OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. 6. OEM should be an established industry player in its respective domain like Networking, and IT (Server & storage) etc. and should be in Top Five position globally as per third party reports likes of Gartner's / Forester / IDC / OVUM / INFONETICS for each respective domain.	17	We understand this clause is applicable for IP/MPLS OEM only. Please confirm.	Yes
253	Section 2- Instructions to Bidder	2.3.2-Commercial eligibility	OEM through its Indian registered Subsidiary have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities. Indian Subsidiary or Its training partner should have Training Lab for Hands on Practice in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. 5. OEM through its Indian Subsidiary must have 24X7 hotline & toll-free help desk for service support in India with their own technical support centre with a minimum of 100 seats based in Andhra Pradesh (or) OEM has to give an undertaking to setup the same before the project go live. 6. OEM should be an established industry player in its respective domain like Networking, and IT (Server & storage) etc. and should be in Top Five position globally as per third party reports likes of Gartner's / Forester / IDC / OVUM / INFONETICS for each respective domain.	17	We understand this clause is applicable for IP/MPLS OEM only. Please confirm.	yes
254	Section 2- Instructions to Bidder	Information and instruction to Bidders for e-Tendering	The Bidder shall submit their response through Bid submission process on e-Procurement platform at "www.approcurement.gov.in"	17	As Bidders need to submit entire technical bid online only which comprises on All eligibility documents, Purchase orders, Completion certificates, compliances, Datasheets, Brochures etc., kindly confirm that there is no space limit in the e-procurement portal and we can submit all the documents with ease. Also unlimited number of files should be allowed to upload in the portal so that we can prepare and submit a quality bid.	Clause is Self-Explanatory

255	Section 2- Instructions to Bidder	Information and instruction to Bidders for e-Tendering	The Bidder shall submit their response through Bid submission process on e-Procurement platform at "www.apereprocurement.gov.in"	17	Currently the onlone e-procurement portal allows only 40 MB space to upload technical bid which is not suffice. As Bidders need to submit entire technical bid online only which comprises on All eligibility documents, Purchase orders,Completion certificates, Annual Reports, compliances, Datasheets Brochures etc, kindly allow bidders atleast 300 MB space in the e-procurement portal and we can submit all the documents with ease. Also unlimited number of files should be allowed to upload in the portal so that we can prepare and submit a quality bid.	No change
256	2	2.13	EMD	19	Please provide bank details & ISFC code for APSFL bank to help us get the Bank Guarantee accordingly.	Please refer the corrigendum
257	2.13	Bid Security/EMD	2.13 (4) The bid security of the unsuccessful Bidder will be discharged/ returned as promptly as possible, but not later than 30 days after the expiry of the period of the bid validity prescribed by the APSFL pursuant to clause mentioned in section "Period of Validity of Bids	19	successful Bidder shall be returned with Bid Security/EMD within 1 week of Bidder's acceptance of Advance Purchase Order / Letter of Intent and furnishing the required Performance Security. Un succedsful bidder shall be returned with Bid Security/EMD immediately	No change
258	2 Page 19	2.11	3. PIA shall purchase comprehensive warranty of equipment for 5 years and 2 years of AMC.	19	At many places, tender refer to 7 year warranty, please clarify whether bidder has to quote 7 year warranty or, 5 year warranty.	Please Refer Corrigendum
259	Section 2 Instructions to Bidder	2.13.4	The bid security of the unsuccessful Bidder will be discharged/ returned as promptly as possible, but not later than 30 days after the expiry of the period of the bid validity prescribed by the APSFL pursuant to clause mentioned in section "Period of Validity of Bids".	19	Please confirm that Bid Security of unsuccessful Bidder will be released not later than 30 days after expiry of the Bid validity period or not later than 15 days after the issuance of Advance Purchase Order to selected Bidder, whichever is earlier.	Clause is Self-Explanatory
260	Section 2 Instructions to Bidder	2.13.5	The successful Bidder's bid security will be discharged upon the Bidder's acceptance of the Advance Purchase Order or Letter of Intent satisfactorily in accordance with below clause below and furnishing the performance security.	19	Please confirm that the EMD / Bid Security for successful Bidder will be returned within 1 week of Bidder's acceptance of Advance Purchase Order / Letter of Intent and furnishing the required Performance Security.	Clause is Self-Explanatory
261	Section 2- Instructions to Bidder	2.13 Bid Security/EMD	Earnest Money Deposit (EMD)	19	As we are submitting the EMD in the form of BG, our banker requires the following details from the Beneficiary bank 1) Name of Beneficiary: 2) Name of Bank : 3) Bank address : 4) Bank Account No : 5) IFSC CODE : 5) MICR CODE : 6) BRANCH CODE : As per the RBI guidelines we require the above details for issuing the Bank Guarantee. Request you to get the following details.	Please refer the corrigendum
262	Section 2 Instructions to Bidder	2.19.4	The date fixed for opening of bids, if subsequently declared as holiday by the APSFL, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working day, time and venue remaining unaltered.	21	Please confirm that Bid Security and Bid Validity period will not be changed due to such event occurrence and the same shall not become a measure of disqualification of Bid.	Clause is Self-Explanatory
263	2	2.24	The Selected Bidder shall, within 14 days of issue of the APO / AWO, submit unconditional & unequivocal acceptance of APO / AWO along with Performance Security in conformity to NIT.	22	We request you to kindly amend this clause as "The Selected Bidder shall, within 45 days of issue of the APO / AWO, submit unconditional & unequivocal acceptance of APO / AWO along with Performance Security in conformity to NIT."	No change
264	Section 2 Instructions to Bidder	2.22	Placement of Purchase Order or Work Order The APSFL shall consider placement of purchase order only on those eligible bidders whose offers have been found technically and financially acceptable. The APSFL reserves the right to counter offer price(s) against price(s) quoted by any Bidder.	22	Please confirm that during APSFL's counter offer price(s) against price(s) quoted by Bidder, non acceptance of APSFL's counter offer price by selected Bidder will not lead to forfeiture of its Bid Security.	Clause is Self-Explanatory
265	Section 2 Instructions to Bidder	2.25.1	Signing of Contract The signing of contract or issue of Purchase Order or Work Order shall constitute the award of contract to the Bidder. The contract with the successful Bidder shall be signed by APSFL after acceptance of APO by the successful Bidder and the Bidder has submitted the performance security in conformity with pro forma enclosed in the bid document.	22	Please confirm that the Purchase Order shall be issued with Contract signing within 4 weeks of Bidder's acceptance of Advance Purchase Order / Letter of Intent and furnishing the required Performance Security.	Clause is Self-Explanatory
266	Section 2 Instructions to Bidder	2.25.2	Signing of Contract Upon the successful Bidder furnishing performance security, the APSFL shall discharge the bid security.	22	Please confirm that the EMD / Bid Security for successful Bidder will be returned within 1 week of Bidder's acceptance of Advance Purchase Order / Letter of Intent and furnishing the required Performance Security.	Clause is Self-Explanatory
267	Section 2 Instructions to Bidder	2.25.2	The Selected Bidder shall, within 14 days of issue of the APO / AWO, submit unconditional & unequivocal acceptance of APO / AWO along with Performance Security in conformity to NIT.	22	Please confirm whether performance security is to be deposited within 14 days or 15 days of issuance of APO.	14 days
268	2.26	Performance security	PIA shall furnish Performance Security to the APSFL at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee Bond from a Nationalized/Scheduled Bank in the Performa given Section within 15 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period	23	No definitive period mentioned for contract completion	Clause is clear
269	2. Instructions to Bidder	2.26 Performance Security	Performance Security equal to 10% of the value of the Contract..... within 15 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period.	23	We request you to rationalize the PBG values in line with the other PSUs as per the following schedule: Supply & Installation of Equipment: 5% of the PO value with the validity till 'Project Completion' as defined in the RFP O&M PBG: 5% of the O&M PO value to be submitted at the time of start of warranty with the validity in line with The O&M PO tenure.	No change
270	2. Instructions to Bidder	2.26 Performance Security	Performance Security equal to 10% of the value of the Contract..... within 15 days after issuance of letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period.	23	We request you to rationalize the PBG values in line with the other PSUs as per the following schedule: Supply & Installation of Equipment: 5% of the PO value with the validity till 'Project Completion' as defined in the RFP O&M PBG: 5% of the O&M PO value to be submitted at the time of start of warranty with the validity in line with The O&M PO tenure.	No change

271	Section 2 Instructions to Bidder	2.26	PIA shall furnish Performance Security to the APSFL at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee Bond from a Nationalized/Scheduled Bank in the Performa given Section within 15 days after issuance of Letter of intent (LOI) or Letter of Award (LoA) which would be valid up to a period of six months after the contract completion period.	23	Please confirm whether performance security is to be deposited within 14 days or 15 days of issuance of APO.	14 days
272	Section 2 Instructions to Bidder	2.27	Annulment of Award Failure of the successful Bidder to comply with the requirement of section "Signing of Contract" above shall constitute sufficient ground for the annulment of the APO and the forfeiture of the bid security in which event the APSFL may call for fresh bids.	23	In case the successful Bidder (L1) fails to sign the contract, the opportunity of issuance of APO and subsequent signing of Contract may be passed on to next successful Bidder (L2), provided L2 bidder matches the price of L1 bidder of the referred package.	Yes
273	ITB	2.22	The APSFL reserves the right to counter offer price(s) against price(s) quoted by any Bidder.	24	This shall be only during tender process and not after award of Contract. Pls confirm	Yes
274	3.1	3.General Conditions of Contract 3.1 Interpretation	Order of precedence: The documents forming the contract shall be interpreted in the following order of priority: (1) Agreement; (2) Letter of Acceptance/ notice to proceed; (3) Bill of quantities; (4) technical bid; (5) conditions of contract; (6) specifications; (7) any other document listed as forming part of contract.	25	We understand that the "Conditions to contract" mentioned at point no 5, will itself form part of the "Agreement" mentioned in point no. 1; and hence reading the two points separately will lead to ambiguity. Kindly confirm.	No change
275	3.2.1	3.General Conditions of Contract 3.2.1 Information to Bidders	1.The Bidder is encouraged to carry out its own assessment about the site conditions, material, equipment, site survey reports etc. as required to make an informed decision	25	Assessment shall be limited to the details / requirements as mentioned in the RFP any change / additional requirement arising out of the Tender document / RFP shall lead to price adjustment with increase in Timelines for Project Schedule	Clause is Self-Explanatory
276	3.2.1	Information to Bidders	5. Any change in layout due to site conditions or technological requirement shall be binding on the PIA. In such a scenario, if there is any delay from the scheduled implementation period, the PIA shall be granted a reasonable extension of time and cost.	25	For any reasonable extension of time and cost same shall be notified to APSFL for approval which shall not be unreasonably withheld within 5 days of PIA's submission of request. After the written approval from APSFL, the related work will be initiated by PIA.	Clause is Self-Explanatory
277	Section 3 General Conditions of Contract	3.1.4	The documents forming the Contract shall be interpreted in the following order of priority: a. Agreement b. Letter of Acceptance, notice to proceed with the works c. Bill of quantities (Price-bid) d. Technical bid e. Conditions of contract f. Specifications g. Any other document listed as forming part of the Contract.	25	Clarifications, amendments, corrigendums etc may be sequenced at S. No. c) before Bill of Quantities (Price Bid) in order of precedence or priority.	Clause is Self-Explanatory
278	Section 3 General Conditions of Contract	3.2.1	The Bidder shall himself independently obtained all necessary information for preparing its bid, and its bid as accepted shall be deemed to have considered all contingencies as may arise due to such information or lack of the same. The Bidder is encouraged to carry out its own assessment about the site conditions, material, equipment, site survey reports etc. as required to make an informed decision.	25	The Bidder will carry out its own assessment about the site conditions, material, equipment, site survey reports etc. as required to make an informed decision, however the same will be limited to the details / requirements as mentioned in the Tender Document / RFP. Bidder is liable to prepare the Bids based on the information provided in the Tender Document / RFP. Any change / additional requirement arising out of the Tender document / RFP shall lead to price adjustment with increase in Timelines for Project Schedule. Please confirm.	Clause is Self-Explanatory
279	Section 3 General Conditions of Contract	3.2.2	Any error in description of quantity or omission there from shall not vitiate the Contract or release the Selected Bidder from executing the work comprised in the Contract at the contracted price. He is deemed to have known the scope, nature and magnitude of the works and the requirements of materials and labor involved, etc. and as to what all works he must complete in accordance with the Contract documents whatever be the defects, omissions or errors that may be found in the Documents.	25	The Bill of Quantities as mentioned in the RFP and for which the Bidder has quoted shall prevail over any other additional requirement as identified in the Tender / RFP / future Contract. The bidder is liable to suffice and supply / install / commission the Bill of quantities based on which the prices are quoted. Please confirm.	Clause is Self-Explanatory
280	Section 3 General Conditions of Contract	3.2.2	The PIA shall be deemed to have visited surroundings, to have satisfied himself to the nature of all existing structures if any and also as to the nature and the conditions of the Railways, Roads, Bridges and Culverts, means of transport and communication, whether by land, water or air, and as to possible interruptions thereto and the access and egress from the site, to have made enquiries examined and satisfied himself as to the sites for obtaining sand, stones, bricks, cables, pipes and other materials the sites for disposal of surplus materials the available accommodation as to whatever required, depots and such other buildings as may be necessary for executing and completing the works, to have made local independent enquiries as to the sub-soil, sub-soil water and variations thereof, storms, prevailing winds climatic conditions and all other similar matters effecting these works. He is deemed to have acquainted himself as to its liability of payment of Government / Statutory Taxes, Customs duty and other charges, levies, etc. at the time of submission of Bid.	25	The duration of Bid submission from issuance of Tender documents / RFP is only 33 days and the scope of Bid includes 670 Blocks with 12746 GPs. Assessing the details as identified in the referred clause as a prerequisite to preparation of Bid is next to impossible can not be completed within the stringent time frame of just 33 days. In this regard, It is requested to kindly remove this requirement and since techno/feasibility study would have been made at your end, hence kindly provide these details to the Bidders for preparing a justified Bid.	Clause is Self-Explanatory
281	Section 3 General Conditions of Contract	3.2.5	Any change in layout due to site conditions or technological requirement shall be binding on the PIA. In such a scenario, if there is any delay from the scheduled implementation period, the PIA shall be granted a reasonable extension of time and cost.	25	In such a scenario, the increase in Completion Time and Cost implication due to the same shall be submitted to Customer for their prior approval which shall not be unreasonably withheld and which will be provided by Customer within 7 days of Contractor's submission of request. After the written approval from Customer, the related work will be initiated by Contractor.	Clause is Self-Explanatory
282	3.3	Delegation	APSFL may delegate any of its duties and responsibilities to other officers / agencies and may cancel any delegation by an official order issued.	26	Notification of change of delegation to PIA to be provided	Agreed
283	3.6	3.6 Insurance	General: PIA shall at its own expense arrange secure and maintain insurance with reputable insurance companies to the satisfaction of APSFL b. Any loss or damage to the equipment, during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the work is taken over by APSFL shall be to the account of PIA	27	The clause under reference mentions requirement of insurance by PIA till commissioning. Please confirm if insurance will be arranged by APSFL during O&M phase for equipment , spare parts and other items.	Clause is Self-Explanatory
284	GCC	3.2	The PIA shall be deemed to have visited surroundings, to have satisfied himself to the nature of all existing structures if any and also as to the nature and the conditions of the Railways, Roads, Bridges and Culverts, means of transport and communication, whether by land, water or air, and as to possible interruptions thereto and the access and egress from the site, to have made enquiries examined a	27	APSFL shall obtain the necessary permissions for the Bidder to access the site during his pre-bid visits. pls confirm	Clause is Self-Explanatory

285	Section 3 General Conditions of Contract	3.6.b	Any loss or damage to the equipment, during ocean transportation, port/ custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the Work is taken over by APSFL shall be to the account of PIA. PIA shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/ or replacement of the parts of the Work damaged or lost. PIA shall provide APSFL with a copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the PMA/APSFL immediately upon the PIA having taken such insurance coverage.	27	Since the Insurance scope is till Commissioning and the work is taken over by APSFL, hence subsequently after commissioning, APSFL will take the insurance for AMC period. In this regard, during AMC, in case of any loss / theft / vandalism / weather conditions / pilferage / accidents of all kinds / force majeure and other conditions / reasons which are not attributable to Contractor which may damage the equipment / material / work, an additional work order / purchase order shall be provided / issued to Contractor for making the damages good and no penalties will be applicable in such cases.	Clause is Self-Explanatory
286	Section 3 General Conditions of Contract	3.6.f	PIA should submit copy of the Insurance policy/policies to APSFL 21 days of the receipt of PO. The Insurance policy/policies should be valid till at least 3 months beyond the scheduled implementation date mentioned in PO and should be extended in case project implementation is delayed.	27	Since the Insurance scope is till Commissioning and the work is taken over by APSFL, hence subsequently after commissioning, APSFL will take the insurance for AMC period. In this regard, during AMC, in case of any loss / theft / vandalism / weather conditions / pilferage / accidents of all kinds / force majeure and other conditions / reasons which are not attributable to Contractor which may damage the equipment / material / work, an additional work order / purchase order shall be provided / issued to Contractor for making the damages good and no penalties will be applicable in such cases.	Clause is Self-Explanatory
287	3	3.9	If at any time during the performance of the contract, the PIA encounters condition impeding timely performance of service, the PIA shall: a. Promptly notify to APSFL in writing the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the PIA's notice, APSFL shall evaluate the situation and may at its discretion extend the period for performance of the contract (by not more than 26 weeks). b. If the PIA fails to complete the work even during extended implementation period then the PO shall be short-closed and the Performance Bank Guarantee shall be forfeited	29	If there is any delay in the scope which is not done under the PIA then APSFL will extend the performance of contract more than 26 weeks to a maximum of 70 weeks .	No change
288	3.6 Insurance	c		29	Request to kindly relax the clause and adopt existing other state led Bharatnet RFP Like Mahanet RFP terms . As per insurance standard claim process request to claim is Minimum 2 lac for an instant and most of the claim per instant is less than 2 lakhs were PIA are not eligible to claim	No change
289	Section 3 General Conditions of Contract	3.8.3	Provided, also that if the contract is terminated under this clause, APSFL shall be at liberty to take over from PIA at a price to be fixed by APSFL, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of implementation which may be in possession of PIA at the time of such termination or such portion thereof as APSFL may deem fit, except such materials, bought out components and stores as the PIA may with the concurrence of the Department elect to retain.	29	In the event of termination of Contract by Customer due to Force Majeure event, the takeover price of the unused, undamaged and acceptable materials, bought out components and stores in course of implementation which may be in possession of Contractor at the time of such termination or such portion shall be as per Contract Price breakup. The payments awaited by the Contractor / pending to be paid to Contractor will be released within 7 days of termination. The Bank Guarantees available with Customer will be returned promptly within 7 days of termination. Please confirm.	Clause is Self-Explanatory
290	Section 3 General Conditions of Contract	3.9.1	Performance of the services shall be made by the PIA in accordance with the implementation schedule specified by APSFL in its purchase order. In case the work is not completed in the stipulated period, as indicated in the Purchase Order, APSFL reserves the right either to short-close/cancel this purchase order and/or impose Liquidated Damages. The cancellation/short-closing of the order shall be at the risk and responsibility of the PIA and APSFL reserves the right to get the balance work completed at the risk and cost of the defaulting PIA.	29	The condition mentioned is very stringent. Please confirm that LD(s) as applicable in the Contract will only be levied in case of delay in work completion.	Clause is Self-Explanatory
291	Section 3 General Conditions of Contract	3.9.2	Delay by the PIA in the performance of its work obligations shall render it liable to any or all of the following sanctions: a. Imposition of Liquidated Damages, and/or b. Short-closure of the contract and/or for forfeiture of its performance security in part or full and/ or termination of the contract for default after giving minimum 3 opportunity to rectify the issues as raised by APSFL.	29	The condition mentioned is very stringent. Please confirm that LD(s) as applicable in the Contract will only be levied in case of delay in work completion.	Clause is Self-Explanatory
292	Section 3 General Conditions of Contract	3.9.3	If at any time during the performance of the contract, the PIA encounters condition impeding timely performance of service, the PIA shall: a. Promptly notify to APSFL in writing the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the PIA's notice, APSFL shall evaluate the situation and may at its discretion extend the period for performance of the contract (by not more than 26 weeks). b. If the PIA fails to complete the work even during extended implementation period then the PO shall be short-closed and the Performance Bank Guarantee shall be forfeited.	29	We understand that this clause is applicable for the reasons only attributable to the PIA. However the time extension and cost implication will be provided by the Customer at actuals for the delay arising due to reasons beyond the reasonable control of PIA and not attributable to PIA and the same will be added up to the stipulated clause. Please confirm.	Clause is Self-Explanatory
293	Section 3 General Conditions of Contract	3.9.4	Liquidated Damages Should the PIA fail to deliver the services as per the contract and the implementation plan submitted by PIA and accepted by PMA and APSFL during planning stage within the period prescribed, APSFL, without prejudice to other remedies available to APSFL shall be entitled to recover, as agreed liquidated damages, a sum equivalent to 0.5% of the implementation cost of the GP's delayed for each week of delay or part thereof for a period up to 13 weeks. Thereafter, 0.7% of the implementation cost of the GP's delayed for each week of delay or part thereof for a period up to another 13 weeks.	29	Two different Clauses are mentioned in the RFP. Please confirm that Clause of liquidated Damages at Page 144 is to be followed and Clause 3.9.4 at Page 29 is to be deleted.	Please refer 3.9.4
294	3.1	Works completed by scheduled completion date	4) LD percentage: Should the PIA fail to deliver the services as per contract and the implementation plan submitted by PIA..... APSFL shall be entitled to recover, as agreed liquidated damages, a sum equivalent to 0.5% of the implementation cost of GPs delayed for each week of delay or part thereof for a period of upto 13 weeks. Thereafter, 0.7% of the implementation cost of the GPs delayed for each week of delay or part thereof for a period of another 13 weeks.	30	1. The three definitions of LD, percentage of LD to be levied and capping are contradictory. Kindly confirm the correct definition. 2. Any delay not attributable to PIA will be to APSFL's scope and time extension with additional cost shall be granted to PIA in execution schedule at actuals. The Liquidated Damage / penalties (of any kind / nature will not be applicable in such cases.)	The maximum capping on LD shall be 12% of the project cost

295	3.8	Force Majeure	<p>provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist.</p> <p>Provided, also that if the contract is terminated under this clause, APSFL shall be at liberty to take over from Contractor at a price to be fixed by APSFL, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of implementation which may be in possession of Contractor at the time of such termination or such portion thereof as APSFL may deem fit, except such materials, bought out components and stores as the Contractor may with the concurrence of the Department elect to retain.</p> <p>Following events shall not be considered as Force Majeure Event: Cyclones that are not above the speed of 100 kms/hours.</p>	30	<p>1. Force majeure in the first para denies termination from parties whereas the second para is providing termination (Conflicting statement).</p> <p>2. Contractor at its best of knowledge not able to determine the speed of cyclones at 100km/hour</p> <p>3. In the event of termination of Contract by APSFL due to Force Majeure event, the takeover price of the unused, undamaged and acceptable materials, bought out components and stores in course of implementation which may be in possession of PIA at the time of such termination or such portion shall be as per Contract Price breakup. The payments pending to be paid to PIA will be released within 5 days of termination. The Bank Guarantees available with APSFL will be returned promptly within 5 days of termination.</p>	Clause is Self-Explanatory
296	Section 3 General Conditions of Contract	3.9.4.a	Extension for the execution of services will not be given except in exceptional circumstances like critical ROW, Natural calamities etc.	30	Please confirm that the extension of time with additional cost shall be provided to PIA for the reasons beyond its reasonable control and not attributable to PIA. The Liquidated Damage / penalties (of any kind / nature) will not be applicable in such cases.	Clause is Self-Explanatory
297	Section 3 General Conditions of Contract	3.9.4.b	The Bidder shall not complete the works after expiry of the contracted implementation period, without prior concurrence of APSFL and be accepted by the PMA. The acceptance will not deprive APSFL of its right to impose Liquidated Damages on PIA.	30	<p>Please confirm the time frame of providing the acceptance / consent / concurrence of APSFL for providing approval to PIA for working beyond the contracted implementation schedule.</p> <p>We understand that in case the work is not completed within contracted original delivery schedule period (with no time extension provided to PIA), the PIA is required to stop the work for any reason whatsoever.</p>	Clause is Self-Explanatory
298	Section 3 General Conditions of Contract	3.9.4.e	Any delay attributable to grant of permission by the requisite Right of Way APSFL or any other approvals beyond 30 days from the first application date shall be exempt from calculation of Liquidated Damage charges.	30	Please appreciate that the implementation timelines are very stringent. In this regard, taking into account time as the essence of the Contract, the ROW/ any inputs / approvals shall be provided within 7 days of submitting the application. In case the inputs / approvals / ROW etc. as Customer's Obligations are not provided within 7 days from PIA's first application date, the time extension will be granted for delayed receipt of such inputs / approvals / ROW etc. at actuals	Clause is Self-Explanatory
299	Section 3 General Conditions of Contract	3.9.4.f	Any delay due to APSFL will be excluded from execution schedule.	30	We understand that any delay not attributable to PIA will be to APSFL's scope and time extension with additional cost shall be granted to PIA in execution schedule at actuals. The Liquidated Damage / penalties (of any kind / nature) will not be applicable in such cases.	Clause is Self-Explanatory
300	3	3.12.1	In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and Right of Way from the concerned authorities beyond 60 days, then the PIA shall be given due extension of time for the completion of the Work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of its Work.	31	Request to pls revise time from 60 days to 7 days	No change
301	3.12	Delays by APSFL or its authorized agents	1) In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and right of way from the concerned authorities beyond 60 days, then the PIA shall be given due extension of time for the completion of work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of work.	31	Seeking RoW permission is the responsibility of the APSFL (clause 3.27). Therefore, PIA must be given extension of time for completion of works, in the event the work is delayed due to delay in ROW permission. Thus, the condition of extension of time to PIA only after delay of 60 days in ROW does not seem justifiable and must be amended. Suggested clause: 1) In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and right of way from the concerned authorities, then the PIA shall be given due extension of time for the completion of work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of work. Also this clause is in contradiction to clause 3.9 (4f)	No change
302	GCC	3.8	3. Provided, also that if the contract is terminated under this clause, APSFL shall be at liberty to take over from Contractor at a price to be fixed by APSFL, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of implementation which may be in possession of Contractor at the time of such termination or such portion thereof as APSFL may deem fit, except such materials, bought out components and stores as the Contractor may with the concurrence of the Department elect to retain.	31	<p>1) Pls provide for necessary Extension of time and compensation in the event of a Force Majeure.</p> <p>2) Further, the decision of APSFL shall be "final and binding" is requested to be removed since it can be subject to arbitration/ decision by a court if need be.</p> <p>3) Also, upon termination as per sub-clause 3 herein, the payments towards works performed upto the date of termination has to be paid to the bidder. please confirm</p>	Clause is Self-Explanatory
303	GCC	3.9	Performance of the services shall be made by the PIA in accordance with the implementation schedule specified by APSFL in its purchase order. In case the work is not completed in the stipulated period, as indicated in the Purchase Order, APSFL reserves the right either to short-close/cancel this purchase order and/or impose Liquidated Damages. The cancellation/short-closing of the order shall be at the risk and responsibility	31	The short-closure rights or right to impose liquidated damages shall be for delay in performance of the Contract for reasons solely attributable to the Bidder. Pls confirm	Clause is Self-Explanatory
304	Section 3 General Conditions of Contract	3.12.1	In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and Right of Way from the concerned authorities beyond 60 days, then the PIA shall be given due extension of time for the completion of the Work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of its Work.	31	<p>Please appreciate that the implementation timelines are very stringent. In this regard, taking into account time as the essence of the Contract, the ROW/ any inputs / approvals shall be provided within 7 days of submitting the application. In case the inputs / approvals / ROW etc. as Customer's Obligations are not provided within 7 days from PIA's first application date, the time extension will be granted for delayed receipt of such inputs / approvals / ROW etc. at actuals.</p> <p>It is directly implied that 8 weeks delays for the reasons not attributable to PIA is being passed on to PIA which is unjustified.</p>	Clause is Self-Explanatory
305	3.16	Price Schedule and Payments	4(b) The PIA shall indemnify.....against all interest, attachments, octroi or other municipal....shall be borne by the PIA.	32	Typographical error: "Octroi" has been subsumed under GST regime and must be deleted.	Please Refer Corrigendum
306	3 Page 32	3.15	4. The PIA shall, without extra charge, provide all assistance to PMA with every appliance (roadometer, PON OTDR along with printer attached to it, etc.), required work force while inspection of sites, and other things necessary for measurements and recording levels. Camera enabled with GIS coordinates will be owned by PIA.	32	It is not clear who will provide Roadometer, PON OTDR. Since this tender is only for Active components, kindly remove this.	This requirement is for Fibre Network and will be provided by PIA of Fiber Network Project.

307	GCC	3.1	When Contract can be Determined	32	60 days notice to cure defect is requested to provided by APSFL. Further, PSI shall be entitled to claim for all payables including invoice amounts and costs/ compensation if any payable by APSFL prior to date of termination- please confirm	Clause is Self-Explanatory
308	Section 3	3.1.5-Verification of Measurements of Work Done	The PIA shall, without extra charge, provide all assistance to PMA with every appliance (roadometer, PON OTDR along with printer attached to it, etc.), required work force while inspection of sites, and other things necessary for measurements and recording levels. Camera enabled with GIS coordinates will be owned by PIA.	32	Please clarify the requirement of the tools with detail specification & quantity	No change
309	Section 3 General Conditions of Contract	3.16.2	The PIA shall be deemed to have known the nature, scope, magnitude and the extent of the Work though the Contract Document may not fully and precisely furnish them. The PIA shall make such provision in the Price Schedule as it may consider necessary to cover the cost of such items of Work as may be reasonable and necessary to complete the Work.	32	Bidder is liable to prepare the Bids based on the information provided in the Tender Document / RFP. Any change / additional requirement arising out of the Tender document / RFP shall lead to price adjustment with increase in Timelines for Project Schedule. Please confirm.	Clause is Self-Explanatory
310	Section 3. General Conditions of Contract	3.16.3	Price Schedule and Payments Price Schedule to cover Construction Equipment, Stores, Materials, Labour, etc. Fuel Assumption	32	We understand that at NOC/GP/POP/Taluka, wherever DG has been newly installed under this RFP, Fuel Filling responsibility will be of PIA and Fuel filling cost will be borne by PIA but Fuel cost will be borne by APSFL. Kindly confirm	Yes
311	3	3.17	Payment Terms	33	Since availability of funds will be a critical factor for success of the project and release of payment in "time bound manner" is one of the most important obligations for APSFL as purchaser, we request that at each milestone payment be released maximum within 30 days of submission of invoices by the PIA. Please confirm.	No change
312	3	3.17	Payment Terms	33	Request please provide detail of APSFL SPOCs and documents to be approved by these SPOC required for Invoice processing	Details will be shared on signing of contract
313	3	3.17.1	Commissioning of GP	33	Request please confirm list of activities to be completed before a GP could be declared as commissioned .	Clause is Self-Explanatory
314	3.17	Payment Terms	c. Third Milestone - Balance 5% payment of the cost towards supply of material and services will be made after start of O&M and submission of O&M PBG.	33	Payment shall be made GP wise after completion of every quarter arrears , hence O&M Performance Bank Guarantee (PBG) is not required	No change
315	Section 3 General Conditions of Contract	3.17	Mobilization advance of 10% of the PO value will be given to the vendor, on its request, against submission of Bank Guarantee of equivalent amount.	33	Please confirm that BG of equivalent amount of advance is to be submitted. Further, the advance is not adjusted in the milestone payments of Supply and Services.	Please Refer Corrigendum
316	Section 3 General Conditions of Contract	7	Implementation cost would be sum total cost calculated by multiplying each of the above quotes with the respective estimated quantities, i.e., total sum of all values of price schedule shall be the implementation cost.	33	Please confirm that the Implementation Cost means Total Purchase order value (except AMC Contract Price).	Clause is Self-Explanatory
317	Section 3 General Conditions of Contract	6.a	Subject to the terms of the Contract documents, the Price Schedule shall be deemed to include and cover the risk of all possibilities of delay and interference with the PIA's conduct of Work which occur from any causes including orders of APSFL in the exercise of its power and because extension of time granted due to various reasons and for all other possible or probable causes of delay.	33	Calculation / taking price due to the risks for delays which are not attributable to PIA and beyond its reasonable control is almost impossible and not feasible. In this regards, any increase in cost due to reasons not attributable to PIA and beyond its reasonable control will be claimed / passed on to APSFL at actuals.	Clause is Self-Explanatory
318	Section 3 General Conditions of Contract	8.a	The payments would be made within 30 days as per the conditions specified in the Payment Terms after deducting LD, if any, as applicable. The PIA shall not be entitled to be paid any other interim payment except as per the above.	33	The establishment of LD applicability must be mutually agreed between PIA and Customer. In this regard, the deductions of LDs from interim payments as per payment terms is not feasible and appropriate. Please confirm that no LD will be deducted from the due payments.	Clause is Self-Explanatory
319	3	3.17.c	OTDR link test reports to be submitted during Commissioning of GP	34	Request to please reconsider this requirement from PIA, since fiber laying would not be done by PIA.	Clause is Self-Explanatory
320	3.17	Payment Terms	Commissioning of GPs in a month	34	Incase the fiber is not being commissioned for a particular GP, then the PIA should not be held responsible for delay in commissioning of active for that particular GP. The payments related to service commissioning for such GPs should be processed within 45 days of delivery of material. The PIA will commission the GP subsequently after fiber is made available on best effort basis. There will not be charges related to LD/ penalties for such GPs	Accepted
321	3.17 Page 34	3	Definition of Block commissioning.	34	Definition of Block Commissioning We understand that Block would be treated as commissioned once a Block IP/MPLS equipments are integrated in ems/NMS at NOC. B. 25% GPs in Block is also integrated with ems/NMS at NOC. Please clarify.	Block would be treated as commissioned once a. Block IP/MPLS equipments are integrated in ems/NMS at NOC. B. 80% GPs in Block is also integrated with ems/NMS at NOC.
322	GCC	3.16	The unit prices/ rates quoted by the PIA shall remain firm till all the Gram Panchayats in the package have been commissioned and shall not be subject to escalation, except if otherwise provided in the Contract documents.	34	Please clarify if there will be price variation in case of "Change in law" event apart from change in taxes applicable and also in case of Change Order by APSFL.	Clause is Self-Explanatory
323	Instructions to Bidder	3.17	Payment Terms	34	BG towards mobilization advance should be 100% instead of 110% as mentioned in tabke	BG of 110% of mobilization advance
324	Instructions to Bidder	3.17	Payment Terms	34	Same set of documents required to be submitted in IInd and IIIrd milestone. All this document need to submitted with final invoice	No change
325	Section 3	General	OTDR link test reports to be submitted during Commissioning of GP	34	The same is not relevant for this RFP. Kindly confirm	No change
326	Section 3	General	OTDR link test reports to be submitted during Commissioning of GP	34	The same is not relevant for this RFP. Kindly confirm	Clause is Self-Explanatory
327	Section 3 General Conditions of Contract	3.17 Table S. No. 1	Against submission of BG of 110% of mobilization advance	34	"Please confirm that BG of equivalent amount of advance is to be submitted. Further, the advance is not adjusted in the milestone payments of Supply and Services."	BG of 110% of mobilization advance shall be submitted . The advance shall not be adjusted in milestone payments
328	Section 3-General Conditions of Contract	3.22 Materials to be provided by the PIA	The bidder shall enter into legally binding agreement with the OEM/ ToT Partner for supply, installation and commissioning during 7 years Operation & maintenance period (including warranty period). Copy of such agreement shall be furnished with the bid.	34	We understand Bidder's need not to submit separate Teaming Agreement as the MAF format provided in the RFP suffice the requirement as it confirms the support from OEM. Please allow bidders to submit teaming agreement agreement copy with OEMs during project execution. Please confirm. Still if bidder's need to submit separate Teaming Agreement apart from MAF, kindly share the format of Teaming agreements.	The bidder shall provide MAF from OEM clearly mentioning OEM support for supply, warranty, installation & commissioning and support for period of seven years in O&M phase.
329	3	3.17 (C)	Balance 5% payment of the cost towards supply of material and services will be made after start of O&M and submission of O&M PBG	35	Success of this project will largely depend upon smooth flow of funds to the PIA. We, therefore, request that the last 5% payment both against supply and services be made at second milestone (after commissioning of GPs) against Bank Guarantee for equivalent amount. All these Bank Guarantee may be released after submission of PBG for O&M by the PIA. Please confirm.	No change

330	3.19 Page 35	c.	PMA shall submit its bills to APSFL. APSFL shall exercise the prescribed checks on the bills provided by PMA and make payments to PIA within 30 days of receipt of bills	35	Incase of delays in payment of bills by more than 15 days over & above the 30days period after receipt of bills, then APSFL should pay interest to PIA at the rate of 1% per month on the over due payments.	No change
331	3.19 Page 35	c.	PMA shall submit its bills to APSFL. APSFL shall exercise the prescribed checks on the bills provided by PMA and make payments to PIA within 30 days of receipt of bills	35	Incase of delays in payment of bills by more than 15 days over & above the 30days period after receipt of bills, then APSFL should pay interest to PIA at the rate of 1% per month on the over due payments.	No change
332	Instructions to Bidder	3.17	Payment Terms	35	Work flow/touch points for processing of Invoices and payments should be defined.	No change
333	Payment Terms	3.17	The first bill for payment against supplies shall be restricted to 60% of the eligible claim. And Second Milestone The vendor can submit his claim for second milestones towards commissioning of the GPs on GP-wise i.e. for each GP commissioned the vendor can submit his claim towards remaining 25% of the material supplied and 75% claim towards services.	35	Kindly consider First Milestone - The first bill for payment against supplies shall be restricted to 70% of the eligible claim. b. Second Milestone each GP commissioned the vendor can submit his claim towards remaining 15% of the material supplied and 80% claim towards services.	Clause is Self-Explanatory
334	Section 3 General Conditions of Contract	Timely Action by PMA 1	The PMA responsible for surprise audits of work. A notice in writing during the progress of work asking the PIA to rectify/replace/remove the sub-standard item of work and also definite time period within which such rectification/removal/replacement has to be done. After expiry of the notice period, if the PIA fails to rectify/ replace/ remove the sub-standard items, the defects shall be rectified/replaced/removed by APSFL, at its sole discretion, through some other agency at the risk and cost of the PIA.	35	In order to support PMA in the Audit related activities, the Audits must be planned / periodical so that execution timelines may not be impacted. Please replace the word "surprise" with "planned / scheduled" in the referred clause.	Clause is Self-Explanatory
335	3.21	Levy/ Taxes payable by PIA	Apprentices Act provisions to be complied with the PIA shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, its failure will be a breach of the contract and APSFL may, in its discretion, cancel the contract. The PIA shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act	36	rules of civil liability in case they cause damage, Pecuniary liability is liable only to the measure of damages foreseeable or predictable at the moment the employment contract was signed and not for the unpredictable damages	Clause is Self-Explanatory
336	Section 3	3	IPMPLS Equipment/Other Equipment - Approval from APSFL is required	36	It should meet Technical specifications and Compliance as per Tender - Please confirm what approval of APSFL is required and for what Equipments	No change
337	Section 3 General Conditions of Contract	3.22.1	The PIA shall provide all the material such as Routers, Switches, Servers & all other Accessories and NMS (Hardware & Software) and other items included in the Bill of Material. The list of items shown in Bill of Material are indicative, as such any other material required for successful commissioning of project shall be provided by the PIA at its own cost.	36	Since BOO is the prerequisite of quoting in the Bid, in this regard, the Contract Price will be increased / additional Purchase order / Work Order will be provided by Customer for any addition in the scope beyond BOO identified in the Tender / RFP.	The PIA shall provide all the material such as Routers, Switches, Servers & all other Accessories and NMS (Hardware & Software) and other items included in the Bill of Material. The list of items shown in Bill of Material are indicative. The bidder shall submit detailed BoO for approval of APSFL on signing of contract. Any other material required for successful commissioning of project after approval of BOO beyond the scope of work shall be provided by the PIA as per mutually agreed terms & conditions on case to case basis.
338	Section 3 General Conditions of Contract	3.22.3.a	Technical-commercial conditions for procurement of IPMPLS and associated Equipment/Material by the bidder: a. Should be as approved by APSFL against the respective technical specifications	36	Since Time is the essence of the Contract, hence there shall likely be a delay in getting the approval from Customer and multiple reiterations while getting the approvals of such requirements from Customer. In this regards, this condition is requested to be waived off. Please confirm.	Clause is Self-Explanatory
339	Section 3 General Conditions of Contract	3.22.3.c	All the Items shall be as approved by APSFL against the respective technical specifications.	36	Since Time is the essence of the Contract, hence there shall likely be a delay in getting the approval from Customer and multiple reiterations while getting the approvals of such requirements from Customer. In this regards, this condition is requested to be waived off. Please confirm.	Clause is Self-Explanatory
340	3.24	Works to be executed in accordance with the engineering instructions	3) Deviations/ variation extent and pricing... (a) Any operation incidental or necessary for proper execution of the items included in the bill of material, whether or not specifically indicated in the description of the item and the relevant specifications shall be deemed to be included in the rate quoted by the bidder. Nothing extra shall be admissible for such operations.	37	Any additional work or rework required to be carried out for reasons not attributable to the PIA shall be to APSFL's account, and all costs associated with such additional work/ rework shall be reimbursed to PIA.	Clause is Self-Explanatory
341	Instructions to Bidder	3.24.3	Deviations/Variations Extent and Pricing	37	APSFL shall have power to make alteration in or addition to agreed project scope. It is further specified in the clause that works, shall be carried out by the PIA on the same conditions in all respects and subject to the terms of Contract, the same price on which he agreed to do the main Query - Whether in case of addition of scope, quantity of existing item will be added so as to increase total price of the scope. Also, in case of addition of any new item, how price of the item will be determined.	No change
342	Section 3 General Conditions of Contract	3.23.1	APSFL, for the extended implementation period, if any, will determine and intimate the new price, taking into account various related aspects such as quantity, geographical location etc., and the date of its effect for the balance service to the PIA. In case the PIA does not accept the new price to be made applicable during the extended implementation period and the date of its effect, APSFL shall have the right to terminate the contract without accepting any further services. This termination of the contract shall be at the risk and responsibility of the PIA and APSFL reserves the right to purchase the balance unsupplied quantity/ service at the risk and cost of the defaulting PIA besides considering the forfeiture of its performance security.	37	The same is applicable for extended delivery period for the reasons attributable to PIA. In case the extended delivery period is due to reasons not attributable to PIA, then this clause is not applicable. Please Confirm.	Clause is Self-Explanatory
343	Section 3 General Conditions of Contract	3.23.2	The PIA while applying for extension of time for implementation, if any, shall have to provide an undertaking as "We have not reduced the sale price, and/ or offered to sell the same or similar equipment/ service to any person/organization including Department of central/state Government or any central/state PSU at a price lower than the price chargeable under the contract for scheduled implementation period."	37	The same is applicable for extended delivery period for the reasons attributable to PIA. In case the extended delivery period is due to reasons not attributable to PIA, then this clause is not applicable. Please Confirm.	Clause is Self-Explanatory
344	Section 3 General Conditions of Contract	3.23.3	In case undertaking as in the above clause is not applicable, the PIA will give the details of prices, the name(s) of APSFL, quantity etc. to APSFL, while applying extension of implementation period.	37	This clause is not understood. Please elaborate.	Clause is Self-Explanatory
345	Section 3. General Conditions of Contract	4	Foreclosure of contract due to Abandonment of project Suspension of Work	38	O&M is 24*7*365 work and teams are also deployed thereby accordingly. Request to clarify that this suspension of work clause is not applicable to O&M period.	Clause is Self-Explanatory

346	3.25	Foreclosure of contract due to abandonment of contract	1. If at any time after acceptance of the bid, APFSL shall decide to abandon the project for any reason whatsoever and hence not require the whole or any part of the works to be carried out, APFSL shall give a notice in writing to that effect to the PIA and the PIA shall act accordingly in the matter.	39	Since the PIA will be engaged in the execution of project, it is requested that if at any time APFSL decides to foreclose the project, a reasonable notice must be given to the PIA to take corrective actions as per the instructions of APFSL. Therefore, Suggested clause: If at any time after acceptance of the bid, APFSL shall decide to abandon the project for any reason whatsoever and hence not require the whole or any part of the works to be carried out, APFSL shall give a three (3) months notice in writing to that effect to the PIA and the PIA shall act accordingly in the matter.	Clause is Self-Explanatory
347	3. General Conditions of Contract	3.30 Operations & Maintenance (O&M) Phase	3.30.1. The O&M will start after successful completion of AT of first 10% of GPs and from the first calendar day of the subsequent financial month from the date of completion of first 10% of GPs. Subsequent GPs' O&M will start from 1st date of next calendar month. 3.30.3. The Quarterly payment to PIA for Operations and Maintenance Phase will be made for all GPs which are commissioned before the start of the respective quarter. For example, if a GP is commissioned on, it will be considered for quarterly O&M payment only from the quarter starting	39	We suggest to keep the O&M start date and payment schedule from the same date. i.e., 1st day of the next month.	Please Refer Corrigendum
348	3. General Conditions of Contract	3.30 Operations & Maintenance (O&M) Phase	3.30.1. The O&M will start after successful completion of AT of first 10% of GPs and from the first calendar day of the subsequent financial month from the date of completion of first 10% of GPs. Subsequent GPs' O&M will start from 1st date of next calendar month. 3.30.3. The Quarterly payment to PIA for Operations and Maintenance Phase will be made for all GPs which are commissioned before the start of the respective quarter. For example, if a GP is commissioned on, it will be considered for quarterly O&M payment only from the quarter starting	39	We suggest to keep the O&M start date and payment schedule from the same date. i.e., 1st day of the next month.	Please Refer Corrigendum
349	GCC	3.23	3.23 Fall Clause: APFSL, for the extended implementation period, if any, will determine and intimate the new price, taking into account various related aspects such as quantity, geographical location etc., and the date of its effect for the balance service to the PIA. In case the PIA does not accept the new price to be made applicable during the extended implementation period and the date of its effect, APFSL shall have the right to terminate the contract without accepting any further services. This termination of the contract shall be at the risk and responsibility of the PIA and APFSL reserves the right to purchase the balance unsupplied quantity/ service at the risk and cost of the defaulting PIA besides considering the forfeiture of its performance security	39	Request to delete this clause since the Contract Price shall be firm during the entire duration of the contract. Further, the rates fixed up by APFSL is to be accepted by PIA and if not, the contract may be terminated such unilateral termination is rather not equitable. Please reconsider	Clause is Self-Explanatory
350	GCC	3.25	If at any time after acceptance of the bid, APFSL shall decide to abandon the project for any reason whatsoever and hence not require the whole or any part of the works to be carried out, APFSL shall give notice in writing to that effect to the PIA and the PIA shall act accordingly in the matter. The PIA shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.	39	Please provide for 60 days prior notice of foreclosure and also compensation in such a case.	Clause is Self-Explanatory
351	3.25	3. Carrying out part work at the risk and cost of PIA	(iii) The APFSL without prejudice to any other right or remedy against the PIA which have either accrued or accrue thereafter to APFSL, by a notice in writing to take the part work/ part incomplete work of any items out of its hands and shall have powers to....	40	Since the PIA will be engaged in the execution of project, it is requested that if at any time APFSL decides to get the work executed from other contractor, a reasonable notice must be given to the PIA to take corrective actions as per the instructions of APFSL. Therefore, Suggested clause: (iii) The APFSL without prejudice to any other right or remedy against the PIA which have either accrued or accrue thereafter to APFSL, by a 45 days notice in writing to take the part work/ part incomplete work of any items out of its hands and shall have powers to....	Clause is Self-Explanatory
352	3.3	Operations and Maintenance Phase	The O & M will start after completion of first 10% of GPs of respective packages and from the first calendar day of the subsequent financial month from the date of completion of first 10% of GPs.	40	Ambiguity and contradiction in the two definitions given at clause 3.30, clause 2(16). Kindly confirm the correct definition of O&M phase.	"O&M" phase shall mean the phase that begins immediately after the successful commissioning of 80% of Gram Panchayats in the project. The O&M for balance 20% of GPs shall begin after commissioning of the balance GPs. The duration required to initiate O&M for the balance 20% of the GPs shall be adjusted in the 07 years of O&M period to coincide with completion of the O&M period for the initial 80%. The O&M payment for this 20% GPs shall be adjusted at prorata basis from the O&M invoices.
353	3.32	Action in case work not done as per Instructions	If it shall appear to APFSL or the PMA engaged by APFSL for Quality Control and Assurance, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract demand in writing from APFSL specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at its own charge and cost. In the event of the failing to do so within a period specified by APFSL in its demand aforesaid, then the PIA shall be liable to pay compensation at the same rate as under the clause of the contract (for non-completion of the work in time) for this default.	40	Suggested clause : In the event of the failing to do so within a period of 60 days specified by APFSL in its demand aforesaid, and PIA's failure due to its non availability of such quality control and assurance PIA shall notify APFSL, and APFSL shall not impose any compensation to PIA, however if PIA's failure despite of its availability of such quality control and assurance PIA shall be liable to pay the actual cost of such work.	Clause is Self-Explanatory
354	3.36	Arbitration	Any dispute or difference whatsoever arising between the Parties out of or in relation to the construction, meaning, scope..... shall be settled by arbitration in accordance with the rules of arbitration of the Indian council of arbitration and award made in pursuance thereof shall be binding on the parties.	40	Both the clauses seem to be ambiguous, as clause 3.29 states that arbitrator appointment shall be as per Arbitration Act and clause 3.36 makes a reference to Indian council of arbitration, an institutional body associated with FICCI which has its own set of rules for the appointment of arbitrator.	No change
355	GCC	3.25	APFSL shall be bound to take over the materials or such portions thereof as the PIA does not desire to retain	40	Request to please remove the the word "materials" under this clause.	Clause is Self-Explanatory

356	GCC	3.25	Carry out the part work/ part incomplete work of any Item(s) by any means at the risk and cost of the PIA.	40	such costs shall not be more than the Price quoted by the PIA for that portion of the Scope of Works- pls confirm	Clause is Self-Explanatory
357	gcc	3.27	Access to the Site for the Contractor	40	Please provide for necessary compensation and extension of time in case of delay in providing access to site	Clause is Self-Explanatory
358	Instructions to Bidder	3.35	Changes in firm's Constitution to be approved	40	Clause specify that "Approval shall be obtained from APSFL before any significant change in shareholding pattern and/ or management control of the company or its parent company is affected". Query - RFP should define what will be construed as significant change in shareholding pattern and/ or management control of the company or its parent company.	No change
359	3.29	Settlement of Disputes	2. APFSL fails to give notice of its decision.....the agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act 1996	41	Both the clauses seem to be ambiguous, as clause 3.29 states that arbitrator appointment shall be as per Arbitration Act and clause 3.36 makes a reference to Indian council fo arbitration, an institutional body associated with FICCI which has its own set of rules for the appointment of arbitrator.	No change
360	3.39	IPR	APSFL shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by PIA solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract.	41	Suggested clause: IPR shall be mere grant of license for a limited period of time	No change
361	GCC	3.29	Such decision of the Secretary, Energy Infrastructure and Investment Department, Government of Andhra Pradesh in respect of every matter so referred shall be final and binding upon the Contractor and shall forthwith be given effect to by the Contractor, who shall proceed with the execution of the works with all due diligence whether he requires arbitration as hereinafter provided, or not. If the Secretary, Energy Infrastructure and Investment Department, Government of Andhra Pradesh has given written notice of its decision to the Contractor and no claim to arbitration has been communicated to him by the Contractor within a period of thirty days from receipt of such notice, the said decision shall remain final and binding upon the Contractor. If the Secretary, Energy Infrastructure and Investment Department, Government of Andhra Pradesh shall fail to give notice of this decision, as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the Contractor within thirty days after the expiration of the first named period of thirty days as the case may be, require that the matter or matters in dispute be referred to arbitration by an arbitrator appointed by mutual consent of both the parties. The agreement to appoint an arbitrator will be in accordance with the Arbitration & Conciliation Act, 1996.	41	Request to remove final and binding since the order is subject to arbitration. Further, pls confirm that there will be an automatic stay on the order of the Secretary and the execution of the Works by the Contractor if the matter is referred to arbitration within the stipulated period by PSI	Clause is Self-Explanatory
362	3.43	Exit Management	4) In such cases, the Mobilization Advance would be deemed as interest bearing advance at an interest of 10% APFSL reserves the right to recover the amount with interest from additional BG from PIA	42	This clause pertains to exit management i.e. clauses which will apply in case the contract has expired or when the contract is terminated. In either case, i.e. expiration or termination, seeking interest on amount of mobilization advance to the PIA does not seem just since PIA is already giving a bank guarantee against the mobilization advance.	No change
363	GCC	3.36	3.36 Arbitration Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the Rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties.	42	Pls clarify which of the two clauses shall govern the dispute resolution system between the Parties? Whether it is the dispute resolution under Cl. 3.29 or Cl. 3.36	Clause is Self-Explanatory
364	4	4	Project Stakeholders: Roles & Responsibilities (A. APSFL)	43	Since against this tender contract will be concluded between APSFL and the PIA, overall responsibility of roles assigned to CPSU should also rest with APSFL. Also any delays on part of CPSUs should be treated as delays at Owner end and be excluded for the purpose of calculation of LD. Please confirm.	Agreed
365	4	4 (A)	Project Stakeholders: Roles & Responsibilities	43	Purchaser shall have to first perform Mandatory Reciprocal obligations FIRST for PIA/vendor to discharge its' obligations under the contract. In addition to other functions timely discharge of obligations like approval of route survey, acceptance testing, release of payment will be critical factor. There are multiple clauses where PIA/vendor can be penalised for delay in discharge of its' obligations. Please confirm in case obligations of PIA/ vendor are delayed solely due to delay in discharge of reciprocal obligations by PASFL as Purchaser, APSFL shall suitably compensate the PIA/ vendor for the delays, idling, interest etc.	No change
366	4 Page 43	4	Project Stakeholders: Roles & Responsibilities Project Management Agency (PMA) PIA will submit all the documents/forms/certificates to PMA Payment for the respective milestones will be released after verification of documents by PMA.	43	We request to define a TAT of 7 days for PMA to check and validate the documents and send the same to APSFL.	Yes
367	4 Page 43	4	Project Stakeholders: Roles & Responsibilities Project Management Agency (PMA) PIA will submit all the documents/forms/certificates to PMA Payment for the respective milestones will be released after verification of documents by PMA.	43	We request to define a TAT of 7 days for PMA to check and validate the documents and send the same to APSFL.	Yes
368	4	4	Project Stakeholders: Roles & Responsibilities (B. CPSU)	44	Since PIA may not have any control on CPSUs which may create issues, we understand that overall responsibility of coordination with CPSUs shall rest with APSFL. Please confirm.	Agreed
369	Section 4. Project Stakeholders: Roles & Responsibilities	11	SLA compliance during maintenance phase for the network owned by CPSU, as per the terms agreed with APSFL	44	Please clarify the responsibility Matrix of PMA, APSFL, CPSU and PIA in Field maintenance through RACI	Please Refer Corrigendum
370	Section 4. Project Stakeholders: Roles & Responsibilities	12	Provide support for fault diagnosis and repair during maintenance phase for the network components owned by CPSUs	44	Please clarify the responsibility Matrix of PMA, APSFL, CPSU and PIA in Field maintenance through RACI	Please Refer Corrigendum
371	Section 4. Project Stakeholders: Roles & Responsibilities	4	Maintenance Phase Site level coordination with a CPSUs for fault diagnosis and repair	45	Please clarify the responsibility Matrix of PMA, APSFL, CPSU and PIA in Field maintenance through RACI	Clause is Self-Explanatory

372	5	5.3, 5.4	Commissioning of 25% GP's in a package : T+3 Months; Commissioning of 60% GP's in a package: T+5 Months	47	Request pls revise timelines for 25% GP commissioning and 60% GP commissioning to T+5 and T+7 months respectively, since GP commissioning would start only after NOC/DR NOC commissioning. NOC/DR NOC commissioning requires to make 10000 Sq ft office ready and hence more time is needed to achieve timelines doe 25% and 60% GP commissioning.	Clause is Self-Explanatory
373	5	5.3, 5.4	Commissioning of 25% GP's in a package : T+3 Months; Commissioning of 60% GP's in a package: T+5 Months	47	Request pls revise timelines for 25% GP commissioning and 60% GP commissioning to T+5 and T+7 months respectively, since GP commissioning would start only after NOC/DR NOC commissioning.	Clause is Self-Explanatory
374	5 Page 47	5	Project Schedule	47	Monthly target for commissioning of GPs should be linked with end to end fibre readiness for number of GP of previous month. Therefore we request to change project milestone as Award of PO/ Contract T Completion of Site Survey of entire state T+1 Commissioning of 25% GP's or number of GPs ready in previous month with end to end fibre connectivity whichever is lesser T+3 Commissioning of 60% GP's or balance number of GPs ready in previous month with end to end fibre connectivity whichever is lesser T+5 Commissioning of 90% GP's or balance number of GPs ready in previous month with end to end fibre connectivity whichever is lesser T+8 Commissioning of balance 10% GP's or balance number of GPs ready in previous month with end to end fibre connectivity whichever is lesser T+9 If there are still balance GPs which could not be made ready with end to end connectivity, APFSL will discuss with PIA and jointly agree on implementation timeline.	No change
375	5 Page 47	5	Project Schedule	47	Also as commissioning of equipment depends on establishment of fiber connectivity it is important that both the fiber implementation partner & active implementation partner works in tandem with with each. In this regard we request APFSL to release a RASCI matrix (similar to MH BN) where the roles and responsibility of various stake holders are clearly defined.	Refer corrigendum for RASCI matrix
376	Section 3	5-Project Schedule	Project Milestone	47	Delivery of 25% GPs in T+3 Months is not possible considering the high lead times for the OEMS. Request to shift target by 1 month.	No change
377		5		47	As this project involved approximately 13000 GPs and 700 Blocks to be covered all over the state, we kindly request you to change the milestone as : Award of PO :- T Completion of site survey for the entire state : - T+2 Commissioning of 25% of GP's in a package : T+6 Months Commissioning of 60% of GP's in a package :T+12 months Commissioning of 90% of GP's in a package : T+18 Months Commissioning of balance 10% of GP's in a package :T+22 Months	No change
378	6	6	Scope of Work	48	Request pls confirm timeline for availability of backhaul media availability i.e. Fiber readiness. Also request to pls consider link GP commissioning targets with Fiber availability since GP commissioning qork can start only after fiber is available and tested OK.	Clause is Self-Explanatory
379	6.1	Network Architecture	*IP/MPLS will provide connection-oriented paths, protection and restoration mechanisms, comprehensive operations, administration, and Maintenance (OAM) functions for seamless network operation using dynamic control plane.*	48	Additional flexibility of doing the seamless network operation using SDN/Controller or NMS is in line with modern network design and will offer greater vendor participation and should be allowed. We recommend the clause to be modified as *MPLS will provide connection-oriented paths, protection and restoration mechanisms, comprehensive operations, administration, and Maintenance (OAM) functions for seamless network operation.* Kindly confirm.	No change
380	6.1	Network Architecture	*This layer will deploy scalable IP/MPLS Routers and should act as service edge layer for insertion of any kind of services (native L2, L3, MPLS VPN, Multicast etc.).	48	Service Flexibility is the Service layer that resides on top of the MPLS LSP Layer. These services can be offered with IP/MPLS and MPLS-TP equipment and so MPLS-TP based Aggregation Routers are acceptable and will allow greater choice of vendors. We recommend the clause to be modified as " *This layer will deploy scalable MPLS devices and should act as service edge layer for insertion of any kind of services (native L2, L3, MPLS VPN, Multicast etc.)." Kindly confirm,	No change
381	6.1	Network Architecture	Point of Presence (PoP) would be created at the APSFL Mandal Headquarters and GP level	48	We understand that Power and space will be taken care by APSFL in this case, please confirm.	Yes
382	6.1	Network Architecture	Point of Presence (PoP) would be created at the APSFL Mandal Headquarters and GP level	48	Since the BBNL routers will be kept at the same place as APSFL routers, Please clarify if there be any back to back connectivity with APSFL network devices.	Yes. The new network being built will be connected to existing APSFL Network
383	6.1	Network Architecture	Point of Presence (PoP) would be created at the APSFL Mandal Headquarters and GP level	48	If above is true, kindly advice the amount of bandwidth available for BBNL router upstream. Please clarify.	Clause is Self-Explanatory
384	6.1	Network Architecture	Network Diagram	48	Here there are two cases, 1st - use of existing connectivity with APSFL 2nd - raise the request for another link from APSFL / MPLS service provider. Kindly advice, if we can use the existing connectivity with APSFL	Clause is Self-Explanatory
385	6.1	Network Architecture	Network Diagram	48	Since there are two networks connected back to back, Please clarify the methodology for SLAs calculation.	SLAs as per the scope of the network built as part of RFP
386	6.1	Network Architecture	Diagram depicts back to back connectivity between APSFL / 3rd prty MPLS router and Mandal router	48	With IP/MPLS, it will be MPLS option A / B or C to connect two separate MPLS domain back to back. Since all services are provided from DC and GP / Block are just used as transport, it can be better realized by using MPLS-TP to transport the traffic and simplify the network along with GPON and ERPS to deliver the services. Kindly confirm the choice of technology as MPLS-TP for Block and GP.	No change

387	6.1	Network Architecture	The Network being planned will be using Multiprotocol Label Switching (IP/MPLS) to establish a packet-switched transport network.	48	We understand that MPLS Network is best suited to deliver the services across the network in a ring architecture. In view of the same. It is best suited to deploy Transport profile of MPLS at GP and Block layer which are necessarily in Ring Architecture. The same is in line with DOT recommendations dated 14th Oct.2015 and the network architecture would meet all the services as envisaged by the State. In view of this Please confirm that bidders can offer MPLS Technology (MPLS-TP) so long as the services and SLAs being envisaged by the state are getting met. We request for the clause and all references towards IP/MPLS to be modified as "The Network being planned will be using Multiprotocol Label Switching to establish a packet-switched transport network." Please confirm.	No change
388	6.1	Network Architecture	Point of Presence (PoP) would be created at the APSFL Mandal Headquarters and GP level	48	Kindly advise, if there is a power failure or any other issues in the APSFL POP, how BBNL SLA impact would be calculated. Please clarify.	Power failure beyond the specified backup time will not be counted for SLA calculation
389	5 Page 48	6	The Implementation of the project is to be done by APSFL through a PIA who would be responsible for Planning, Design, Procurement, Installation, End to End Integration, Testing and Commissioning for the following: <ul style="list-style-type: none"> ☐ IP-MPLS Network ☐ Network Operating Centre (NOC) and Disaster Recovery NOC for network monitoring and management. ☐ Data Centre (DC) on a Private Cloud with key network elements such as NMS/EMS/BSS, Access Gateways, Storage/ servers, Network security and other applications 	48	We understand that PIA will not be responsible for charges related to one time electrical connections and recurring electricity bills, fuel expenses, internet bandwidth connection that will be required at NOC and POP's and will not have to factor the same in the price bid. Kindly confirm.	Yes.
390	Section 5 Page 48	6	The Implementation of the project is to be done by APSFL through a PIA who would be responsible for Planning, Design, Procurement, Installation, End to End Integration, Testing and Commissioning for the following: <ul style="list-style-type: none"> · IP-MPLS Network · Network Operating Centre (NOC) and Disaster Recovery NOC for network monitoring and management. · Data Centre (DC) on a Private Cloud with key network elements such as NMS/EMS/BSS, Access Gateways, Storage/ servers, Network security and other applications 	48	We understand that PIA will not be responsible for charges related to one time electrical connections and recurring electricity bills, fuel expenses, internet bandwidth connection that will be required at NOC and GP/Block POP's and so PIA will not have to factor the same in the price bid. Kindly confirm.	Yes.
391	6.1	Network Architecture	"The Network being planned will be using Multiprotocol Label Switching (IP/MPLS) to establish a packet-switched transport network."	49	This requirement can be better met with MPLS-TP which is designed for Packet TRANSPORT network. We recommend the clause to be modified as "The Network being planned will be using Multiprotocol Label Switching to establish a packet-switched transport network." Kindly confirm	No change
392	6.1	Network Architecture	This layer will deploy scalable IP/MPLS Routers and should act as service edge layer for insertion of any kind of services (native L2, L3, MPLS VPN, Multicast etc.). Aggregation Layer will be connected to Mandal Hub/Master Block Router through a nx40G uplink	49	40G long haul interfaces are not deployed widely and have been replaced by 100G. Recommend that the Aggregation layer move to nx100G. Also advise if the nx100G will be over n fiber pairs or a thin DWDM layer is required if fiber core availability is not present. Please clarify.	Please Refer Corrigendum
393	6.1	Network Architecture	"The Network being planned will be using Multiprotocol Label Switching (IP/MPLS) to establish a packet-switched transport network."	49	This requirement can be better met with MPLS-TP which is designed for Packet TRANSPORT network. We recommend the clause to be modified as "The Network being planned will be using Multiprotocol Label Switching to establish a packet-switched transport network." Kindly confirm	No change
394	6	6.2	Testing of traffic from the MPLS at Gram Panchayat to the Block MPLS and further to State NOC	50	Traffic testing can be done only after go live or need traffic generator, if we need to do the traffic testing before go live please add Traffic generator as a SOR line item.	PIA to propose methodology
395	6	6.1.a	End-to-End installation of the equipment along with the civil work that needs to be carried out for installation of Router connectivity according to plan	50	Request please provide details of scope and amount of civil work which needs to be taken up by PIA.	Clause is Self-Explanatory
396	6.1	Network Architecture	Network Diagram	50	Kindly advise on the bandwidth required to connect APSFL & (OR) 3rd party MPLS network. Please clarify if it is required to connect both for redundancy.	APSFL will provide
397	6.1	Pre Aggregation Layer	"This layer will deploy scalable Routers and should act as service edge layer for insertion of any kind of services (native L2, L3, MPLS VPN, Multicast etc.)."	50	"This layer will deploy scalable IP/MPLS Routers and should act as service edge layer for insertion of any kind of services (native L2, L3, MPLS VPN, Multicast etc.)."	Routers to be read as IP/MPLS Routers
398	6.1	Pre-aggregation layer	This layer of the network will be used to connect customers at GPs directly or through extended PoPs of APSFL	50	Kindly advise, if APSFL router at GP and BBNL router at GP pop will be connected back to back. Please confirm.	No change
399	6.1	Pre-aggregation layer	This layer of the network will be used to connect customers at GPs directly or through extended PoPs of APSFL	50	Kindly advise, if end customer is on APSFL network at GP and connecting to BBNL router, how BBNL SLA impact would be calculated. Please clarify.	The SLA calculation is restricted to Bharatnet infrastructure only
400	6.1	Pre-aggregation layer	This layer of the network will be used to connect customers at GPs directly or through extended PoPs of APSFL	50	Kindly advise on SLA as three networks would be inter-connected 1- APSFL pop to connect the customer 2- APSFL router to connect with BBNL router 3- BBNL network will connect to APSFL or 3rd party MPLS network for NOC reachability.	No change
401	6.2	Network Requirements	Resource Reservation based Traffic Engineering should be used to provide the following: Dedicated and predefined path for critical application; Optimized utilization of redundant links	50	To achieve predefined path in IP/MPLS, much of configuration needs to be done and it is all manual. If we require 100s of tunnels, configuration becomes unmanageable. Other option is MPLS-TP, where all pre-defined tunnels are created centrally vis NMS, with much better simplicity and scalability. Optimum utilization of redundant link is also supported with much simplicity in MPLS-TP. Kindly allow MPLS-TP as a recommended solution.	No change
402	6.2	Network Requirements	Network Convergence methods like Fast Reroute and Bidirectional failure detection must be deployed to achieve faster convergence.	50	Network convergence in MPLS-TP works much faster and simpler than in IP/MPLS without adding the complexity of control plane. Kindly allow MPLS-TP as recommended solution.	No change
403	6 Page 50	6.1	The number of patch cords to be supplied with the MPLS router shall be 25% more than the number of ports for each type of IP/MPLS node.	50	Can PIA keep these patch cords split across GP and Block sites as per agreed plan between PIA and SIA. Please allow these patch cords to be used in case of emergency when a connected patch cord become fault. PIA will get this replenished or repair within 48hrs.	Yes
404	6 Page 50	6.1	End-to-End installation of the equipment along with the civil work that needs to be carried out for installation of Router connectivity according to plan	50	Please specify the details of civil work required at GP POPs. This scope is undefined and it is not possible to factor in cost of same.	Civil work only relates to making ground surface suitable enough to put Rack and electrical cabling to the distribution point.
405	6 Page 50	Section 6	The network should enable the successful implementation of various State and Central Government initiatives including but not limited to Residential and Enterprise Broadband, E-education, Public Wi-Fi, e-governance, Smart cities, Smart utilities etc.	50	The clause mentions implementation of Public Wi-Fi but no Wi-Fi requirement is specifically stated in the tender document. How does APSFL intend to provide Wi-Fi to Gram Panchayats. Please clarify	Wi-Fi Infrastructure requirement and B2C BSS IT system required for this is not part of this tender scope.

406	Section 6 Page 50	6.1	End-to-End installation of the equipment along with the civil work that needs to be carried out for installation of Router connectivity according to plan	50	Please specify the details of civil work required at GP POPs. This scope is undefined and it is not possible to factor in cost of same.	Civil work only relates to making ground surface suitable enough to put Rack and electrical cabling to the distribution point.
407	6	6.3.1	The bare shell infrastructure of approx. 10000 Sq. ft. for the same shall be allocated by APSFL for implementation of NOC.	51	Request pls confirm timeline by which bare shell infrastructure will be made available to PIA for implementation of NOC.	Details will be shared on signing of contract
408	6	6.3.1	Network Civil Infrastructure	51	Request pls confirm if bare shell Infrastructure is available/will be made available at the time of PO release.	Clause is Self-Explanatory
409	6	6.3.1	The bare shell infrastructure of approx. 10000 Sq. ft. for the same shall be allocated by APSFL for implementation of NOC.	51	Request pls confirm timeline by which bare shell infrastructure will be made available to PIA for implementation of NOC.	Details will be shared on signing of contract
410	6	6.3.5	Training	51	Clarification required on Training scope and quantum.	Details will be shared on signing of contract
411	6.2	Network Requirements	All nodes must support priority queuing (more than one) for assigning more priority to Voice and Video traffic over non-critical data traffic	51	By default there can be only one PQ for voice also known as LLO. For video traffic, usually it is AF41 / AF31 is used. We understand that there doesn't require any further prioritization queue other than mentioned above. Please clarify.	No change
412	6.2	Network Requirements	"Any Service Any Where"	51	Since all Master Block are not connected directly, to achieve the mentioned service all traffic must need to go to APSFL / 3rd party network, which is not a true "Any service Any where". In such case using MPLS-TP along with GPON and ERPS will provide services in simplified way. Please confirm.	No change
413	6.2	Network Requirements	4G and 5G backhaul should be supported at all nodes.	51	For 4G & 5G backhaul, MPLS-TP is being used by operators globally hence should be allowed. Kindly add MPLS-TP as preferred solution for AP Bharat Net.	No change
414	6.2	Network Requirements	MPLS NNI (Option-1,2 and 3) with telcos and other Service providers for traffic exchange at all nodes should be supported.	51	Usually MPLS NNI are complex and difficult to configure. Also configuring multicast in case of MPLS NNI using option A/B/C are difficult to configure & manage. Kindly add MPLS-TP as preferred solution for AP Bharat Net.	No change
415	6 Page 51	6.3.1	1. The Contractor shall develop & implement Network Operation Centres at Amravati & Tirupati respectively. The bare shell infrastructure of approx. 10000 Sq. ft. for the same shall be allocated by APSFL for implementation of NOC.	51	Please clarify whether 10000sqft is combined space of NOC at Amravati and DR at Tirupati.	At each location
416	Section 6 Scope of Work	6.3 5	Network Civil Infrastructure The Bidder shall perform the following tasks as per APSFL requirement and satisfaction for the areas mentioned in table below: Certification Training	51	Please clarify which type of certification and training will be required under this clause / NOC.	Clause is Self-Explanatory
417	Section 6 Page 51	6.3.1	1. The Contractor shall develop & implement Network Operation Centres at Amravati & Tirupati respectively. The bare shell infrastructure of approx. 10000 Sq. ft. for the same shall be allocated by APSFL for implementation of NOC.	51	Please clarify, for how much carpet area in NOC and DR NOC, Civil and Electrical works are to be done as per details mentioned in Clause 6 of Page 52 of original RFP. Currently it is mentioned as 10000Sqft which is very high in terms of cost involved. RFP does not talk about size meeting room where Video conferencing equipment would be installed. Please clarify if furniture/fixture are to be provided for meeting room.	Details will be shared on signing of contract
418		Data Centre -General Requirements	Designing and Implementing the relevant areas of the NOC keeping in view the following attributes: • Availability • Flexibility • Scalability and • Modularity The bidder must ensure that the design generally meets the following industry standards for: • Cooling standards • IEEE standards for Electrical • NFPA, UL and local fire codes for Safety and security • ISO standards for processes and procedures. The APSFL shall provide approximately 10000 Sft. of bare Infrastructure for implementation of NOC. Wherever additional Infrastructure is required, the bidder shall quote for the same. The NOC shall follow high-efficiency design in equipment type / capacity selection to achieve high overall operational efficiency at optimized expenses. The NOC shall be designed in a modular fashion such that, it is able to scale up with the IT hardware deployment progressively and Technology up-gradation.	52	Request to provide complete layout of the rooms and IT Load details for calculating the load to be considered for cooling	The design for NOC shall be responsibility of bidder
419	6	6.3	This facility involves setting up a NOC & BMS with following requirements: • Should have video wall • Workstations • The N/W points should be brought to Desktop Workstations	53	How many workstations and displays to be considered in DC NOC and DR NOC respectively?	PIA to propose as per SLA requirements
420	6	6.3	General	53	Please share details requirement and quantity of BMS sub line items like CCTV, Smoke detector, Biometric and Proximity Card, Rodent Repellent System etc.	PIA to propose a data center grade solution
421	6 Page 53	6.4	1. Provide 10-seater capacity support centre, initially manned by 9 personnel (3*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the Network Infrastructure defined in the scope of RFP at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.	53	NOC resource will handle following activities 1. Calls from field related Network Issue 2. Calls from customer related to Network & Service Issue 3. Resources handling issues related IT infra (Application, Server, Storage, Firewall etc) 4. Resources handling Service Order, Billing We suggest NOC to have minimum 20 seats. Please confirm.	1. Provide 10-seater capacity support centre, initially manned by 15 personnel (5*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the required infrastructure at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.
422	6 Page 53	6.3 (6)	VIII. Network Operation Centre (NOC) & BMS	53	Please clarify how many workstation are to be provided at DC NOC and at DR NOC. What would be specification of Workstation.	Bidder have to design the Network Operation centre and bidder have to decide number of work stations, apart from Providing 10-seater capacity support centre at DC NOC and DR NOC.
423	6 Page 53	6.3, 6(II)	Precision Aisle Containment system with Dx based cooling units placed adjacent to racks are required for DC Server and Network racks	53	Please clarify how many PAC systems to be considered for Server room.	Server room size would be of 2000sqft. Accordingly PAC shall be provisioned in N+1 redundancy.
424			Precision Aisle Containment system with Dx based cooling units placed adjacent to racks are required for DC Server and Network racks	53	Request to provide complete layout of the rooms and IT Load details for calculating the load to be considered for cooling	The design for NOC shall be responsibility of bidder
425	6 Page 54	6.4	The bidder shall provide ticketing system for call logging in line with the severity levels as per the SLAs. The Help desk shall log user calls related to network infrastructure and assign an incident/ ticket number. Severity shall be assigned to each call as per the SLAs.	54	Please include Helpdesk in Bill of Material and specify the detailed specs	Bidder has to provide Trouble Ticketing and SLA module as part of OSS solution.
426	6 Page 54	6.4	The bidder shall provide ticketing system for call logging in line with the severity levels as per the SLAs. The Help desk shall log user calls related to network infrastructure and assign an incident/ ticket number. Severity shall be assigned to each call as per the SLAs.	54	Provisioning of toll free number and required E1 telecom link for NOC Contact Center is within APSFL scope. Plz confirm	Yes. APSFL will provide same.
427	Section 6 Scope of Work	6.4 10	Operation Support Service NOC Monitoring Continuous monitoring of the physical as well as the IT infrastructure to ensure availability as per agreed SLAs.	54	As per RFP of Fiber - APSFL/BBNL/73/2016 Dated: 22/02/2018, monitoring of OFC will be done from central BBNL NOC via the DCN network provisioned by BSNL. In our case, monitoring will be done in New DC/DR NOC. Then how will APSFL sync these two NOCs with different NOC team? How will APSFL segregate outages due to OFC/Power/others/NE fault?	Clause is Self-Explanatory

428	Section 6 Scope of Work	6.4 10	Operation Support Service NOC Work Segregation Continuous monitoring of the physical as well as the IT infrastructure to ensure availability as per agreed SLAs.	54	How will APSFL segregate the responsibility in NOC and field between Active O&M service provide and Fiber O&M service provider ? Please Clarify.	Clause is Self-Explanatory
429	7 Page 55	4	Percentage of non-compliance to approved network uptime for each PoPs for reasons other than route failure due to optical fiber network	55	Achieving 98% uptime on Overhead network even with ring topology is difficult. Please amend uptime requirement to 95%.	No change
430	7 Page 55	7.1 (i)	PIA shall follow APSFL in house Trouble Ticket Module for capturing the fault status which will in turn be used for Service Level Agreement (SLA) calculation through the SLA module.	55	Please clarify if Trouble Ticketing and SLA module would be provided by bidder. If yes, please include same in commercial SOR.	Bidder has to provide Trouble Ticketing and SLA module as part of OSS solution.
431	7 Page 55	7.1.1	APSFL will provide the requisite licenses of a monitoring tool for automatic monitoring of all SLAs.	55	Please clarify whether Bidder has to provide SLA management tool. If yes, please include same in commercial SOR.	Bidder has to provide Trouble Ticketing and SLA module as part of OSS solution.
432	7 Page 55	7.1.1 (3)	Percentage of non-compliance to approved network changes as per process	55	Please clarify that for KPI value of 5 & above, maximum penalty would be Rs 1000.	No change
433	7 Page 55	7.1.1 (5)	This SLA remains in force for any expansion (i.e. add, delete, change) of the network. It is the responsibility of the maintenance and management team to ensure all proposed expansion complies with this SLA before undertaking such expansion Failure to meet any of the criteria (other Service Levels A) shall be considered a significant SLA violation with penalties of 10% of the invoice value for every day of violation across the network. The maximum penalty for any/ all the above violations will be 10% of the contract value.	55	Please explain what is meaning of Service Levels A	Service level agreement
434	7.1.1	7.1.1 Penalties	4. Percentage of non-compliance to approved network uptime for each PoPs for reasons other than route failure due to optical fiber network	55	Kindly confirm the formula for Network uptime calculation and other measurements	As per the clause mentioned in the RFP
435	7.1.1	7.1.1 Penalties	4. Percentage of non-compliance to approved network uptime for each PoPs for reasons other than route failure due to optical fiber network	55	Please inform the mechanism for monitoring Optical fiber network. Also who will be responsible for interfacing and coordination with the agency monitoring and maintaining the fiber network.	Monitoring is done through the management system and PIA of Electronics will be responsible for interfacing and coordination
436	7.1.1.1	SLA exclusions	Penalty should be excluded for restoration for damage occurs due to force majeure, natural calamities, curfew or no work due to government order.	55	Since theft or vandalism might occur and is beyond the control of the PIA, SLA penalty must not be levied on the PIA. Suggested clause: Penalty should be excluded for restoration for damage occurs due to force majeure, natural calamities, curfew or no work due to government order. Theft or vandalism cases shall also be excluded from SLA penalty.	Agreed
437	b	3. Pre-Implementation SLAs	7.1 Assumptions PIA shall follow APSFL in house Trouble Ticket Module for capturing the fault status which will in turn be used for Service Level Agreement (SLA) calculation through the SLA module.	55	Please provide details on integration capabilities of Helpdesk Solution. Bidder needs to know integration methods available to consider integration scope	The design for NOC shall be responsibility of bidder
438	b	3. Pre-Implementation SLAs	7.1 Assumptions PIA shall follow APSFL in house Trouble Ticket Module for capturing the fault status which will in turn be used for Service Level Agreement (SLA) calculation through the SLA module.	55	Is there a need to propose ITIL based helpdesk solution or the existing solutio will be used?	The design for NOC shall be responsibility of bidder
439	Section 7	4	Penalties during O&M Period	55	It is very high and capping at 10% of the Contract value is again very high , It should be capped at 10% of the annual O&M Payout ; Also in page 148 again same clause is repeated and this time Capping is missing ;	No change
440	Section 7	4	Penalties during O&M Period	55	It is very high and capping at 10% of the Contract value is again very high , It should be capped at 10% of the annual O&M Payout ; Also in page 148 again same clause is repeated and this time Capping is missing ;	No change
441	Section 7 Service Level Agreement	7.1	Service Level Agreement Assumptions SLA violations and penalties arising due to site conditions like continuous power failures or any other conditions beyond control of PIA shall be excluded from SLA and penalty calculations.	55	In case of continuous power failures, if Battery is being discharged fully and then if power comes for some time (assume for an hour) and again fails, then in this scenario, battery will not be fully charged, hence no full 4hrs back-up. In these type of scenarios, all outages should be excluded from overall down time.	No change
442	Section 7 Service Level Agreement	7.11	Penalties Percentage of non-compliance to approved network changes as per process	55	No Definition and understanding regarding KPI Value. KPI Value-----Penalty 2-----Nil 3-----INR 2000 4-----Additional INR 500 5 and above -----Additional INR 1000 Please clarify.	No change
443	Section 7 Service Level Agreement	7.11	Penalties Percentage of non-compliance to approved network changes as per process	55	No Definition and understanding regarding KPI Value. KPI Value-----Penalty 2-----Nil 3-----INR 2000 4-----Additional INR 500 5 and above -----Additional INR 1000 Please clarify.	No change
444	Section 7 Service Level Agreement	7.1 i	Assumptions PIA shall follow APSFL in house Trouble Ticket Module for capturing the fault status which will in turn be used for Service Level Agreement (SLA) calculation through the SLA module.	55	1. If PIA will use APSFL's inhouse trouble ticket tool then who will manage this tool ? APSFL or third party or PIA ? 2. In case of APSFL's inhouse tool, how will we calculate and validate SLA and penalty ? Till it is not handed over/resolved then till that time, whether we will calculate SLA and Penalty manually? 3. If APSFL's inhouse tool will be used then should PIA require to cater new ticketing tool ? Please clarify all ?	Clause is Self-Explanatory
445	Section 7 Service Level Agreement	7.1.1	Penalties Uptime Calculation	55	How will APSFL calculate uptime/network Please Clarify with example.	No change
446	Section 7 Service Level Agreement	7.1.1 4	Penalties Percentage of non-compliance to approved network uptime for each PoPs for reasons other than route failure due to optical fiber network	55	In addition to this clause, Spur GP network uptime should as per standards ==> >95% and subsequently other levels of penalty. Value on monthly basis Penalty Upto 95% ----- Nil Below 93% -----INR 10000 per instance Below 92% -----INR 25000 per instance 90% and Below -----INR 50000 per instance	Clause is Self-Explanatory
447	Section 7 Service Level Agreement	7.1.1 5	Other SLA Provisions This SLA remains in force for any expansion (i.e. add, delete, change) of the network.	55	All the expansion will be handle through Change Management Process	Clause is Self-Explanatory
448	Section 7 Service Level Agreement	7.1.1 5	Other SLA Provisions The maximum penalty for any/ all the above violations will be 10% of the contract value.	55	Maximum Penalty shall be 5% of Quarterly O&M Invoice. This should be inclusive of manpower & SLA clauses.	Clause is Self-Explanatory
449	Section 7 Service Level Agreement	7.1.1 5	Other SLA Provisions The maximum penalty for any/ all the above violations will be 10% of the contract value.	55	Maximum Penalty shall be 5% of Quarterly O&M Invoice. This should be inclusive of manpower & SLA clauses.	Clause is Self-Explanatory
450	Section 7 Service Level Agreement	7.1.1 Note 2	Penalties All the operational SLAs are measured monthly basis. The penalties will be levied monthly and will be deducted from the payment due to the bidder.	55	As payment is being released quarterly basis so all the operational SLAs should be measured on quarterly basis. Please clarify uptime criteria with any example.	Clause is Self-Explanatory
451	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Thefts & Vandalism should also be part of exclusions.	Agreed
452	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Period when access to GP & Taluka not allowed due to any reasons should also be excluded.	Clause is Self-Explanatory
453	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Any theft of GP equipment or damage due to vandalism should also be excluded from SLA	Clause is Self-Explanatory
454	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	As NOC is not likely to be fully functional, it is suggested that SLA, Penalty & Mandatory manpower clauses shall not be applicable during this time. O&M during this stage should be on best effort basis.	No change

455	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	In any case, any outage of Active equipment being caused due to fiber cut then such outage should exclude from Active equipment's outage.	Agreed
456	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Outage of active equipments due to Infra issue at APFSL site / BSNL Exchanges should be excluded from overall outages.	No change
457	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Period when access to GP & Taluka not allowed due to any reasons should also be excluded.	Clause is Self-Explanatory
458	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Any theft of GP equipment or damage due to vandalism should also be excluded from SLA	Agreed
459	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	In any case, any outage of Active equipment being caused due to fiber cut then such outage should exclude from Active equipment's outage.	Agreed
460	Section 7 Service Level Agreement	7.1.1.1	SLA Exclusions	55	Outage of active equipments due to Infra issue at APFSL site / BSNL Exchanges should be excluded from overall outages.	No change
461	7	7.1.2	Liquidated Damages	56	Please confirm that APFSL will issue valid GST invoice for liquidated damages deducted.	Yes
462	7.1.2	Liquidated Damages	Penalties shall be capped to maximum of 10% of total cost of Project (excluding O&M cost) Value. Beyond 10% the Purchaser has the right to terminate the contract or a portion or part of the work thereof. The purchaser shall give 30 days' notice to the PIA of its intention to terminate the Contract and shall so terminate the Contract unless the Bidder initiates remedial action acceptable to the Purchaser during the 30 days' notice period. MSA	56	*1. The three definitions of LD, percentage of LD to be levied and capping are contradictory. Kindly confirm the correct definition. 2. Any delay not attributable to PIA will be to APFSL's scope and time extension with additional cost shall be granted to PIA in execution schedule at actuals. The Liquidated Damage / penalties (of any kind / nature will not be applicable in such cases.)	The maximum capping on LD shall be 12% of the project cost
463	Section 3	7.1.2.Liquidated Damages	Penalties shall be capped to maximum of 10% of total cost of Project (excluding O&M cost) Value. Beyond 10% the Purchaser has the right to terminate the contract or a portion or part of the work thereof	56	On Page 29, LD of 0.5% and 0.7% is mentioned for 13 weeks each and extension for 26 weeks is possible, but on page 56 LD has been capped at 10%. Please clarify.	The maximum capping on LD shall be 12% of the project cost
464	8 Page 57	8.1	Supply of Components 6. To provide Earthing at each as per standard practices	57	Quantity of Earthing Connection requirement is mentioned as 13478. Since count of number of GP and Block together is (12746+62+608=13416). Please clarify how remaining Qty of Earthing connecting is to be used.	Please refer corrigendum
465	8 Page 58	9	Testing and Quality Assurance Process (v) Site Images shall be taken by PIA through Monitoring mobile application during acceptance testing	58	Please clarify who will develop and provide Monitoring Mobile Application. If PIA has to provide same then suggest to include number of API integration from external systems like Project Mgmt tool, NMS, BSS. We suggest 20 API integrations. This will also help APFSL in enhancing Mobile Application in future using per API integration cost.	PIA has to develop Monitoring Mobile Application. Number of integration would be limited to 20 API from Project Mgmt/NMS/BSS system.
466	Section 8 Page 58	9	Testing and Quality Assurance Process (v) Site Images shall be taken by PIA through Monitoring mobile application during acceptance testing	58	Please clarify who will develop and provide Monitoring Mobile Application. If PIA has to provide same then suggest to include number of API integration from external systems like Project Mgmt tool, NMS, BSS. We suggest 20 API integrations. This will also help APFSL in enhancing Mobile Application in future using per API integration cost.	PIA has to develop Monitoring Mobile Application. Number of integration would be limited to 20 API from Project Mgmt/NMS/BSS system.
467	Section 9 Testing and Quality Assurance Process	9a	Measurement Book (MB)	58	Do PIA need to maintain Measurement Book in O&M phase ? As per our understanding, it is not required.	Yes bidder has to maintain MB
468	Billing	corregendum 2	Billing Calculation	61	It is understood that APFSL will be responsible to generate , print and dispatch the bills/invoices periodically to end users/customers	Yes
469	Account receivables	corregendum 2	Account receivables	63	Its understood that APFSL will be responsible to collect Cash/DD/Cheque from End Users	Yes
470	Integration of Customer Web portal for billing	corregendum 2	Integration of Customer Web portal for billing	63	It is understood that APFSL will provide Customer Web Portal and is not part of this project . More details required for integration	yes
471	2. Instructions to Bidder	10.9 Detailed Proposed Solution	Training Plan	64	Training Mandays, batches, Duration are not mentioned in RFP. Need Clarity for the same.	PIA should submit a detailed training plan that suits the requirements
472	2. Instructions to Bidder	10.9 Detailed Proposed Solution	Training Plan	64	Training Mandays, batches, Duration are not mentioned in RFP. Need Clarity for the same.	PIA should submit a detailed training plan that suits the requirements
473	Payment gateway	corregendum 2	Payment gateway	64	it is understood that Payment Gateway will be provided by APFSL and PIA will be responsible to Intgrate with Billing software	Yes
474	Section 10 Formats	10.11	Manpower Plan 1 Senior Solution Architect 2 Project Manager 3 Solution Architect 4 Project Coordinator 5 Reports Manager 6 Field Engineers 7 Field Technicians 8 Logistics Manager	64	Request you to remove mandatory manpower clause and remove this part. PIA is already bound by SLA & Penalties.	No change
475	Section 10 Formats	10.11	Manpower Plan 1 Senior Solution Architect 2 Project Manager 3 Solution Architect 4 Project Coordinator 5 Reports Manager 6 Field Engineers 7 Field Technicians 8 Logistics Manager	64	Request you to remove mandatory manpower clause and remove this part. PIA is already bound by SLA & Penalties.	No change
476	Section 10 Formats	10.11 3	Manpower Plan Solution Architect	64	In O&M phase, do we need Solution Architect ? In telecom standards, only requirement basis, Solution Architect will be required.	Yes
477	Section 10 Formats	10.11 3	Manpower Plan Solution Architect	64	In O&M phase, do we need Solution Architect ? In telecom standards, only requirement basis, Solution Architect will be required. Please remove this requirement.	Yes
478	10. Formats	10.18 Manufacturers' Authorization Form	We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	67	We request to change the clause as suggested below in line with the industry practice globally. We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 7 years from the date of bidding.	No change
479	10. Formats	10.18 Manufacturers' Authorization Form	We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	67	We request to change the clause as suggested below in line with the industry practice globally. We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 7 years from the date of bidding.	No change
480	Section 10-Formats	10.18 Manufacturers Authorization Form	In MAF Format , last line it is mentioned that " the support for such offered product /s will be available for minimum 10 Years from the date of bidding"	67	We understand that project is for 7 Years (% years Warranty + 2 Years AMC) . Thus request you to please change the no of years support to 7 years instead of 10 years in MAF format.	No Change
481	Section 10-Formats	10.18 Manufacturers Authorization Form	In MAF Format , last line it is mentioned that " the support for such offered product /s will be available for minimum 10 Years from the date of bidding"	67	We understand that project is for 7 Years (% years Warranty + 2 Years AMC) . Thus request you to please change the no of years support to 7 years instead of 10 years in MAF format.	No Change
482	11 Page 73	11.1.1	10. Router should be Populated with 4 x 100 G CSFP 80 Kms, 40 x 10 G SFP+ 40 Kms and 24 x 1 G SFP 40 kms Populated from DAY 1	73	Master Block Router has been asked with 80Km SFP to connect two Master Block. In case distance between two Master Block is more than 80Km, whether APFSL would supply the repeater. In case repeater is to be supplied by bidder, please add the requirement in SOR.	Please Refer Corrigendum

483	11.1.1	Annexure A	<p>The Router should support the following programmability features:</p> <ul style="list-style-type: none"> • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models 	73	MPLS-TP is completely driven from NMS and already follow similarly architecture of centralise provisioning. In such case, ignoring MPLS-TP and deploying IP/MPLS which requires all additional requirements of NETCONF and YANG as from a different system again needs to integrate with IP/MPLS and do plenty of testing if it works fine. Our recommendation is to choose a technology which already supports centralise provisioning and troubleshooting. Kindly conform the addition of MPLS-TP as preferred technology for AP network.	No change
484	11.1.1	Annexure A	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labeled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 128 MPLS VPN Instances, 2048 EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN.	73	With MPLS-TP, all this complex setup is not required as all provisioning is done centrally and via NMS. Since MPLS-TP support sub-second convergence < 50 ms, without using any extension of routing protocols, it is recommended technology to be used in AP Bharat Net phase II. Kindly confirm.	No change
485	11.1.1	Annexure A	Page # 73, The Proposed Router should have capability to add BNG features to support 256K subscribers with additional cards in future.	73	RFP is not clear on how Internet exit will be provided weather it will be centralise Internet and using PWs, L2 tunnel will be created from access router at GP to core or it will have direct exit from each Master block. Since Core router is with very high configuration, in our understanding it is terminating all L2 PW's from access router at GP. In any case, MPLS-TP is much better design as also recommended in DOT reports. Kindly allow MPLS-TP as preferred technology.	No change
486	11.1.1	Annexure A	The Proposed router should have capability to add CG-NAT features with at least 20 million translations with additional cards in future	73	RFP is not clear on how Internet exit will be provided weather it will be centralise Internet and using PWs, L2 tunnel will be created from access router at GP to core or it will have direct exit from each Master block. Since Core router is with very high configuration, in our understanding it is terminating all L2 PW's from access router at GP. In any case, MPLS-TP is much better design as also recommended in DOT reports. Kindly allow MPLS-TP as preferred technology.	No change
487	Master Block/Mandal Hub Node /11.1.1	1	Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing	73	Core/High capacity Routers are always placed in controlled environment of 5 to max 40" to get maximum optimize efficiency. Therefore we request you to kindly change the clause to the following: "Proposed router should support the following environmental condition: Temperature: 5 to 40" operating temperature and environment Relative humidity: 5 to 85% non-condensing"	No change, Clause is clear
488	Master Block/Mandal Hub Node /11.1.1	7	Proposed router should support switching capacity of at least 3 Tbps. full duplex	73	The number of interface asked at day1 in the RFP are not more than 1Tbps(4 x 100 G + 40 x 10 G + 24 x 1 G SFP) in total. Considering 100% scalability for future expansion will make it to 2Tbps. Therefore we request to kindly modify the clause to the following: "Proposed router should support switching capacity of at least 2 Tbps. full duplex"	Please Refer Corrigendum
489	Master Block/Mandal Hub Node /11.1.1	10	Router should be Populated with 4 x 100 G CSFP 80 Kms, 40 x 10 G SFP+ 40 Kms and 24 x 1 G SFP 40 kms Populated from DAY 1	73	Every OEM has different optical modules based on the standard and distance. These interface have 100Gbps interface capacity and are interoperable with each other. All of optical module meets the functional requirement of 100G interface fully. We request to modify the clause as following: "Router should be Populated with 4 x 100 G CSFP/CFP/CFP2/QSFP28 or equivalent 80 Kms, 40 x 10 G SFP+ 40 Kms and 24 x 1 G SFP 40 kms Populated from DAY 1"	Please Refer Corrigendum
490	Master Block/Mandal Hub Node /11.1.1	20	Proposed router should be at least CE 2.0 Certified on all interfaces	73	OEMs keep on adding new platforms to their portfolio and getting CE2.0 is a time consuming process. There is a requirement in the RFP for long term support from the OEMs for the proposed equipment. To meet this requirement, All OEMs would prefer to quote latest products. Moreover, this clause is limiting OEMs' participation in the bid. We request to change the clause to the following: "Proposed router should be at least CE 2.0 compliant on all interfaces"	Please Refer Corrigendum
491	1	11.1.2 - Block/ IP MPLS Node	Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing	74	Proposed router should support the following environmental condition: Temperature: 0 to 65 operating temperature and environment Relative humidity: 5 to 85% non-condensing	Please Refer Corrigendum
492	6	11.1.2 - Block/ IP MPLS Node	The proposed router should support Min. 20 x 10G SFP+, 20 x 1G SFP. and 2 X 100 G upgradable to 4 x 100 G	74	The proposed router should support Min. 20 x 10G SFP+, 20 x 1G SFP. and 2 X 100 G also should support 4 x 25 Gig interfaces	Please Refer Corrigendum
493	11 Page 74	11.1.2	9. Router should be Populated with 2 x 100 G 40 Kms, 20 x 10 G SFP+ 40 Kms and 20 x 1 G SFP 10 kms Populated from DAY 1	74	Block Router has been asked with 40Km SFP to connect two Blocks. In case distance between two Block is more than 40Km, whether APFSL would supply the repeater. In case repeater is to be supplied by bidder, please add the requirement in SOR.	Please Refer Corrigendum
494	11. Annexures	11.1.1 Master Block/Mandal Hub Node Pt.32	<p>The Router should support the following programmability features:</p> <ul style="list-style-type: none"> • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models 	74	The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install Suggest chaign this clause as The solution should support the network configuration protocol (NETCONF) that provides mechanisms to manage the Network devices	Please Refer Corrigendum
495	11. Annexures	11.1.1 Master Block/Mandal Hub Node Pt.39	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring	74	Suggest changing clause as Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /GBP /GRPC / NETCONF for router management and monitoring	Please Refer Corrigendum
496	11. Annexures	11.1.1 Master Block/Mandal Hub Node Pt.41	There should be mechanism to measure delay, jitter and round trip delay, packet loss and frame loss end-to-end for a given flow. The system should synchronize the counters on both ends.	74	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum
497	11. Annexures	11.1.1 Master Block/Mandal Hub Node Pt.42	There should be mechanism to fetch delay, jitter and round trip delay, packet loss and frame loss for MOS, uni-cast & multicast.	74	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum

498	11.1.1	Annexure A	The Router should support Zero touch provisioning and auto configuration through an orchestration solution	74	MPLS-TP is completely driven from NMS and already follow similarly architecture of centralise provisioning. In such case, ignoring MPLS-TP and deploying IP/MPLS which requires all additional requirements of NETCONF and YANG as from a different system again needs to integrate with IP/MPLS and do plenty of testing if it works fine. Our recommendation is to choose a technology which already supports centralise provisioning and troubleshooting. Kindly conform the addition of MPLS-TP as preferred technology for AP network.	Please Refer Corrigendum
499	2.1.2 - Block/ IP MPLS Node	1	Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing	74	Request you to change the operating temperature from 0 to 70 degrees	Please refer Corrigendum
500	Block/Mandal IP/MPLS Node/11.1.2	7	Proposed router should support switching capacity of at least 900Gbps Full Duplex	74	Total number of interfaces asked in the RFP have a cumulative throughput requirement of 420 Gbps (2 x 100 G + 20 x 10 G + 20 x 1 G). Considering 100% future scalability will make therequiremt of approx. 800Gbps throughput of the router. We request you to kindly modify the clause as "Proposed router should support switching capacity of 800Gbps Full Duplex"	Please Refer Corrigendum
501	Block/Mandal IP/MPLS Node/11.1.2	12	The proposed router should support the following: a. 256,000 MAC Addresses b. 250000 IPv4 unicast routes c. 120000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack	74	16000 multicast routes scale requirement is on higher side. It is observed that even in a large Service Provider network, Not more than 1000-1500 multicast routes are required. Asking for such a large number of multicast routes will push the OEMs to quote a bigger router and will escalate the overall cost of the project. Therefore we request to change this clause to the following: "The proposed router should support the following: a. 250,000 MAC Addresses b. 250000 IPv4 unicast routes c. 120000 IPv6 routes d. 4,000 multicast routes e. 5 labels in label stack"	Please Refer Corrigendum
502	Block/Mandal IP/MPLS Node/11.1.2	19	Proposed router should be at least CE 2.0 Certified	74	CE2.0 is a time consuming process, RFP asks for long duration support therefore OEM would like to quote latest products. Our request is if router is CE2.0 compliant , OEM should be allowed to offer CE 2.0 compliant products. Else sufficient time to be given to OEM for certification for offered products and we therefore request OEM to be allowed to submit certificate at the time of acceptance of project. Thus Kindly Modify the clause as "Proposed router should be at least CE 2.0 compliant"	Please Refer Corrigendum
503	Block/Mandal IP/MPLS Node/11.1.2	32	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models	74	YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML. In view of the above, we request APfiber to Modify the clause as "The Router should support the following programmability features: • The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration • The router should support Openconfig/ IETF based YANG models/SNMP/RESTAPI/XML • The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF/YANG models"	Please Refer Corrigendum
504	5	11.1.3 - GP IP/MPLS Node	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 40G) + 16 x (SFP) + 8 x (RJ-45)	75	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+) expandable to support 6 x 10GE (SFP+) + 12 x (SFP) + 8 x (RJ-45) from day 1.	Please Refer Corrigendum
505	6	11.1.3 - GP IP/MPLS Node	Proposed router should support switching capacity of at least 200 Gbps full duplex	75	Proposed router should support switching capacity of at least 64 Gbps full duplex	Please Refer Corrigendum
506	7	11.1.3 - GP IP/MPLS Node	All ports in the proposed router's total forwarding performance should be 200 MPPS or more	75	All ports in the proposed router's total forwarding performance should be 90 MPPS or more	Please Refer Corrigendum
507	11 Page 75	11.1.3 (5)	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 40G) + 16 x (SFP) + 8 x (RJ-45)	75	Please confirm, 16xSFP means 16 1G capacity SFP here	Please Refer Corrigendum
508	11. Annexures	11.1.2 Block/Mandal IP/MPLS Node Pt.36	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring	75	Suggest changing clause as Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /GBP /GRPC / NETCONF for router management and monitoring	Please Refer Corrigendum
509	11. Annexures	11.1.2 Block/Mandal IP/MPLS Node Pt.38	There should be mechanism to measure delay, jitter and round trip delay, packet loss and frame loss end-to-end for a given flow. The system should synchronize the counters on both ends.	75	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum
510	11. Annexures	11.1.2 Block/Mandal IP/MPLS Node Pt.39	There should be mechanism to fetch delay, jitter and round trip delay, packet loss and frame loss for MOS, uni-cast & multicast.	75	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum
511	11. Annexures	11.1.2 Block/Mandal IP/MPLS NodePt.32	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models	75	The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install Suggest chaing this clause as The solution should support the network configuration protocol (NETCONF) that provides mechanisms to manage the Network devices	Please Refer Corrigendum
512	11. Annexures	11.1.3 GP IP/MPLS Node Pt.5	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 40G) + 16 x (SFP) + 8 x (RJ-45)	75	Support for 10 G seems suffice to meet future traffic requirement, also mandal nodes doesn't ask for 40G interfaces , hence request to remove 40 G from the clause and change the clause as The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+) , 16 x (SFP) + 8 x (RJ-45)	Please Refer Corrigendum
513	11. Annexures	11.1.3 GP IP/MPLS Node Pt.6	Proposed router should support switching capacity of at least 200 Gbps full duplex	75	Switching capacity on a GP router seems high considering its deployment position and scale of requirement in the network & in absence of 40G/100G interfaces .so suggest changing the clause as Proposed router should support switching capacity of at least 120 Gbps full duplex so that OEM can come up with best techno commercial solutions ,	Please Refer Corrigendum
514	11. Annexures	11.1.3 GP IP/MPLS Node Pt.7	All ports in the proposed router's total forwarding performance should be 200 MPPS or more	75	Forwarding performance on a GP router seems high considering its deployment position and scale of requirement in the network so suggest changing the clause as Proposed router should support switching capacity of at least 95 mpps so that OEM can come up with best techno commercial solutions	Please Refer Corrigendum

515	Block/Mandal IP/MPLS Node/11.1.2	20	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 5 level HQOS	75	In Master Block 4 level HQOS has been asked which has to be function as BNG also, where as in Block Node 5 level HQOS has been requested which is to be function as Transport router only. This seems to be Typo error as 2 level is sufficient . Kindly modified the clause as "Proposed router should support QoS mechanism for end-to-end bandwidth and at least 2 level HQOS"	Please Refer Corrigendum
516	GP IP/MPLS Node/11.1.3	5	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 40G) + 16 x (SFP) + 8 x (RJ-45)	75	As per industry standard 10G port is not upgradable to 40G. Moreover 40G is mainly used for data center connectivity and not for transport network. We request to kindly modify the clause as following: "The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+/XFP) + 20 x 1G (SFP) + 4 x 1G (RJ-45)"	Please Refer Corrigendum
517	GP IP/MPLS Node/11.1.3	6	Proposed router should support switching capacity of at least 200 Gbps full duplex	75	The interfaces asked in the router are 4x10G+24GE. This makes the throughput requirement of 64Gbps. Since this is a fixed configuration router and there won't be any interface addition to the router in future, We request to change the clause as following: Proposed router should support switching capacity of at least 64 Gbps full duplex	Please Refer Corrigendum
518	GP IP/MPLS Node/11.1.3	6	All ports in the proposed routers total forwarding performance should be 200 MPPS or more	75	The total throughput required is 64 Gbps and to calculate the linerate forwarding capacity of the router in Mpps. Following formula is used: Throughput(In Gbps) x 1.488 = Mpps We request to change the Mpps requirement to approx. 96 Mpps or more.	Please Refer Corrigendum
519	GP IP/MPLS Node/11.1.3	32	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models	75	YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML. In view of the above, we request APfiber to Modify the clause as "The Router should support the following programmability features: • The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration • The router should support Openconfig/ IETF based YANG models/SNMP/RESTAPI/XML • The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF/YANG models"	Please Refer Corrigendum
520		11.1.3	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 40G) + 16 x (SFP) + 8 x (RJ-45)	75	We understand that 4x10G upgradability to 40G is required. Additional 40G ports are required in the router to realize this functionality as SFP+ cannot be upgraded to 40G with the same reach. Please clarify	Please Refer Corrigendum
521			"support switching capacity of at least 200 Gbps full duplex"	75	The switching capacity required is not in line with the capacity of interfaces and uplinks. Please clarify	Please Refer Corrigendum
522	10	11.1.3 - GP IP/MPLS Node	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack	76	The proposed router should support at least the following: a. 16K MAC Addresses b. 20K IPv4 unicast routes c. 4K IPv6 routes d. 2K multicast routes e. 500 MPLS labels f. 4 labels in label stack	Please Refer Corrigendum
523	11. Annexures	11.1.3 GP IP/MPLS Node Pt.11	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 2000EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE	76	200 MPLS instance seems a high number on a GP router and shall not be required and shall be remain underutilise so suggest to reduce the number and change the clause as a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 120 MPLS VPN instances, 2000EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE	Please Refer Corrigendum
524	11. Annexures	11.1.3 GP IP/MPLS Node Pt.28	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models	76	• The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install Suggest changing this clause as The solution should support the network configuration protocol (NETCONF) that provides mechanisms to manage the Network devices	Please Refer Corrigendum
525	11. Annexures	11.1.3 GP IP/MPLS Node Pt.36	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring	76	Suggest changing clause as Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /GBP /GRPC / NETCONF for router management and monitoring	Please Refer Corrigendum
526	11. Annexures	11.1.3 GP IP/MPLS Node Pt.38	There should be mechanism to measure delay, jitter and round-trip delay, packet loss and frame loss end-to-end for a given flow. The system should synchronize the counters on both ends.	76	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum
527	11. Annexures	11.1.3 GP IP/MPLS Node Pt.39	There should be mechanism to fetch delay, jitter and round-trip delay, packet loss and frame loss for MOS, uni-cast & multicast.	76	Y.1731 is highly reliable mechanism for OAM for IP MPLS based networks and widely accepted in the industry so suggest changing clause as There should be Y.1731 or equivalent mechanism to support service measurement parameters	Please Refer Corrigendum
528	GP IP/MPLS Node/11.1.3	10	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack	76	The scaling numbers asked for GP IP/MPLS Node are very high based on requirement. Asked scale would push all the OEMs to quote bigger routers at GP IP/MPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values as per following recommendations - "The proposed router should support at least the following: a.30K MAC Addresses b. 15K IPv4 unicast routes c. 6K IPv6 routes d. 1K multicast routes e. 4,000 MPLS labels f. 3 labels in label stack "	No change
529	GP IP/MPLS Node/11.1.3	11	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 2000EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE	76	The EoMPLS scaling numbers asked for GP IP/MPLS Node are very high for such a small routers. Asked scale would push all the OEMs to quote bigger routers at GP IP/MPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values based on the actual requirements and modify the clause as "a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 512 EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE"	No change

530	GP IPMPLS Node/11.1.3	16	Proposed router should be at least CE 2.0 certified or OEM undertaking should be given to assure box would be certified in 6 months	76	CE2.0 is a time consuming process, RFP asks for long duration support therefore OEM would like to quote latest products. Our request is if router is CE2.0 compliant, OEM should be allowed to offer CE 2.0 compliant products. Else sufficient time to be given to OEM for certification for offered products and we therefore request OEM to be allowed to submit certificate at the time of acceptance of project. Thus Kindly Modify the clause as "Proposed router should be at least CE 2.0 compliant"	Please Refer Corrigendum
531	GP IPMPLS Node/11.1.3	28	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconfig or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models	76	YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML. In view of the above, we request APfiber to Modify the clause as "The Router should support the following programmability features: • The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration • The router should support Openconfig/IETF based YANG models/SNMP/RESTAPI/XML • The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF/YANG models"	Please Refer Corrigendum
532	11	11.1.4	General	77	Kindly explain about the backup/archival mechanism of data. After how many months the data/logs are to be moved from online storage to offline storage and for how many months the logs/data should be archived?	PIA to propose the solution
533	11		There should not be any silos of any servers and all infrastructure should be virtualized to make effective utilization of the resources by making use of the industry standard private cloud solutions such as Openstack (or) Azure Stack or any other similar private cloud platform.	77	By private cloud we understand it means virtual private cloud. Kindly confirm	On premises Private cloud
534	11 Page 77	11.1.4	b. All Application Server Instances would be deployed in N+m cluster of Server or Virtual Machines where N is number of Nodes designed with capacity to handle complete Load for next 10 years of Operation. Value of m would be N/4 (rounded up).	77	Since project scope is only for 7 years of operation, please amend clause to "b. All Application Server Instances would be deployed in N+m cluster of Server or Virtual Machines where N is number of Nodes designed with capacity to handle complete Load for next 7 years of Operation. Value of m would be N/4 (rounded up)."	Please Refer Corrigendum
535	11 Page 77 to 82	11.1.5 & 11.1.6	ems, NMS	77	ems, NMS and Portal deployment would require Server Load Balancer for high availability and scalability. Kindly add Virtual Server Load Balancer deployment in 1+1 configuration in DC and DR.	PIA shall provide Server Load Balancer in 1+1 configuration for managing Application high availability and scalability.
536	11 Page 77 to 82	11.1.5 & 11.1.6	ems, NMS	77	For large network having approx 14000 Network elements and also in view of DOT's ISP licensing T&C, it is important to implement secure Network Operations where every activity in network should be auditable and traceable to WHO, WHEN, WHERE, HOW. It is therefore important to implement Network User Identity and Access & Audit Management where each of every commands is logged with session recording by enabling access to all Network & IT systems through single sign-on screen. It is recommended to add this in SOR for 14000 devices.	PIA shall provide Network Privileged User Identity Management, Access Control and Access Audit solution with record and replay capability of commands executed in Network. Network Access Log shall be kept online for 2 months and stored offline for another 10months.
537	11 Page 77 to 82	11.1.5 & 11.1.6	ems, NMS	77	APSF network will be used by B2B and Enterprise Customers. Customers would ask for dashboard showing Service KPI view, Network link performance & bandwidth utilization graphs, Speed Test and other performance Reports similar to other B2B operators like ServiceNow, Airtel etc provides. This can be sized for 25 Users. APSF would also need other network tools like BGL Looking glass and Netflow Performance Analyzer for Network Issue diagnosis and traffic path optimization. This can be sized for one district at a time having max 1500 routers. Suggest to include these in commercial SOR.	PIA shall provide Speed Test feature on Web Portal for B2B Users. PIA shall provide diagnostic tool like BGL Looking glass and Netflow Performance Analyzer for diagnosing traffic for all routers under a Block. Tool shall support configuration of 10 such Blocks at same time.
538	11.1.5	1	The proposed Management System must manage all the various types of devices in the network including all the network and server infrastructure.	77	Other than IPMPLS switches/routers, EMS, what else needs to be managed	Please Refer Corrigendum
539	11.1.5	1	The proposed Management System must manage all the various types of devices in the network including all the network and server infrastructure.	77	What is the quantity of device types expected to be managed and is there yearwise distribution expected. Please give the yearwise distribution and quantities of devices and type and version of devices	There should be no restriction on software licensing. Hardware should be sized for 50000 devices
540	11.1.5	3	In case more than one instance of EMS is required to manage the device in scope, then a manager of manager should also be provided for a consolidated view for administration and operation of the network	77	Incase there is only 1 Ems to be managed, is NMS still needed to manage the network? What is the functionality expected between EMS, NMS and OSS layers in this RFP if there is only 1 EMS	NMS should act as MoM for all the underlying EMSs of customer
541	11.1.5 Network Management Requirements	12	In the topology map, all individual links connecting a pair of devices should be displayed as separate links.	77	Request for removal. Specific to a Network hardware device vendor. Different NMS tools would show topology in different ways and differ in levels of details. The said point is specific to one vendor	Please Refer Corrigendum
542	Annexure A	11.1.4-Servers and Applications Requirements	All Applications and Databases should be deployed on a private cloud setup by the PIA in the data center and would be hosted with architecture to ensure 99.999% availability	77	It is mentioned that NOC DC and DR will be located at Amravati and Tirupati but nothing has been mentioned about location of the private cloud. Will it be collocated with NOC DC or it will be at a different geo. Please clarify	Please Refer Corrigendum
543	Section 11 Page 77 to 82	11.1.5 & 11.1.6	ems, NMS	77	For large network having approx 14000 Network elements and also in view of DOT's ISP licensing T&C, it is important to implement secure Network Operations where every activity in network should be auditable and traceable to WHO, WHEN, WHERE, HOW. It is therefore important to implement Network User Identity and Access & Audit Management where each of every commands is logged with session recording by enabling access to all Network & IT systems through single sign-on screen. It is recommended to add this in SOR for 14000 devices.	PIA shall provide Network Privileged User Identity Management, Access Control and Access Audit solution with record and replay capability of commands executed in Network. Network Access Log shall be kept online for 2 months and stored offline for another 10months.
544		11.1.5	11.1.5 - For any selected device, the complete topology of its connected devices (Layer2 and Layer3) should be displayed.	77	Are there going to be any Layer 1 devices. For the MPLS network, is there any layer 1 underlay network. Also at GP level, are alarms of only routers to be collected or there will be Wifi and RF devices as well?	Clause is Self-Explanatory
545	9	11.1.5	FAN, Fabric card and Power Supply, which are inserted on rear side of chassis, must be visible in the Chassis View.	78	Please delete as this is a vendor specific clause	Clause is Self-Explanatory
546	10	11.1.5	NMS should display the Chassis view	78	Please delete as this is a vendor specific clause	Clause is Self-Explanatory
547	11.1.5 Network Management Requirements	6	Inventory Audit & Comparison - System should perform audit and comparison for inventory components. All physical and logical changes history report should be available in NMS as a report.	78	Request for removal. Specific to a Network hardware device vendor. This is not related to network monitoring and should be included as part of the Asset Management system.	No change

548	11.1.5 Network Management Requirements	20	Image details should be collected and displayed in the Device Inventory view.	78	Request for removal. Specific to a Network hardware device vendor. Image management typically does not fall under the NMS tool because NMS is primarily focussed with Network monitoring and availability. Different OEMs would have different ways in which images are distributed and managed	No change
549	11.1.5 Network Management Requirements	29	NMS should be able to generate a single report on Trap destination IP set on the Devices (to check whether Node is sending traps to multiple destinations)	78	Request for removal. Specific to a Network hardware device vendor. Please note that most of the NMS solution convert the traps in to events that are more intuitive from a management/administration perspective	Please Refer Corrigendum
550		11.1.5	11.1.5 - NMS Server instances should be able to receive SNMP v2c/v3 Traps and syslogs from any SNMP enabled network elements irrespective of the vendor	78	Apart from SNMP, will there be EMS/NMS which support any other protocol for alarm collection like CORBA etc?	Clause is Self-Explanatory
551	13	11.1.5	Link utilization: - It should be possible to display the 95percentile utilization details in addition to Max & Average Values (by removing the peaks)	79	Please delete as this is a vendor specific clause	Please Refer Corrigendum
552	17	11.1.5	Fibre performance alerting: SFP Threshold Crossing Alarm should be raised.	79	Need some clarity as what threshold. Is the attribute is reported by SNMP?	Threshold value should be configurable on case to case basis
553		11.1.5	NMS should be able to differentiate between polling-based alarms and Trap based alarms for Device Reachability	79	Request for removal. Specific to a Network hardware device vendor. Please note that from a fault and performance perspective, NMS tools primarily leverage SNMP and ICMP is used only for non-smpp/ping based devices	No change
554		11.1.5	It should be possible to schedule the devices to move to maintenance state using a spreadsheet/CSV import.	79	Request for removal. Specific to a Network hardware device vendor. Why is this requirement in a spreadsheet when this option is supported by the NMS tools from the GUI itself	Please Refer Corrigendum
555	4	11.1.6	EMS for Network Elements shall support northbound open interfaces such as SNMP/JA VA/CORBA/XML for integration with the NMS.	80	Need to understand what does EMS stand for. Is it Element Management System or Enterprise Management System?	Element Management System
556	11 Page 80	11.1.5	The Authentication logs/System logs/Audit logs/Operations should be available in text format on the server which can be pulled by Log Management System on a specified interval (Example: Daily, Weekly, etc.)	80	We understand that bidder has provide log management system for storing Authentication logs, System logs of router & servers, Access Audit logs and Operational command logs. Please clarify for how many these logs are to be kept online. Also whether Web based User Interface is to be provided to search based on some predefined criteria view these logs.	Yes
557	11 Page 80	11.1.5	NMS should support to integrate with industry standard performance monitoring tool	80	We understand that NMS will extend standard interface like SNMP, CORBA, XML, FTP for such integration by external performance mgmt tool provider. Please confirm.	Yes
558	11 Page 80	11.1.6	Discovery - NMS should support to integrate with industry standard inventory Discovery and Reconciliation application	80	Inventory Discovery is capability of NMS and most of OEMs following proprietary method of discovery and reconciliation, it would be not viable to integrate external discovery tool with Core NMS application. Please remove this clause.	Please Refer Corrigendum
559	11.1.5 Network Management Requirements	11.1.5	NMS should support to integrate with industry standard alarm management tools. Feature to integrate with North bound unified OSS. System should be able to forward interface, Equipment, Hardware alarm, degraded alarms and syslog alarms. NMS shall provide synchronization feature with OSS for all alarm types	80	Request for removal. Specific to a Network hardware device vendor.	No change
560	11.1.5 Network Management Requirements	11.1.5	Each NMS server instance should support 40 users in total and 10 concurrent user sessions.	80	Request for removal. Specific to a Network hardware device vendor. Please remove reference to specific user count and session details as this should be driven by the department's requirement	Please Refer Corrigendum
561	11.1.5 Network Management Requirements	11.1.5	Each NMS server instance should support 3 NBI users	80	Request for removal. Specific to a Network hardware device vendor. Please remove reference to specific user count and session details as this should be driven by the department's requirement	Please Refer Corrigendum
562	Section 11 Page 80	11.1.5	The Authentication logs/System logs/Audit logs/Operations should be available in text format on the server which can be pulled by Log Management System on a specified interval (Example: Daily, Weekly, etc.)	80	We understand that bidder has provide log management system for storing Authentication logs, System logs of router & servers, Access Audit logs and Operational command logs. Please clarify for how many these logs are to be kept online. Also whether Web based User Interface is to be provided to search based on some predefined criteria view these logs.	Yes
563	System Management Requirements	11.1.5	3.NMS should be able to take initial Full Application Backup and later it should only take Application Backup delta that has changed over the last backup interval	80	Please elaborate on Application backup functionality. Is the part of the Backup software functionality?	Periodic backup of data maintained by NMS application
564	27	11.1.6	EMS Should support rapid deployment of IP/MPLS network.	81	Need to understand the task scope for EMS during deployment. Please elaborate	Clause is Self-Explanatory
565	11 Page 82	11.1.8	Master Block / Block Network Racks (With Air Conditioning)	82	Since total of Blocks are 670, please clarify how 737 42U racks are planned to be used.	Please refer corrigendum
566	11.1.8	SI No 1 : Integrated Infrastructure	It is required to deploy Pre-Fabricated Data Centre Solution for Critical IT Equipment. Site conditions require that the entire Pre-Fabricated DC Solution be delivered in CKD (Completely Knock-Down Condition) and system be assembled at site.	82	DC Solution Offered will be on Completely Knock-Down Condition, But Racks Offered will be Welded Construction.	No change
567	11.1.8	SI No 6 : Racks Physical	Individual racks should be of 42U (Height - Min) x 800 mm (width - Min) x 1300 mm (Depth - Min)	82	As the global standard dimensions for the rack is 1200mm Septh, Can We use 1200mm Depth Racks. Request to change the specification to 1200 MM	Please Refer Corrigendum
568	11.1.8		Cold Air Column Space in the front of the mounted equipment in the rack should be at least 790 mm wide and 275 mm deep for each rack. Similar space should be available at the rear of the rack also to facilitate appropriate movement of air.	82	As the following specification biased to one OEM, Vertiv Supplied solution has 150mm Cold Aisle, 150mm Hot Aisle and 900mm for the Equipment Mounting. Request to consider our request to change the specification to 150mm depth.	Please Refer Corrigendum
569	11.1.8	SI No : 7 : Access Control	Biometric reader or Smart card reader (with relevant software along with licenses if needed). Integrated DC Rack doors should have digital locking to permit only authorized persons to open the doors through finger print reader.	83	Our Solution Offered with Biometric access control system with EM Lock Mechanism. Confirmation required to use the same.	Please Refer Corrigendum
570	11.1.8	Sino : 8 Local & Remote Monitoring	Each rack should display following parameters on top of the rack: # Source 1 and Source 2: Current	83	Is it acceptable to Offer Energy Meter on Electrical Panel level to display the current for the Phase 1 and Phase 2.	Please Refer Corrigendum
571	11.1.8		All Rack Doors should be easily removable type (Tool-less) to facilitate any installation and / or service activities. Side panels of the rack should be fully secured. Industry Standard Swing Handle Multi-point locking with Digital Locks should be provided. These locks should be able to confirm locking status electronically along with local LED Indications. EM Locks or Solenoid Type of Locks should not be used for the access control solution.	83	Our Solution Offered with Biometric access control system with EM Lock Mechanism. Confirmation required to use the same.	Please Refer Corrigendum

572	11.1.8	11.1.8-42U Master Block / Block Network Racks (With Air Conditioning)	15.19 5 years on UPS and batteries as per manufacturer plus 2 years AMC	85	Very few oems provide 5 years warranty on Battery, Clause should be amended as 3 years warranty from manufacturer and subsequent AMC for contract period	Please Refer Corrigendum
573	11.1.8	Rack Doors	Rack Color will be required to be customized as per requirement and APSFL logo will be required to be etched on the front glass doors of the rack.	85	Glass Door Required or Mesh Door (Perforated Door Required) Please Confirm.	Please Refer Corrigendum
574	11.1.8	SI No : 1: Integrated Infrastructure Solution	It is required to deploy Pre-Fabricated Data Centre Solution for Critical IT Equipment. Site conditions require that the entire Pre-Fabricated DC Solution be delivered in CKD (Completely Knock-Down Condition) and system be assembled at site.	85	DC Solution Offered will be on Completely Knock-Down Condition, But Racks Offered will be Welded Construction. Confirmation Required on the same.	Please Refer Corrigendum
575	11.1.8	SI No : 8: Ventilation and Thermal Management	The Rack should have ventilated front and rear doors to provide adequate airflow required by the major server manufacturers.	86	Glass Door Required or Mesh Door (Perforated Door Required) Please Confirm.	Please Refer Corrigendum
576	11.1.8	SI No : 8: Ventilation and Thermal Management	The Rack should have a maximum ventilation area for the front door & rear doors.	86	Glass Door Required or Mesh Door (Perforated Door Required) Please Confirm.	Please Refer Corrigendum
577	11.1.8	SI No : 8: Ventilation and Thermal Management	The Rack should provide the means to mount optional cooling accessories for high- density.	86	Do we need to Offer Integrated Rack mounted cooling Unit for the solution? Clarification required on this	Yes
578	11.1.8		All Rack Doors should be easily removable type (Tool-less) to facilitate any installation and / or service activities. Side panels of the rack should be fully secured. Industry Standard Swing Handle Multi-point locking with Digital Locks should be provided. These locks should be able to confirm locking status electronically along with local LED Indications. EM Locks or Solenoid Type of Locks should not be used for the access control solution.	86	Our Solution Offered with Biometric access control system with EM Lock Mechanism. As this is biased towards a particular OEM request to modify the same	Please Refer Corrigendum
579	11.1.8		Biometric reader or Smart card reader (with relevant software along with licenses if needed). Integrated DC Rack doors should have digital locking to permit only authorized persons to open the doors through finger print reader.	86	Our Solution Offered with Biometric access control system with EM Lock Mechanism. Confirmation required to use the same.	Please Refer Corrigendum
580	Section 11 Annexures	11.4	Battery Battery security at GP level	87	Batteries are generally stolen from GPs. Pls clarify what will be security mechanism, the Purchaser will consider during O&M phase to avoid such instances.	No change
581	Section 11 Annexures	11.4	Battery Battery security at GP level	87	Batteries are generally stolen from GPs. Pls clarify what will be security mechanism, the Purchaser will consider during O&M phase to avoid such instances.	No change
582	Section 11 Annexures	11.4	Battery Battery Life Cycle	87	VRLA Battery life's run is 3 years (maximum), It means atleast two times recycling (change of new battery) will happen ? Whether APSFL will purchase these battery or if purchaser doesn't purchase batteries during O&M and bidder will provide and in that case, bidder proposes to take old battery back. Please clarify.	No change
583	Section 11 Page 88	11.1.9	Server Rack	88	Please clarify how many 12U, 24U and 42U racks are required at GP, Block, Master Block and NOC. There is confusion between Commercial SOR and corrigendum. Please clarify	Please refer Corrigendum
584		General Requirements	<ul style="list-style-type: none"> ☑ Rack should be designed to provide Secure, Store, Streamline and Systemize IT Equipment's ☑ Rack should have 100% assured compatibility with all equipment's conforming to DIN 41494 (General Industrial Standard for equipment's) or Equivalent EIA /ISO / EN Standard ☑ The Rack dimensions should be 42u x 600 x1000 	88	No Of Racks has not been mentioned and please confirm the no of Racks required for the same.	Clause is Self-Explanatory
585	11 Page 90	11.1.10	Core IP MPLS Routers 100 G	90	Please clarify what is number of 10G and 1G interfaces/ports required on router.	PIA shall provision 8x10G SFP ports and 8x1G SFP ports with each router.
586	11.1.10	Annexure A	The router should support minimum 2 million MAC address, minimum 128k Pseudo wires.	90	RFP is not clear on how Internet exit will be provided weather it will be centralise Internet and using PWs, L2 tunnel will be created from access router at GP to core or it will have direct exit from each Master block. Since Core router is with very high configuration, in our understanding it is terminating all L2 PW's from access router at GP. In any case, MPLS-TP is much better design as also recommended in DOT reports. Kindly allow MPLS-TP as preferred technology.	No change
587	Core IP MPLS Routers 100 G/11.1.10	2	Router should have 128k multicast routes.	90	The scaling numbers asked for Core IP MPLS Routers 100 G Node is very high. The asked scale would limit the OEMs participation in the bid. We request to optimize scale as per following and allow maximum OEMs to participate in the bid which would lead to a competitive bidding; in a multicast implementation routes are summarized and in no circumstances a core router would need 128K multicast routes " Router should have 64k multicast routes. "	No change
588	11 Page 91	11.1.11	Core Switch	91	Please clarify what is number of 10G and 1G interfaces/ports required on switch	PIA shall provision 16x1G SFP ports and 48x1G SFP port with each Switch.
589	Core Switch/11.1.11	3	Switch should support 8K IGMP Group and scalable to 32K Group with/without Multi chassis ether channel (MCEC) deployment	92	The scaling numbers asked for Core Switch Node is very high. Core router would not be used to terminate large scale MACSec traffic. Asked scale will increase overall cost of the project heavily. We request to optimise this values as per following recommendations: " Switch should support 2K IGMP Group and scalable to 4K Group with/without Multi chassis ether channel (MCEC) deployment. "	No change
590	Core Switch/11.1.11	4	Switch should support 8K Multicast route and scalable to 32K Route with/without Multi chassis ether channel (MCEC) deployment.	92	The scaling numbers asked for Core Switch Node is very high based on requirement (2K is sufficient for IGMP Group) . Asked scale would push all the OEMs to quote bigger routers at Node, which will increase overall cost of the project heavily. We request you to optimise this values as per following recommendations " Switch should support 2K Multicast route and scalable to 4K Route with/without Multi chassis ether channel (MCEC) deployment. "	No change
591	6	11.1.11-Core Switch	The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices	93	The solution should support the network configuration protocol (NETCONF) that provides ability to change configuration of network devices.	No change
592	8	11.1.11-Core Switch	The switch should support up to 16K ingress ACLs and up to 54K egress ACLs. It should support Security and QOS ACL's.	93	The switch should support 16K ACLs in addition to Security and QOS ACL's.	No change
593	9	11.1.11-Core Switch	Operating temperature -40 to 65 Centigrade	93	Please modify to "Operating temperature 0 to 40 Centigrade.	Please Refer Corrigendum
594	11.1.12	2	The Orchestrator should have a built-in repository for all configuration information	93	Does this mean storing individual configuration data for all devices, or only at design time level.pl clarify	runtime

595	Core Switch/11.1.11	6	<p>The switch should support the following programmability features:</p> <ul style="list-style-type: none"> The router should support Netconf interface for device configuration The router should support Openconfig or IETF based YANG models The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices The solution should support an Architecture for Network Management Using NETCONF and YANG models 	93	<p>YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML.</p> <p>In view of the above, we request APfiber to Modify the clause as</p> <p>"The Router should support the following programmability features:</p> <ul style="list-style-type: none"> The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration The router should support Openconfig/ IETF based YANG models/SNMP/RESTAPI/XML The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices The solution should support an Architecture for Network Management Using NETCONF/YANG models" 	No change
596	Core Switch/11.1.11	7	8 ports 40 Gig QSFP, 48 ports 1/10G Fiber module with transceivers (shortrange) and 48 ports 1/10 G - T module	93	For a Core High Speed Switch, copper ports are not recommended (for reliability and Speed) and instead optical multimode SFP should be used. Kindly modified the clause as "8 ports 40 Gig QSFP, 48 ports 1/10G Fiber module with transceivers (shortrange) "	No change
597	Core Switch/11.1.11	9	Operating temperature -40 to 65 Centigrade	93	Core Switch are always placed in controlled environment of 0 to max 40" to get maximum optimize efficiency. Thus it is recommended to modify the clause as "Operating temperature -40 to 40 Centigrade"	Please Refer Corrigendum
598	11 Page 94	11.1.13-DHCP, DNS & IPAM	All appliance(s) must support two or more network interfaces that are separate from any dedicated out-of-band management interfaces	94	This is very restrictive clause for Next generation technology OEM participation. While this RFP takes about private cloud and complete Virtualization of IT infra, DNS and DHCP has been asked in appliance form factor. Kindly allow DHCP, DNS and IPAM solution on Virtualized Server. These applications perform better in latest generation servers and will have better scalability.	Please Refer Corrigendum
599	11.1.12	14	Orchestrator should have mechanisms for creating, modifying and deleting services	94	The target customers for BBNL-AP will be only restricted to B2B (enterprise) or to B2C as well?	both
600	11.1.12	21	Communicates with other SDN applications and systems to gather current network topology and operational state orchestrates configuration and deployment of Layer 3 VPNs, Layer 2 VPNs (PWE, VPLS, E-VPN), OoS configuration	94	is deployment of SDWAN in Scope?. What use cases it needs to support.	enterprise WAN
601	11.1.12	28	It shall be possible to discover all the existing services including all the service parameters from the network	94	Does this mean, auto discovery of all n/w elements and figuring out services from them, or can we co-relate this information from logical inventory, kindly elaborate	both
602	11.1.12	30	It shall be possible to achieve the end goal of point and click provisioning for all types of services on the existing network having multiple IGP domains and areas.	94	What is referred to as multiple IGP domains here ?	Clause is Self-Explanatory
603	11.1.12	36	Orchestrator should support NACM RFC 6536 for config access and control functionality	94	NACM RFC 6536 (based on YANG Models) is fairly news concepts for networking and every OEM is trying to derive the data structures based on particular customer networks. Moreover the same functionality is supported by SNMP. Thus for Greater OEM participation kindly Modify the clause as "Orchestrator should support NACM RFC 6536 for config access and control functionality or equivalent "	No change
604	11.1.12	38	Same Orchestrator should be able to support Virtual network functions as well as physical network function	94	Which VNFs are to be considered In scope.	It should support any VNF with stadards based interfaces
605	11.1.13-DHCP, DNS & IPAM		Clarification	94	Please confirm whether BBNL has existing DHCP Server, DNS Server and whether BBNL is interested in DNS based security	Nothing existing, SI to propose
606	11.1.13-DHCP, DNS & IPAM		Additional DNS Security	94	The threat intelligence must be consumed from the vendor facilities that serve the recursive DNS requests	No change
607	11.1.13-DHCP, DNS & IPAM		Additional DNS Security	94	The solution must be able to detect and block advanced malware related domains regardless of the specific ports or protocols used by the malware	No change
608	11.1.13-DHCP, DNS & IPAM		Additional DNS Security	94	The solution must be able to detect and block malicious domains using protocols different from HTTP/HTTPS	No change
609	11.1.13-DHCP, DNS & IPAM		Additional DNS Security	94	The solution must be able to protect at least from the following categories of malicious domains: botnets, exploit kits, drive-by, phishing, newly seen domains	No change
610	11.1.13-DHCP, DNS & IPAM		Additional DNS Security	94	The solution must be able to prevent infections, blocking the DNS requests towards malware distribution domains or drive-by domains, and contain the pre-existing infections, blocking the DNS requests towards command and control infrastructures	No change
611	1	11.1.14-AAA Server	The AAA Server should provide authentication services to all the users connecting to the network, should enforce security policies on the end stations.	96	Please change the clause to "The AAA Server should provide authentication services to all the users connecting to the network, should enforce security policies on the end stations / network infrastructure"	No change
612	19	11.1.14-AAA Server	The AAA Server should be able to support large networked environments with support for redundant servers, remote databases, and user database backup services	96	Please change the clause to "The AAA Server should be able to support large networked environments with support for redundant servers, remote databases, and user database / configuration data backup services"	No change
613	20	11.1.14-AAA Server	Windows Active Directory support to consolidate Windows username and password management and uses the Windows Performance Monitor for real-time statistics viewing	96	Please remove this clause	No change
614	11.1.14	5	Policy decision point for Policy Control deployments.	96	Is their a requirement for PCRF as well?	No specific requirement
615	11.1.14	7	Policies should be evaluated locally by AAA Server or can be the result returned from an external policy server	96	Please advice if policy server exists/required as part of the solution. If yes, what's the interface required between AAA and policy server.	No policy server exists. The proposed solution should consider it.
616	1.11	11.1.15-Firewall	Should have 2 USB 2.0 ports	97	Please change the clause to "Should have 1 or more USB 2.0 ports"	No change
617	1.126	11.1.15-Firewall	The FW should deliver per-flow, policy-based QoS services, with support for LLQ and Traffic Policing for prioritizing latency-sensitive network traffic and limiting bandwidth usage of administrator-specified applications	97	Please delete the clause	No change
618	1.13	11.1.15-Firewall	Should support integrated IP sec and Client and Clientless SSL VPN	97	Please change the clause to "Should support integrated IP sec and Client or Clientless SSL VPN"	No change
619	1.19	11.1.15-Firewall	Firewall should support Web based (HTTP and HTTPS) configuration, and management	97	Please change the clause to "Firewall should support Web based (HTTP / HTTPS) configuration, and management"	No change
620	1.25	11.1.15-Firewall	The FW should support Modular Policy Frame work which provides a powerful, highly flexible frame work for defining flow- or class-based policies, enabling administrators to identify a network flow or class based on different conditions, and then apply a set of customizable services to each flow or class	97	Please change the clause to "The FW should support Modular Policy Frame work which provides a powerful, highly flexible frame work for defining flow- or class-based policies or applications, enabling administrators to identify a network flow or class based or applications on different conditions, and then apply a set of customizable services to each flow or class or application	Please Refer Corrigendum
621	1.4	11.1.15-Firewall	Should have a throughput of minimum 40Gbps firewall throughput, 13Gbps of Application Inspection and 4 Gbps of VON throughput	97	Please change the clause "Should have a NGFW / Threat Prevention (Firewall, AVC, IPS running) throughput of minimum 13Gbps and 4 Gbps of VON throughput	No change
622	1.6	11.1.15-Firewall	New connections per second 325,000, 1000 VLANs and 100 Virtual fire walls	97	Please change the clause to "New connections per second 100,000 or more and support 1000 VLANs	No change

623	24	11.1.14-AAA Server	Tight coupling with Routers and VPN solutions to provide features such as Multi chassis Multilink Point-to-Point Protocol (PPP) and Router/Switch Software command authorization	97	Please remove this clause	No change
624	26	11.1.14-AAA Server	It should also provide dynamic quotas for time-of-day, network use, number of logged sessions, and day-of-week access restrictions.	97	Please remove this clause	No change
625	1. 15	11.1.15-Firewall	Should support Ether channel/Port aggregation with Each channel group supporting up to eight active interfaces. Should support up to 16 interfaces in a channel group.	97	"Should support Ether channel/Port aggregation with Each channel group supporting up to eight active interfaces."	No change
626	11 Page 97	1. 15	Should support Ether channel/Port aggregation with Each channel group supporting up to eight active interfaces. Should support up to 16 interfaces in a channel group.	97	Request you to modify the clause as each channel group should support a min of 8 interfaces in a channel group.	No change
627	1.03	11.1.15-Firewall	support for network monitoring using SNMP Versions 1, 2c, and 3, and supports the use of all three versions simultaneously.	98	Please change the clause "support for network monitoring using SNMP Versions 1, 2c, and 3."	No change
628	1.29	11.1.15-Firewall	IPv6-enabled Inspection services for applications based on HTTP, FTP, SMTP, ICMP, TCP, and UDP. In addition, SSHv2, Telnet, HTTP and HTTPS, and ICMP-based management over IPv6	98		No change
629	1.33	11.1.15-Firewall	The Firewall must have support for virtual fire walls and include at least 2 virtual firewalls without any additional license costs	98	Please delete the clause	No change
630	2.1	11.1.15-Firewall	For Windows Mobile Devices, should have capability to write Lua expressions in Dynamic Access Policies (DAPs) to perform posture checks on those attributes unique to mobile devices	98	Please change the clause to "Should support either natively or using external appliance, For Windows Mobile Devices, should have capability to write Lua expressions in Dynamic Access Policies (DAPs) to perform posture checks on those attributes unique to mobile devices "	Please refer Corrigendum
631	2.16	11.1.15-Firewall	The secure appliance should support advanced transformation capability that helps ensure compatibility with Web pages containing complex content, including HTML, Java, ActiveX, JavaScript, and Flash. In addition, should provide filtering of ActiveX and Java applets to prevent downloads of malware	98	Please change the clause to "The secure appliance should support advanced transformation capability that helps ensure compatibility with Web pages containing complex content, including HTML, Java, ActiveX, JavaScript, and Flash. In addition, should provide filtering/equivalent mechanism of ActiveX and Java applets to prevent downloads of malware	No change
632	2.17	11.1.15-Firewall	The device should detect Key Logger applications and prevent user access	98	Please change the clause to "Should support either natively or using external appliance, The device should detect Key Logger applications and prevent user access"	No change
633	2.7	11.1.15-Firewall	Should support Endpoint Assessment that examines the remote computer for a large collection of antivirus and antispayware applications, associated definitions updates, and fire walls	98	Please change the clause "Should support either natively or using external appliance, Endpoint Assessment that examines the remote computer for a large collection of antivirus and antispayware applications, associated definitions updates, and fire walls"	No change
634	3.1	IPS Features:Inspect encapsulated traffic include: • MPLS		98	This is proprietary to one OEM	Deleted
635	3.3	11.1.15-Firewall		98	Kindly remove this point	Deleted
636	11 Page 98	3.3	Inspect encapsulated traffic include: • MPLS	98	We understand that is clause restricts the participation of OeM's. Kindly check and modify.	Deleted
637	11 Page 98	3.7	Inspect encapsulated traffic include: • Q-in-Q double VLAN	98	We understand that is clause restricts the participation of OeM's. Kindly check and modify.	Deleted
638	11 Page 98	2. 10	For Windows Mobile Devices, should have capability to write Lua expressions in Dynamic Access Policies (DAPs) to perform posture checks on those attributes unique to mobile devices	98	We understand that is clause restricts the participation of OeM's. Kindly check and modify.	Deleted
639	2. 10	11.1.15-Firewall	For Windows Mobile Devices, should have capability to write Lua expressions in Dynamic Access Policies (DAPs) to perform posture checks on those attributes unique to mobile devices	98	Kindly remove this point	Deleted
640	3.01	11.1.15-Firewall	Identify the source of denial of service (DoS), distributed denial of service (DDoS), SYN flood, and encrypted attacks	99	Please change the clause to "Identify the source of denial of service (DoS) / distributed denial of service (DDoS), SYN flood, and encrypted attacks"	No change
641	3.11	11.1.15-Firewall	Use patented anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques.	99	Please change the clause to "Use patented / equivalent anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques.	please refer corrigendum
642	3.7	11.1.15-Firewall		99	Kindly remove this point	Deleted
643	3.7	11.1.15-Firewall		99	Please remove this clause	Deleted
644	3.8	11.1.15-Firewall	Concurrent Threat Mitigation Throughput (Mbps) (Firewall + IPS Services) should be 2gbps	99	Please remove this clause	No change
645	11 Page 99	3. 11	Use patented anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques.	99	Use anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques. Request to remove the word patented, as each vendor will have specific patents for specific features.	please refer corrigendum
646	11.1.16	Order Management	Proposed Order Management system should support Oracle and Postgre SQL databases	99	What is the preferred database for BBNL here ?	Vendor to propose a carrier grade solution
647	11.1.16	Order Management	General-Volumetric.	99	How many service orders are expected per day/per hour ?	25000/day
648	11.1.16	Order Management	General-Volumetric.	99	What will be the data retention time for service orders and provisioning requests	Question not clear
649	11.1.16	Order Management	General-Volumetric.	99	What will be %growth YoY ? For Orders	Initially 80% on base of 14 million and there after 20%
650	3. 11	11.1.15-Firewall	Use patented anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques.	99	"Use anti-evasion technology to defend and monitor against worms, viruses, Trojans, reconnaissance, spyware, botnets, phishing, peer to peer, malware as well as numerous evasions techniques."	please refer corrigendum
651	Order Management	11.1.16		99	How many concurrent users are expected to be connected to the order management application	Limits can not be defined. How ever the solution is scalable
652	Order Management	11.1.16		99	How many orders/day are expected	Limits can not be defined. How ever the solution is scalable
653			11.1.16 - Proposed Service & Resource Inventory System Data Model should consists of	100	Incomplete clause	Clause is Self-Explanatory
654			11.1.16 - Proposed Service & Resource Inventory system should also act as a federated inventory when its not possible to master all information in a single inventory and remain in distributed systems but can be accessed and aggregated by a federated inventory.	100	Which other inventories apart from the Service & Resource inventory need to be considered as part of the solution for federation?	Vendor to propose a carrier grade solution
655			11.1.16 - Proposed Service & Resource Inventory system should be able to	100	Incomplete clause	Clause is Self-Explanatory
656			11.1.16 - Proposed Service & Resource Inventory system should Provide Information during following operator processes	100	Which processes are being referred to here	Clause is Self-Explanatory
657			11.1.16 - Proposed Service & Resource Inventory system should store and manage following information	100	Incomplete clause	Clause is Self-Explanatory
658	11 Page 101	11.1.16	Alarm Management	101	Alarm management requirements is already mentioned as part of NMS Fault Management specification at Page 79. Kindly drop alarm management requirement from page 101 to Page 114	No change
659			11.1.16 - Proposed Service & Resource Inventory system GUI should offer	101	Incomplete clause	Clause is Self-Explanatory

660	11 Page 104	11.1.16	Network Topology View	104	Network Topology requirements is already mentioned as part of NMS Network Discovery and Topology specification at Page 77. Kindly drop alarm management requirement from page 101 to Page 144	No change
661	11 Page 111	11.1.16	Performance Management	111	Performance management requirements is already mentioned as part of NMS specification at Page 78. Kindly drop performance management requirement from page 101 to 114.	No change
662	11.1.16		The PM tool must act as Performance Data Repository for all Mobile Network domains (Mobility, IP, Transmission and core).	111	what is the mobile Network domain component in this RFP?	Please refer Corrigendum
663	11 Page 114	11.1.16	BSS	114	Please indicate sizing parameters per BSS. We suggest following No. of B2B Customers in 7 years = 1Lakh No. of Service Orders (New/Change/Delete) per day = 100 Number of Customer calls per day on NOC Contact Center = 500 Number of Concurrent Users on Web Portal / Dashboard = 10000 Number of Concurrent CRM Users = 100 Number of Concurrent Workforce Management Users = 100 Please confirm.	Accepted
664	11 Page 114	11.1.16	BSS	114	Please indicate how many Payment Gateway Integration are to be considered. Please also add "Integration with Payment Gateway" line-item to Commercial SOR.	No change
665	Section 11 Page 114	11.1.16	BSS	114	Please indicate how many Payment Gateway Integration are to be considered. Please also add "Integration with Payment Gateway" line-item to Commercial SOR.	No change
666	11 Page 115		f. Industry standard GIS applications	115	Pls confirm whether GIS tool has to be provided as part of this tender by PIA	GIS application is not to be provided in this tender however interface of ems/NMS shall be provided to integrate with GIS application.
667	Section 11 Page 115		f. Industry standard GIS applications	115	Pls confirm whether GIS tool has to be provided as part of this tender by PIA	GIS application is not to be provided in this tender however interface of ems/NMS shall be provided to integrate with GIS application.
668		9.19 Security / Bank Guaranteee	Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of ____YEARS (as specified in P.O) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.	119	Please clarify the period of the BG	O&M Performance Bank Guarantee to be given shall be 10%of annual avg of O&M Cost for 7 Years. The validity of PBG shall be for 7 years or a minimum of 3 years which shall be extended further for a total time period of 7 years. The Extended/reviised PBG shall be submitted 6 months prior to the date of expiry of the previous PBG
669	11 Page 120	11.1.6	50. Billing Scenarios: APFSL systems to maintain inventory and fulfil, assure, bill, payment, accounting services will be designed to be wholesale / enterprise in nature, and will also support direct retail of services	120	The BSS needed on this network should be of B2B customers. Kindly remove the requirement of retail billing	No change
670	Section 11 Page 120	11.1.6	50. Billing Scenarios: APFSL systems to maintain inventory and fulfil, assure, bill, payment, accounting services will be designed to be wholesale / enterprise in nature, and will also support direct retail of services	120	Please clarify whether Billing system is required for retail subscribers since RFP clause refers to Usage/CDR based billing. If yes what is number of retail subscriber to be considered.	Billing system to support all services on this network
671	11 Page 121	11.1.6	APFSL services are proposed to be wholesale billing in nature i.e. APFSL proposes to provide the services to the ISPs/TSPs/Enterprise customers/OSPs. It is proposed to support direct billing retail services thus Usage-based /CDR based retail billing.	121	Billing system is needed for B2B customers. However in second part of the clause it mentions the Billing System should support direct billing for Usage/CDR bases which is normally of B2C nature. Kindly remove the requirement of retail billing and usage/CDR based billing to remove conflict. Request amend clause to APFSL services are proposed to be wholesale billing in nature i.e. APFSL proposes to provide the services to the ISPs/TSPs/Enterprise customers/OSPs. It is proposed to support flat, wholesale billing services.	No Change
672	Section 11 Page 121	11.1.6	APFSL services are proposed to be wholesale billing in nature i.e. APFSL proposes to provide the services to the ISPs/TSPs/Enterprise customers/OSPs. It is proposed to support direct billing retail services thus Usage-based /CDR based retail billing.	121	Please clarify whether Billing system is required for retail subscribers since RFP clause refers to Usage/CDR based billing. If yes what is number of retail subscriber to be considered.	Billing system to support all services on this network
673			12.3.6. Identity and Integration Services: Account and Service Management Features, Identity Management, Authentication and Authorization, System Messaging, Trouble Ticketing	127	How are the identities of the users managed in the web-applications? How is SSO achieved for all the related applications? What types of roles would exist in the environment and how will the administrators manage seamless access to all the resources? How will the users reset the forgotten passwords? How will the administrators manage the lifecycle of users in all the connected systems, be it web-applications or core servers? How will the users raise a request for the applications and who would be responsible for the approvals? How will the audit trails be maintained for all the requests? How will the SMS tokens be used for the 2nd Factor authentication? Will there be a need for custom development or customization of the applications? Does all the systems and applications allow this kind of customization? How will the users' session information be shared between applications to manage seamless access and user experience? What are the types of users that will interact with the systems? How, they are different and what permissions have to	Clause is Self-Explanatory
674	11 Page 128	11.1.6 BSS (12.f)	Specification for Centralized Reports Solution	128	Please add Centralized Reporting Solution in Commercial & technical SOR.	PIA shall provide Centralized Reporting Solution Please Refer Corrigendum
675	11 Page 128	Clause 5	Contact Center Operations Standard Contact centre operations to support end user base of 10 lacs/as the number may be and several hundred MSOs, ISPs in the first year. The call centers shall be established by the MSOs, ISPs etc, but the application should proposed by the bidder should support the same.	128	We understand that APFSL network will have B2B/Enterprise/Govt. customers. We recommend that Number of B2B customers should be reduced to 1 lac considering acquisition across 7 years (presently it is mentioned as 10 lac). This number does not include B2C customers or, retail customers of APFSL's B2B customers. The IP Contact Center must be limited to handle 1lac B2B customers with 30 registered agents (NOC + DR NOC). The responsibility for call centers which shall be established by MSOs, ISPs etc. must be de-linked from this tender scope. Please modify clause to "Standard Contact centre operations to support end user base of 1 lac/as the number may be and several hundred MSOs, ISPs in the first year. The contact centers established by PIA at NOC shall support calls from these customers."	No Change

676	Section 11 Annexures	11.1.17	UPS Specifications Solar Hybrid- 1 KVA UPS (PCU): Battery sizing details to be enclosed: Batteries of well-known brands to be supplied with OEM Warranty Certificate for 5 years duration.	128	As per this RFP, 7 years AMC is being provided by PIA, so we consider that additional 2 years, AMC needs to take for these batteries.	Please Refer Corrigendum
677	Section 11 Annexures	11.1.17	UPS Specifications Solar Hybrid- 1 KVA UPS (PCU): Battery sizing details to be enclosed: Batteries of well-known brands to be supplied with OEM Warranty Certificate for 5 years duration.	128	As per this RFP, 7 years AMC is being provided by PIA, so we consider that additional 2 years, AMC needs to take for these batteries.	Please Refer Corrigendum
678	Section 11 Annexures	11.2	Annexure B: Implementation Planning Guidelines GP Commissioning & NOC Readiness	131	NOC with O&M Modules completion date is not mentioned in RFP, while GP commissioning will start from T+3. How would Monitoring & SLA management will happened for O&M Period till NOC is fully ready?	Please Refer Corrigendum
679	Master Service Agreement	10.11.9	The Consortium members have agreed that PIA is the prime point of contact between the Consortium member and the APSFL and it shall be primarily responsible for the discharge and administration of all the obligations contained herein and, the APSFL, unless it deems necessary shall deal only with PIA. PIA along with all consortium members shall be jointly and solely responsible for the project execution.	137	The members of the consortium to be jointly and severally liable towards APSFL	Please Refer Corrigendum
680	Section 11 Annexures	q	Bidder's Obligations: The training has to be conducted using official OEM course curriculum mapped with the hardware/Software Product's to be implemented in the project.	137	Please clarify, which type of training is required in O&M phase.	Clause is Self-Explanatory
681	Section 11 Annexures	s	Bidder's Obligations: PIA shall provision the required critical spares/components at the designated Datacenter Sites/office locations of the APSFL for meeting the uptime commitment of the components supplied by him.	138	we understand we will get office/spaces of APSFL for warehousing purpose/storing of spares. Where will we get these offices ? At Taluka level or Distt level ? Please clarify.	Details will be shared at the time of signing of contract
682	Section 11 Annexures	s	Bidder's Obligations: PIA shall provision the required critical spares/components at the designated Datacenter Sites/office locations of the APSFL for meeting the uptime commitment of the components supplied by him.	138	we understand we will get office/spaces of APSFL for warehousing purpose/storing of spares. Where will we get these offices ? At Taluka level or Distt level ? Please clarify.	Details will be shared at the time of signing of contract
683	Section 11 Annexures	m	Reporting Progress. Knowledge of Server Room, Command and Control Center, City Operation Center	139	Please clarify this clause.	Clause is Self-Explanatory
684	Master Service Agreement	24	In case during execution of works, the progress falls behind schedule or does not meet the Tender requirements, PIA shall deploy extra manpower/resources to make up the progress or to meet the RFP requirements. Plan for deployment of extra man power/resources shall be submitted to the APSFL for its review and approval. All time and cost effect in this respect shall be borne, by PIA within the contract value.	140	Pls clarify about the costs borne due to project behind schedule due to reasons not attributable to the PIA?	No change
685	Section 11 Annexures	11.7	Payments: O&M Payments	140	1. Clarify- Who will be SPOC for SLA signoff on monthly/quarterly basis? Will it be single person or multiple persons? We request to make it Single Person Responsibility.	Clause is Self-Explanatory
686	Section 11 Annexures	11.7	Payments: O&M Payments	140	2. Pls clarify TAT of Monthly SLA Signoff by respective SPOC of Purchaser.	Please refer corrigendum
687	Section 11 Annexures	11.7	Payments: O&M Payments	140	3. Once three months SLA documents are signed off individually, there should not be any need of signing Quarterly SLA document, pls clarify. If yes, pls mention TAT of SLA document signoff.	Clause is Self-Explanatory
688	Section 11 Annexures	11.7	Payments: O&M Payments	140	4. In which office, bidder will submit O&M Invoice ?	APSFL corporate office
689	Section 11 Annexures	11.7	Payments: O&M Payments	140	5. Pls clarify Payment TAT (timeline from submission of invoice with purchaser validated quarterly SLA document at purchaser office)	7 Days
690	Section 11 Annexures	f	APSFL's Obligations APSFL reserves the right to procure the hardware including devices on quarterly basis in first year based on actual deployment and O&M shall be applicable whenever the devices are procured and deployed till end of the contract.	140	1. Which type of hardware being required as per this clause ? 2. We understand that new hardware addition in O&M phase will be taken care through Change Management or new PO.	Clause is Self-Explanatory
691	Section 11 Annexures	f	APSFL's Obligations APSFL reserves the right to procure the hardware including devices on quarterly basis in first year based on actual deployment and O&M shall be applicable whenever the devices are procured and deployed till end of the contract.	140	1. Which type of hardware being required as per this clause ? 2. We understand that new hardware addition in O&M phase will be taken care through Change Management or new PO.	Clause is Self-Explanatory
692	Section 11 Annexures	a	Warranty A comprehensive warranty applicable on goods supplied under this contract shall be provided for the period of 7 Years from the date of supply of respective system by the Authority.	141	Comprehensive warranty for 7 years is not a viable option in view of product roadmap, its end of sale date. Warranty can be given for 1/2 Year and rest of years of contract should be considered for AMC. Also in other clauses, 7 years AMC is being mentioned in RFP. Please clarify.	Clause is Self-Explanatory
693	Section 11 Annexures	b	Warranty Technical Support for Software applications shall be provided by the respective OEMs for the period of contract.	141	OEM will only provide L3 Support while bidder/SI would provide L1/L2 support. Request to change clause to "L3 Technical Support shall be provided by the respective OEM for till the end of the contract period."	Clause is Self-Explanatory
694	Annexure G: Indicative Master Service Agreement	Performance security LD	IF PIA fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in Section 3, the APSFL without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. The deduction shall not in any case exceed 10 % of the contract value.	144	1. The three definitions of LD, percentage of LD to be levied and capping are contradictory. Kindly confirm the correct definition. 2. Any delay not attributable to PIA will be to APSFL's scope and time extension with additional cost shall be granted to PIA in execution schedule at actuals. The Liquidated Damage / penalties (of any kind / nature will not be applicable in such cases.)	The maximum capping on LD shall be 12% of the project cost
695	Section 10 Annexure K		Liquidated Damages a. If PIA fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in Section 3, the APSFL without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. b. The deduction shall not in any case exceed 10 % of the contract value.	144	Two different Clauses are mentioned in the RFP. Please confirm that Clause of liquidated Damages at Page 144 is to be followed and Clause 3.9.4 at Page 29 is to be deleted.	Please refer 3.9.4
696	Annexure G: Indicative Master Service Agreement	Consequence of Termination	The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of the Contract that are expressly or by implication intended to come into or continue in force on or after such termination.	145	post termination PIA shall suspend its services	No change
697	Annexure G: Indicative Master Service Agreement	Termination	The APSFL may, terminate this Contract in whole or in part by giving PIA a prior and written notice indicating its intention to terminate the Contract under the following circumstances	145	No Termination right to PIA	No change
698	Section 11 Annexures	3	Pre-Implementation SLAs	147	What does pre-Implementation SLAs mean ? Please clarify.	Clause is Self-Explanatory

699	Section 11 Annexures	3	Pre-Implementation SLAs d. Hours for restoration should be calculated based on working hours starting 8 AM to 8 PM	147	Restoration should be calculated based on working hours from 8 am to 5 pm due to miscellaneous issue in the field like law and order issue etc.	Clause is Self-Explanatory
700	Section 11 Annexures	3 b	Pre-Implementation SLAs - Assumptions: PIA shall follow APSFL in house Trouble Ticket Module for capturing the fault status which will in turn be used for SLA calculation through the SLA module.	147	1. If PIA will use APSFL's inhouse trouble ticket tool then who will manage this tool ? APSFL or third party or PIA ? 2. In case of APSFL's inhouse tool, how will we calculate and validate SLA and penalty ? Till it is not handed over/resolved then till that time, whether we will calculate SLA and Penalty manually? 3. If APSFL's inhouse tool will be used then should PIA require to cater new ticketing tool ? Please clarify all ?	Clause is Self-Explanatory
701	Sla Management	2	"Response Time" - Time elapsed from the moment an incident is reported in the Helpdesk over phone or by any applicable mode of communication, to the time when a resource is assigned for the resolution of the same. g. "Resolution Time" - Time elapsed from the moment incident is reported to Helpdesk either in person or automatically through system, to the time by which the incident is resolved completely and services as promised are restored.	147	While the SLA mentions SLA response and resolution times.. There is no referencce the specs for helpdesk. Please suggest if a helpdesk tool needs to be proposed as part of this project?	Yes
702	11.1.16		Alarm Management/ Performance Management	101-108	Is there a need for multi vendor multi technology FM/PM system to manage one NMS?	Yes
703	2	2.2.2(S) & 2.3.1(A) (1.5)	GST registration number	11 &15	Many of the bidders who are not presently working in the state of AP may not have GST rogestration number for AP. Please confirm that the GST resistration for the home state of the bidder alongwith an undertaking to obtain GST registration within one month of award of work shall suffice this purpose.	Agreed
704	2.3.3	E. Project Experience	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network. (Purchase Orders/Project Completion Certificates from Customer)	15,16	Project Experience should be asked wider and it should not be linked to one technology and one Product. We would like to request to amend the clause as "The Lead bidder should have an install base of at least 200 telecom nodes along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of telecom nodes should be deployed in India in one single network preferably in Government/ telco network. (Purchase Orders/Project Completion Certificates from Customer).Please confirm our understanding. Additionally,as Consortium bid is allowed please confirm that Lead bidder can rely on the experience of his consortium members for any experience criteria.Please confirm.	Please refer corrigendum
705	2.1.1 Network Racks specifications	7.1	The manufacturer should supply 2 No cable management with detachable door in the front (On R & L Side) for management of Vertical Cables. These Cable Managers will have the Rigid Plastic Fingers in 1U Format to facilitate the cable management.	2.1.1	Rack Specifications do not specify most important criterion of Rack Dimensions. It is also not mentioning anything about the level of cooling required. It is very important to ensure certain functional size of the rack along with more importantly - useable width and related space within the rack as functional area. This inner space will also help to maintain the air circulation and facilitate the cable management to the best possible way enabling proper air movement. It is pertinent to pre-define these parameters like it was done in the initial specifications released in the tender. Absence of these details may culminate in to a difficult situation post tendering process.	Clause is self explanatory
706	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.5	Smoke/Fire	2.1.1.2	It is very important to locally display all important parameters like current drawn, rack temperatures and RH. So that the person in side the DC area is fully aware of the status. Monitoring of the same parameters over IP is definitely required over IP.	no change
707	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	6.1	Blank Panels for closing the opening / gaps in the front mounting rails	2.1.1.2	Rack Specifications do not specify most important criterion of Rack Dimensions. It is also not mentioning anything about the level of cooling required. It is very important to ensure certain functional size of the rack along with more importantly - useable width and related space within the rack as functional area. This inner space will also help to maintain the air circulation and facilitate the cable management to the best possible way enabling proper air movement. It is important to pre-define these parameters like it was done in the initial specifications released in the tender. Absence of these details may culminate in to a difficult situation post tendering process.	no change
708	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	8.3	The Rack should provide Four Exhaust Fans Operated on 230V AC whenever Air Conditioner fails. And also, important that, Exhaust portion for the fans must be covered when Air Condition works to minimize cooling leakage	2.1.1.2	Any such arrangements are not desired at the rack level and it increases points of failure while allowing the dust to get inside the air-conditioned rack.	Please refer Corrigendum
709	3. General Conditions of Contract	3.9 Work to be completed by the Scheduled Completion Date 3.12 Delays by APSFL or its authorized agents	3.9.4.e. Any delay attributable to grant of permission by the requisite Right of Way APSFL or any other approvals beyond 30 days from the first application date shall be exempt from calculation of Liquidated Damage charges. 3.12.1. In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and Right of Way from the concerned authorities beyond 60 days, then the PIA shall be given due extension of time for the completion of the Work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of its Work.	29-30 31	We suggest for the simplification of project performance schedule i.e., any delay (number of days) affected due to any act or omission on the part of APSFL,PIA shall be granted equal (number of days) as extension of time for its completion of the Work.	No change
710	3. General Conditions of Contract	3.9 Work to be completed by the Scheduled Completion Date 3.12 Delays by APSFL or its authorized agents	3.9.4.e. Any delay attributable to grant of permission by the requisite Right of Way APSFL or any other approvals beyond 30 daysfrom the first application date shall be exempt from calculation of Liquidated Damage charges. 3.12.1. In case the PIA's performance is delayed due to any act or omission on the part of APSFL or its authorized agents and Right of Way from the concerned authorities beyond60 days, then the PIA shall be given due extension of time for the completion of the Work, to the extent such omission on the part of APSFL has caused delay in the PIA's performance of its Work.	29-30 31	We suggest for the simplification of project performance schedule i.e., any delay (number of days) affected due to any act or omission on the part of APSFL,PIA shall be granted equal (number of days) as extension of time for its completion of the Work.	60 Days

711	3	3.9	Should the PIA fail to deliver the services as per the contract and the implementation plan submitted by PIA and accepted by PMA and APSFL during planning stage within the period prescribed, APSFL, without prejudice to other remedies available to APSFL shall be entitled to recover, as agreed liquidated damages, a sum equivalent to 0.5% of the implementation cost of the GP's delayed for each week of delay or part thereof for a period up to 13 weeks. Thereafter, 0.7% of the implementation cost of the GP's delayed for each week of delay or part thereof for a period up to another 13 week.	30 & 143	The LD clause mentioned under Section 3, page no.30 and LD clause mentioned under section 11, page no.143 are contradicting. Please clarify the correct clause. Also, request to provide maximum cap on the LD.	The maximum capping on LD shall be 12% of the project cost
712	11	11.7 Annexure G: Indicative Master Service Agreement	a. If PIA fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in Section 3, the APSFL without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. b. The deduction shall not in any case exceed 10 % of the contract value.	30 & 143	The LD clause mentioned under Section 3, page no.30 and LD clause mentioned under section 11, page no.143 are contradicting. Please clarify the correct clause. Also, request to provide maximum cap on the LD.	The maximum capping on LD shall be 12% of the project cost
713	3. General Conditions of Contract	3.17 Payment Terms	Pg 33: Mobilization advance of 10% of the PO value will be given to the vendor, on its request, against submission of Bank Guarantee of equivalent amount Pg 34: (In the table) Documentary evidence for mobilization advance - Against submission of BG of 110% of mobilization advance	33 - 34	Kindly confirm the BG required to be submitted for mobilization advance shall be of equivalent value i.e., 100% of mobilization advance. Once project is in running phase i.e., material delivery & implementation, their shall always be significant WIP which shall more than suffix as security. As such 'mobilization advance PBG' validity may be kept up to 10% GPs are commissioned i.e., start of O&M, Or, If mobilization advance PBG needs to be kept valid for entire project, then their should not be requirement of any other PBG (Implementation, O&M, as their shall always be 10% of total contract values PBG As security with APSFL	Please Refer Corrigendum
714	3. General Conditions of Contract	3.17 Payment Terms	Payment against material for milestone: 3. Commissioning of GPs in a month - 15% payment of supplied material consumed in commissioning in previous month 4. Start of O&M - 5% payment of supplied material consumed in commissioning of GPs.	33 - 34	We suggest that kindly delink the supply payment from consumption / Installation & Commissioning	Clause is Self-Explanatory
715	3. General Conditions of Contract	3.17 Payment Terms	Pg 33: Mobilization advance of 10% of the PO value will be given to the vendor, on its request, against submission of Bank Guarantee of equivalent amount	33 - 34	We request that 'mobilization advance PBG' validity may be kept up to 10% GPs are commissioned i.e., start of O&M,	No change
716	3. General Conditions of Contract	3.17 Payment Terms	Payment against material for milestone: 3. Commissioning of GPs in a month - 15% payment of supplied material consumed in commissioning in previous month 4. Start of O&M - 5% payment of supplied material consumed in commissioning of GPs.	33 - 34	We suggest that kindly delink the supply payment from consumption and or Installation & Commissioning	no change
717	1	5	Summary of work to be performed through EPC vendor on turnkey basis in Andhra Pradesh:	5 & 8	1. We kindly request you to provide Block wise list of GPs, Pops along with their Lat-Long Details in order to have proper knowledge of site conditions and accessibilities. 2. Also, As per the summary list, the total nos. of GPs are 12746 whereas total nos of PoPs are 13416. Please clarify the distribution of Nos. of GP MPLS router to be considered.	The details of GPs along with LAT-LONG shall be provided at the time of signing of contract.
718	2	7	Installation and commissioning of all Point of Presence (PoP) equipment and accessories as per Bill of Material	5 & 8	1. We kindly request you to provide Block wise list of GPs, Pops along with their Lat-Long Details in order to have proper knowledge of site conditions and accessibilities. 2. Also, As per the summary list, the total nos. of GPs are 12746 whereas total nos of PoPs are 13416. Please clarify the distribution of Nos. of GP MPLS router to be considered.	The details of GPs along with LAT-LONG shall be provided at the time of signing of contract.
719	Section 6 Scope of Work	6.4 1	Operation Support Service Provide 10-seater capacity support centre, initially manned by 9 personnel (3*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the Network Infrastructure defined in the scope of RFP at both NOC locations.	53-54	Request you to remove mandatory manpower clause and remove this part. PIA is already bound by SLA & Penalties.	Provide 10-seater capacity support centre, initially manned by 15 personnel (5*3 Shift basis) on a three-shift basis during agreed service period window for reporting user incidents/issues/problems with the Network Infrastructure defined in the scope of RFP at both NOC locations. Any additional manpower shall be provided by the bidder as per mutually agreed terms & conditions at the time of request.
720	7.1.2 Liquidated Damages	3.9 Work to be completed by the Scheduled Completion Date	7.1.2 Penalties shall be capped to maximum of 10% of total cost of Project (excluding O&M cost) Value. Beyond 10% the Purchaser has the right to terminate the contract or a portion or part of the work thereof 3.9.4 0.5% implementation cost of GP's delayed each week, up to 13 week 0.7% implementation cost of GP's delayed for each week, up to another 13 week	56 29-30	We suggest to keep the quantum of LD as follows: Penalties shall be capped to maximum of 5% of total cost of Project (excluding O&M cost) Value. 0.25% implementation cost of GP's delayed each week, up to 13 week 0.5% implementation cost of GP's delayed for each week, up to another 13 week	No change
721	7.1.2 Liquidated Damages	3.9 Work to be completed by the Scheduled Completion Date	7.1.2 Penalties shall be capped to maximum of 10% of total cost of Project (excluding O&M cost) Value. Beyond 10% the Purchaser has the right to terminate the contract or a portion or part of the work thereof 3.9.4 0.5% implementation cost of GP's delayed each week, up to 13 week 0.7% implementation cost of GP's delayed for each week, up to another 13 week	56 29-30	We suggest to keep the quantum of LD as follows: Penalties shall be capped to maximum of 5% of total cost of Project (excluding O&M cost) Value. 0.25% implementation cost of GP's delayed each week, up to 13 week 0.5% implementation cost of GP's delayed for each week, up to another 13 week	Please Refer Corrigendum
722	General	General	Theft and Vandalism	General	During such cases of thefts and vandalism, material for replacement and service cost for reinstallation/reconfiguration will be borne by APSFL	Clause is Self-Explanatory
723	General	General	FIR in theft cases	General	Pls clearly specify who will file the FIR in case of theft. Nothing is mentioned in RFP regarding FIR.	PIA
724	General	General	NOC Infra Maintenance	General	Please clarify, who will take care Facility Management in DC/DR NOC premises ?	PIA
725	General	General	Bandwidth Provision of 1Gbps at GP level	General	There is no SOR items for Bandwidth ; Also for NOC to Cloud DC bandwidth is required ; It is better to have separate SOR Line items for the same.	No change
726	General	General	Theft and Vandalism	General	During such cases of thefts and vandalism, material for replacement and service cost for reinstallation/reconfiguration will be borne by APSFL	Clause is Self-Explanatory
727	General	General	FIR in theft cases	General	Pls clearly specify who will file the FIR in case of theft. Nothing is mentioned in RFP regarding FIR.	PIA

728	General	General	Bandwidth Provision of 1Gbps at GP level	General	There is no SOR items for Bandwidth - Also for NOC to Cloud DC bandwidth is required - It is better to have separate SOR Line items for the same.	No change
729	E. Project Experience	E	The Lead bidder should have an install base of at least 200 IP/MPLS edge/ aggregation/core routers along with establishment of POP locations with rack and UPS, which should be working satisfactorily for over one year and out of these, a minimum of 100 IP-MPLS edge/ aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	page 15,16	Request to relax the clause as large turnkey projects above 30cr which includes supply and maintains of aggregation edge/ aggregation/core routers along with establishment of POP locations with rack and UPS.	No change
730	2	2.2.2 (1)	Company Profile of all participating companies: Self-declared profile as per the format-9		We understand that company profile of only Bidder/lead bidder and consortium partner (if any) need to be provided. Please confirm.	Yes
731	3.1	11.1.15 Firewall	Inspect encapsulated traffic include:			
732	7	11.1.1 Master Block/Mandal Hub Node	Proposed router should support switching capacity of at least 3 Tbps. full duplex		Proposed router should support switching capacity of at least 6 Tbps. full duplex	Please Refer Corrigendum
733	7	11.1.2 - Block/ IP MPLS Node	Proposed router should support switching capacity of at least 900Gbps Full Duplex		Proposed router should support switching capacity of at least 300Gbps Full Duplex	Please Refer Corrigendum
734	8	11.1.2 - Block/ IP MPLS Node	All ports in the proposed router's total forwarding performance should be 400 MPPS or more		All ports in the proposed router's total forwarding performance should be 300 MPPS or more	Please Refer Corrigendum
735	8	11.1.2 - Block/ IP MPLS Node	All ports in the proposed router's total forwarding performance should be 400 MPPS or more		All ports in the proposed router's total forwarding performance should be 300 MPPS or more	Please Refer Corrigendum
736	12	11.1.1 Master Block/Mandal Hub Node	The Proposed router should have capability to add CG-NAT features with at least 20 million translations with additional cards in future		The Proposed router should have capability to add CG-NAT features with at least 60 million translations with additional cards in future	No change
737	12	11.1.2 - Block/ IP MPLS Node	The proposed router should support the following: a. 256,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack		The proposed router should support the following: a. 64,000 MAC Addresses b. 128,000 IPv4 unicast routes c. 32,000 IPv6 routes d. 4,000 multicast routes e. 4 labels in label stack	No change
738	12	11.1.2 - Block/ IP MPLS Node	The proposed router should support the following: a. 256,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack		The proposed router should support the following: a. 64,000 MAC Addresses b. 128,000 IPv4 unicast routes c. 32,000 IPv6 routes d. 4,000 multicast routes e. 4 labels in label stack	No change
739	14	11.1.1 Master Block/Mandal Hub Node	The proposed router should support the following: a. 10,00,000 MAC Addresses b. 2,000,000 IPv4 unicast routes c. 1,000,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack		The proposed router should support the following: a. 40,00,000 MAC Addresses b. 3,000,000 IPv4 unicast routes c. 1,500,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack	Please Refer Corrigendum
740	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node	Additional Point		Core routers are used for label operations and therefore 256K MPLS Label must be configured from day1.	Please refer Corrigendum
741	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No. 4	The proposed router should support AC and DC power AC Voltage range: AC: 90 V AC to 290 V AC, DC Voltage range: -40v -72V		The proposed router should support AC and DC power AC Voltage range: AC: 180 V AC to 260 V AC, DC Voltage range: -40v - 72V	Please refer Corrigendum
742	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No. 6	The proposed router should be configured and populated with 40X10G, 4X 100G, 24 X 1G On Day 1 & expandable to 8 X 100G in future. The Network side 2X 100G ports should support 80KM optics and the User side 2X100G ports should support at least 40KM optics. The user side and network side 100G ports should be configured on separate slots. Router should be configured with At least 2 Free slots for future expansion.		Router should be configured with At least 2 Free slots for future expansion.Slot Definition: Means a main slot on the router chassis. Only a main slot on the router chassis shall be counted to fulfill any tender requirements for number of free slots (no sub-slot or daughter slot shall be considered as "Slot")	Please refer Corrigendum
743	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No. 6	The proposed router should be configured and populated with 40X10G, 4X 100G, 24 X 1G On Day 1 & expandable to 8 X 100G in future. The Network side 2X 100G ports should support 80KM optics and the User side 2X100G ports should support at least 40KM optics. The user side and network side 100G ports should be configured on separate slots. Router should be configured with At least 2 Free slots for future expansion.		The Proposed Router should be configured with 48X10G, 4X 100G, 24 X 1G On Day 1 & expandable with 2 X 100G in future. The Network side 2X 100G ports should support 80KM optics and the User side 2X100G ports should support atleast 40KM optics. The user side and network side 100G ports should be configured on separate slots. Slot Definition: Means a main slot on the router chassis. Only a main slot on the router chassis shall be counted to fulfill any tender requirements for number of free slots (no sub-slot or daughter slot shall be considered as "Slot").	Please refer Corrigendum
744	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No.12	The Proposed router should have CG-NAT features supporting at least 20 million translations with all required cards and licenses should be configured from day1		The Proposed router must support CG-NAT features with at least 24 million simultaneous sessions. All required cards and licenses should be configured from day1	no change
745	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No.2	The proposed router should be of modular design with: redundant controller cards - power supplies in 1+1 or N+1 redundancy and failure of controller card should not impact per slot throughput.		The proposed router should be of modular design with: - redundant controller cards, Fabric Cards - power supplies in 1+1 or N+1 redundancy and failure of controller card and fabric card should not impact per slot throughput. Master block router should provide independent fabric cards to enhance core layer reliability. Controller cards and fabric cards should be physically separately provided.	no change
746	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No.20	Proposed router should be at least CE 2.0 Certified on all interfaces		CE 2.0 Certificate is a Carrier Ethernet forum Certificate to ensure the solution follows the CE framework for IP MPLS and OAM. Suggest changing the clause as Proposed router should be at least CE 2.0 Certified. CE 2.0 on all interfaces is only certified by a specific OEM(Cisco). Also as industry standard Practice, CE 2.0 is required on Box level rather than each interface level.	Please refer Corrigendum
747	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No.32	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring		all support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON /XML /NETCONF/Equivalent for router management and monitoring	Please refer Corrigendum
748	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.1 Master Block/Mandal Hub Node , S.No.7	Proposed router should support switching capacity of at least 10 Tbps. full duplex		The router switching capacity should be at least support up to 21.6Tbps.	no change
749	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.10 Core MPLS Router S No. 2 Performance	The proposed router should have 12 GB DRAM and 8GB Flash, also should support 30GB storage in SSD		Different OEMs have different Product architectures and file systems, and hence the need for memory is different for each OEM. Its prudent to go by performance specification required in RFP and Suggest changing the clause as Router should support Optimum flash and RAM capacity to achieve desired performance.	Please refer Corrigendum
750	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.10 Core MPLS Router S No. 6 Management	Video Monitoring: The proposed routers should have capability to check quality of the video traffic transiting through the router. The video monitoring function shall work on both IP and MPLS enabled interfaces and it should be able to measure quality metrics such as delay, jitter, MPEG M DI (RFC 4445), Media Stop Event for an compressed and compressed video formats (MPEG)		The objective of this clause is to have tight quality check on delay and jitter. Suggest changing the clause as The proposed routers should have capability to check quality metrics such as delay, jitter.	Please refer Corrigendum
751	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.10 Core MPLS Router S No. 8 Management	The Router should support the following programmability features: The router should support RFC 6020, YANG models The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices, RFC 6241 The solution should support an Architecture for Network Management Using NETCONF and YANG defined in RFC 6244. The router should support Netconf interface for device configuration		While keeping the management requirement intact, Its suggested to change this clause as below: <ul style="list-style-type: none"> The router should support, YANG models/Netconf that provides mechanisms to install, manipulate, and delete the configuration of network devices. The solution should support an Architecture for Network Management Using NETCONF/ YANG The router should support Netconf interface for device configuration	Please refer Corrigendum

752	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No. 3 Layer 2 Features	Switch must support spine - leaf topology based on VXLAN and create large layer 2 domain to optimize east - west traffic within the data center to achieve the following - a) Participation of Hypervisor switches in spine-leaf architecture as virtual leaves b) support a minimum of 16,000 segment ID to support secure multi-tenancy at the time of the bid submission	With no Fixed Hypervisor Switch Model or Architecture defined, Its Suggest changing clause as switch should support Leaf Spine Architecture based on VXLAN	Please refer Corrigendum
753	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No. 3 Layer 2 Features	Switch must support IEEE 802.1BR (Bridge Port Extension) or equivalent technology which in turn enable remote line card functionality to optimize cabling inside the data center	IEEE 802.1BR is primarily intended towards switching fabric extension and the scope of this deployment is not foreseen in this network. Also there are equivalent methods of extending the switching fabric if there is such need. Suggest removing the clause or making it optional.	Please refer Corrigendum
754	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No. 3 Layer 2 Features	The switch must support a minimum of 24 remote line card and scale up to 32 remote line cards in future	Suggest changing clause as Switch should support In band and Out band management	Please refer Corrigendum
755	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No.10 Environment	Operating temperature: -5 to 40 degrees	Since switch is going to be installed in an AP environment hence suggest changing clause as Operating temperature 0 to 40 Centigrade	no change
756	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No.8 Security	Should support AAA, with CHA P, PAP, MS-CHAP and MS-CHAP v2. It must support LDAP, RADIUS and TACACS+ protocol as well	Suggest changing clause as Should support AAA, RADIUS and TACACS+ protocols.	Please refer Corrigendum
757	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No.8 Security	The switch should support control plane policing to filter the unwanted traffic to fill up the CPU queues. The switch should support user configurable Control Plane Policing (CoPP)	Suggest removing the clause	Please refer Corrigendum
758	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.11 Core Switch S.No.9 Power	Redundant power supplies operating at 210-240v AC	Suggest Changing clause as Redundant power supplies operating at 100-240v A	no change
759	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.12 Automation & Orchestration platform S.No. 26	The configuration module shall support recover back feature in case all the components involved in configuration are not able to be configured due to any reason	Suggest The configuration module shall support restore back feature in case all the components involved in configuration are not able to be configured due to any reason	Please refer Corrigendum
760	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.12 Automation & Orchestration platform S.No. 28	It shall be possible to discover all the existing services including all the service parameters from the network.	It shall be possible to discover services in the scope of this RFP	no change
761	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.12 Automation & Orchestration platform S.No. 38	Same Orchestrator should be able to support Virtual network functions as well as physical network function	Not relevant IP WAN network suggest to delete	no change
762	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.12 Automation & Orchestration platform S.No. 9	The Orchestrator should provide capabilities rollback configurations using a single command	Suggest The Orchestrator should provide capabilities restore configurations using a single command	Please refer Corrigendum
763	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.2 Block/Mandal MPLS Node	Additional Point	Only a main slot on the router chassis shall be counted to fulfill any tender requirements for number of free slots (no sub-slot or daughter slot shall be considered as 'Slot').	no change
764	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.2 Block/Mandal MPLS Node , S.No 38	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF/Equivalent for router management and monitoring	Please refer Corrigendum
765	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.2 Block/Mandal MPLS Node , S.No 4	The proposed router should support AC and DC power AC Voltage range: AC: 90 V AC to 240 V AC, DC Voltage range: -40v -72V	The proposed router should support AC and DC power AC Voltage range: AC: 180 V AC to 260 V AC, DC Voltage range: -40v -72V	Please refer Corrigendum
766	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.2 Block/Mandal MPLS Node , S.No 7	Proposed router should support switching capacity of at least 800 Gbps Full Duplex	The proposed Router should have Switching capacity of atleast 1240 GBPS. (Logic : 4*100G+20*10G+20*1G=620G, switching capacity should not less than 1240 Gbps.) Ambient temperature to be changed to 45 degrees C	no change
767	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.3 GP IP MPLS Node , S.N 4	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP-)(Upgradable to 6x10G) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1	It is suggested that The proposed router should support minimum of the following ports: 4 x 10 GE (SFP-)(Upgradable to 6x10G) + 14 x 1G(SFP) + 6x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper ports Populated from DAY 1	Please refer Corrigendum
768	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.3 GP IP MPLS Node , S.N 5	Proposed router should support switching capacity of at least 64 Gbps full duplex	Switching Capacity = 160 Gbps (Logic : 6*10G+20*1G=80G, so switching capacity should not less than 160 Gbps.)	Please refer Corrigendum
769	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.3 GP IP MPLS Node , S.N 9	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack	Should support at least the following: a. 256K MAC Addresses b. 256K IPv4 unicast routes c. 32K IPv6 routes d. 4K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack	no change
770	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.3 GP IP MPLS Node , S.N36	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF for router management and monitoring	Shall support standard model driven telemetry mechanism through Yang model (RFC 6020) / JSON / XML /NETCONF/Equivalent for router management and monitoring	Please refer Corrigendum
771	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.6 EMS Software S.No.29	The system should be able to create performance reports and Alarm reports. These reports shall be HTML or pdf which can be dynamically generated and sent over e-mail.	Suggest: The system should be able to create performance reports and Alarm reports. These reports shall be HTML or pdf	no change
772	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.6 EMS Software S.No.32	Proposed EMS/NMS must be an industry standard, enterprise grade COTS (Commercially of the Shelf) product that has at least 1 deployments in Indian Government/ Public Sector, monitoring & managing 5000+ network nodes in each of such deployments. Names must be mentioned at the time of bidding	The required PO is OEM Specific and only Cisco can be compiled. We suggest that in order to have a level playing field and increase participation. We suggest Proposing EMS/NMS must be an industry standard, enterprise grade COTS (Commercially of the Shelf) product that has at least 1 deployments in Indian Government/ Public Sector/Telecom Sector (Private or Public), monitoring & managing 4000 network nodes in such deployments. The Proposed EMS should be able to Manage the required number of nodes in this RFP. Names must be mentioned at the time of bidding	Please refer Corrigendum
773	2.1 Annexure A: Technical Specifications Corrigendum 3	2.1.6 EMS Software S.No.33	Proposed EMS/NMS must be an industry standard and proposed helpdesk under EMS must follow the ITIL Process	Suggest to delete as requisite specifications for EMS are already sufficient for a quality EMS. Also, The Helpdesk is already in OSS/BSS Scope as per current RFP.	Please refer Corrigendum
774	2.1.1 - Master Block/Mandal Hub Node	1	Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing	Proposed router should support the following environmental condition: Temperature: 0 to 40 operating temperature and environment Relative humidity: 5 to 85% non-condensing	Please refer Corrigendum
775	2.1.1 - Master Block/Mandal Hub Node	14	The proposed router should support the following: a. 20,00,000 MAC Addresses b. 2,000,000 IPv4 unicast routes c. 1,000,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack	The proposed router should support the following: a. 20,00,000 MAC Addresses b. 4,000,000 IPv4 unicast routes c. 2,000,000 IPv6 routes d. 100,000 multicast routes e. 5 labels in label stack	no change
776	2.1.1 - Master Block/Mandal Hub Node	15	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labeled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN,PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 128 MPLS VPN instances, 2048EoMPLStunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labeled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN,PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 4000 MPLS VPN instances, 60,000 EoMPLStunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN	Please refer Corrigendum

777	2.1.1 - Master Block/Mandal Hub Node	20	Proposed router should be at least CE 2.0 Certified on all interfaces		Proposed router should be at least CE 2.0 Certified on 100 G interfaces	Please refer Corrigendum
778	2.1.1 Network Racks specifications	2.4	Front door shall be glass door with electronic lock		Word Electronic Locking may be interpreted as Electromagnetic locks, Solenoid Locks and alike. These locks involve electromagnets which are not recommended for the IT Infrastructure.	no change
779	2.1.1 Network Racks specifications	3.1	Smart card reader (with relevant software along with licenses if needed) Integrated Electronic door lock should have digital locking to permit only authorized persons to open the doors through either Smart Card (ISO/IEC 14443 Type A 13.56 MHz) or Mobile NFC.		Once again, Integrated Electronic Lock may be interpreted as undesired locking systems as mentioned above. Typically - all such electromagnetic solutions keep doors closed in the energised state and often allow the doors to become open in case of power failure. Besides - for such remote locations - Biometric Access Control is preferred and as per standard practice, there should be dual authentication like Biometric + Proximity Card and so on. In addition, remote opening of the door is a recommended feature as mentioned in the original tender specifications.	no change
780	2.1.1 Network Racks specifications	4.1	In case of any electronics failure in monitoring equipment, it should be possible to replace / service these displays without taking any downtime. (Should be hot pluggable / swappable)		It is very important to locally display all important parameters like current drawn, rack temperatures and RH. So that the person in side the DC area is fully aware of the status.	no change
781	2.1.1 Network Racks specifications	4.2	Hooter for the Extreme Alarm Conditions		Monitoring of the same parameters over IP is definitely required over IP.	no change
782	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	2.4	Front door shall be glass door with electronic lock		Word Electronic Locking may be interpreted as Electromagnetic locks, Solenoid Locks and alike. These locks involve electromagnets which are not recommended for the IT Infrastructure.	Clause is self explanatory
783	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	3.1	Smart card reader (with relevant software along with licenses if needed) Integrated Electronic door lock should have digital locking to permit only authorized persons to open the doors through either Smart Card (ISO/IEC 14443 Type A 13.56 MHz) or Mobile NFC.		Once again, Integrated Electronic Lock may be interpreted as undesired locking systems as mentioned above. Typically - all such electromagnetic solutions keep doors closed in the energised state and often allow the doors to become open in case of power failure. Besides - for such remote locations - Biometric Access Control is preferred and as per standard practice, there should be dual authentication like Biometric + Proximity Card and so on. In addition, remote opening of the door is a recommended feature as mentioned in the original tender specifications.	no change
784	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.2	640x480 resolution camera to capture visuals whenever Door opens and send to the NOC		This feature is recommended to be part of the access control solution so that every access event is captured with the picture of the person accessing it in the log it self - as per original tender specifications. It is quite necessary to provide clear pictures of 1.3MP so as to recognise face - once again - as mentioned in your original tender specifications.	Please refer Corrigendum
785	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	4.4	Wet Sensor to detect flood water		It should ideally be Water Leak Detector and not the Flood Water Detector so that an early warning is available.	no change
786	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	8.1	The Rack should have ventilated rear and side doors to provide adequate airflow required by the major server manufacturers.		Vented Side and Rear doors in racks with integrated cooling? It will not facilitate functionality of the air-conditioner.	no change
787	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	8.3	Air-condition should work on UPS even AC mains fails		It is not a desired practice to drain UPS with AC Running on it... Sizing of the UPS and related parameters should be evaluated.	Please refer Corrigendum
788	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	8.4	Shall have 300Watt Air-condition unit mountable at rear door		Primarily - only 300W of cooling capacity should be evaluated. Air-conditioning on rear door may not be feasible at all locations as there may be lesser space towards the rear of the rack. All these sites will have possibly a challenge to facilitate fresh air in the rear side of the door.	Please refer Corrigendum
789	2.1.1.2 Master Block Network Racks & Block Network Racks (With Air Conditioned)	9.3	The rack should comply minimum of IP 20 rating.		With Air-condition - IP20 Rating is not practical... There seems to be some error. It has to be minimum IP 54 to retain the cold air circulation within the rack.	no change
790	2.1.2 - Block/ IP MPLS Node	2	The proposed router should be of modular design with: redundant control cards - power supplies in 1+1 or N+1 redundancy and failure of control card should not impact per slot throughput.		The proposed router should be of modular design and support Redundant power supplies	no change
791	2.1.2 - Block/ IP MPLS Node	3	The proposed router should support in service software upgrades without any impact on running services		The proposed router should support software upgrades without any impact on running services	no change
792	2.1.2 - Block/ IP MPLS Node	6	Router should have at least 4x100GE ports should be distributed among different slots, at least 20x10GE ports should be distributed among different slots, at least 20x1GE ports should be distributed among different slots for better redundancy.		Router should support at least 8x100GE ports , at least 20x10GE ports , at least 20x1GE ports	Please refer Corrigendum 4
793	2.1.2 - Block/ IP MPLS Node	7	Proposed router should support switching capacity of at least 800 Gbps Full Duplex		Proposed router should support switching capacity of at least 900 Gbps Full Duplex	no change
794	2.1.2 - Block/ IP MPLS Node	8	All ports in the proposed router's total forwarding performance should be 330 MPPS or more		All ports in the proposed router's total forwarding performance should be 700MPPS or more	no change
795	2.1.2 - Block/ IP MPLS Node	12	The proposed router should support the following: a. 512,000 MAC Addresses b. 250000 IPv4 unicast routes c. 120000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack		The proposed router should support the following: a. 128,000 MAC Addresses b. 250000 IPv4 unicast routes c. 120000 IPv6 routes d. 16,000 multicast routes e. 2 labels in label stack	Please refer Corrigendum
796	2.1.2 - Block/ IP MPLS Node	20	Proposed router should be at least CE 2.0 Certified		Proposed Router should be atleast CE 2.0 Certified or should be certified in 6 months of delivery	Please refer Corrigendum
797	2.1.2 - Block/ IP MPLS Node	21	Proposed router should support Eight No of hardware queues that are required for per port for flow treatment of traffic, Policy Based QoS, WRED, WFQ, 4 Level HQoS		Proposed router should support Eight No of hardware queues that are required for per port for flow treatment of traffic, Policy Based QoS, WRED, WFQ, 2 Level HQoS	no change
798	2.1.2 - Block/ IP MPLS Node	24	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 4 level HQoS		Proposed router should support QoS mechanism for end-to-end bandwidth and at least 2 level HQoS	Please refer Corrigendum
799	2.1.2 - Block/ IP MPLS Node	39	The routers shall provide hardware accelerated IETF Netflow or equivalent feature. This feature shall be available for all interfaces provisioned on the router with hardware acceleration		The routers shall provide hardware accelerated IETF Netflow or equivalent feature. This feature shall be available for all interfaces provisioned on the router	no change
800	2.1.2 Server Rack	4	Certifications, Environmental and Safety Requirements		Racks should be manufactured by ISO 9001:2008, 18001-2007, Certified company	Please refer Corrigendum
801	2.1.2 Server Rack	4	Certifications, Environmental and Safety Requirements		Manufacturer must certify that the products are RoHS Compliance.	Please refer Corrigendum
802	2.1.2 Server Rack	4	Certifications, Environmental and Safety Requirements		Manufacturer must carry product safety conformities from UL 2416.	Please refer Corrigendum

803	2.1.3 - 4 - GP IP/MPLS Node: Type 1 GP 1000 Qty	4	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 6x10G) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 CopperPopulated from DAY 1		The proposed router should support minimum of the following ports: 10 x 10 GE (SFP+) + 12 x (SFP) + 4 x (RJ-45);Router should be Populated with 6 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper; Populated from DAY 1: Router should support 40G and 100G in Future	Please refer Corrigendum
804	2.1.3 - 4 - GP IP/MPLS Node: Type 1 GP 1000 Qty	9	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack		The proposed router should support at least the following: a. 64K MAC Addresses b. 100K IPv4 unicast routes c. 32K IPv6 routes d. 4K multicast routes e. 1,000 MPLS labels f. 4 labels in label stack	No change
805	2.1.3 - 4 - GP IP/MPLS Node: Type 1 GP 1000 Qty	16	Proposed Router should be at least CE 2.0 Certified		Proposed Router should be atleast CE 2.0 Certified or should be certified in 6 months of delivery	Please refer Corrigendum
806	2.1.3 - 4 - GP IP/MPLS Node: Type 1 GP 1000 Qty	17	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 3 levelHQOS		Proposed router should support QoS mechanism for end-to-end bandwidth and at least 2 levelHQOS	no change
807	2.1.3 - GP IP/MPLS Node: Type 2 GP Router 11800 Qty	4	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 6x10G) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 CopperPopulated from DAY 1		The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 6x10G) + 16 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 CopperPopulated from DAY 1	Please refer Corrigendum
808	2.1.3 - GP IP/MPLS Node: Type 2 GP Router 11800 Qty	9	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack		The proposed router should support at least the following: a. 16K MAC Addresses b. 20K IPv4 unicast routes c. 4K IPv6 routes d. 2K multicast routes e. 500 MPLS labels f. 4 labels in label stack	No change
809	2.1.3 - GP IP/MPLS Node: Type 2 GP Router 11800 Qty		New Clause		The proposed router should support egress queuing and should support 10 Mb buffer	no change
810	2.3.1	Qualification Criteria for System Integrators				
811	Corrigendum-2: 2.1.1 Master Block/Mandal Hub Node	1	Proposed router should support the following environmental condition: Temperature: 0 to 45 operating temperature and environment Relative humidity: 5 to 85% non-condensing		Core/High capacity Routers are always placed in controlled environment of 5 to max 40" to get maximum optimize efficiency. Therefore we request you to kindly change the clause to the following: "Proposed router should support the following environmental condition: Temperature: 5 to 40" operating temperature and environment Relative humidity: 5 to 85% non-condensing"	Please refer Corrigendum
812	Corrigendum-2: 2.1.1 Master Block/Mandal Hub Node	7	Proposed router should support switching capacity of at least 10 Tbps. full duplex		The number of interfaces asked at day1 in the RFP are not more than 900 Gbps(4 x 100 G + 40 x 10 G + 24 x 1 G SFP) in total. Considering scalability for future expansion (4 x 100G) will increase the requirement to 1.3Tbps. Even 2500 Mpps requirement mentioned in the subsequent Clause#8 is corresponding to 1.8 Tbps system capacity. 10 Tbps router will unnecessarily increase the cost of project. Therefore we request to kindly modify the clause to the following: "Proposed router should support switching capacity of at least 2 Tbps. full duplex"	no change
813	Corrigendum-2: 2.1.1 Master Block/Mandal Hub Node	20	Proposed router should be at least CE 2.0 Certified on all interfaces		OEMs keep on adding new platforms to their portfolio and getting CE2.0 is a time consuming process. There is a requirement in the RFP for long term support from the OEMs for the proposed equipment. To meet this requirement, All OEMs would prefer to quote latest products. Moreover, This clause is limiting OEMs' participation in the bid. We request to change the clause to the following: "Proposed router should be at least CE 2.0 compliant on all interfaces and bidder is allowed to submit CE 2.0 certificate at the time of supply"	Please refer Corrigendum
814	Corrigendum-2: 2.1.10 Core Switch	3	Switch should support 8K IGMP Group and scalable to 32K Group with/without Multi chassis ether channel (MCEC) deployment.		The scaling numbers asked for Core Switch Node is very high. Core router would not be used to terminate large scale MACSec traffic. Asked scale will increase overall cost of the project heavily. We request to optimise this values as per following recommendations: " Switch should support 2K IGMP Group and scalable to 4K Group with/without Multi chassis ether channel (MCEC) deployment."	no change
815	Corrigendum-2: 2.1.10 Core Switch	3	The switch must support a minimum of 24 remote line card and scale up to 32 remote line cards in future.		Day-1 requirement as well as future scalability requirement have been already mentioned in the RFP. There's no need for additional remote line cards. This is vendor specific. Hence, we request you to remove the clause.	Please refer Corrigendum
816	Corrigendum-2: 2.1.10 Core Switch	4	Switch should support 8K Multicast route and scalable to 32K Route with/without Multi chassis ether channel (MCEC) deployment.		The scaling numbers asked for Core Switch Node is very high based on requirement (2K is sufficient for IGMP Group) . Asked scale would push all the OEMs to quote bigger routers at Node, which will increase overall cost of the project heavily. We request you to optimise this values as per following recommendations " Switch should support 2K Multicast route and scalable to 4K Route with/without Multi chassis ether channel (MCEC) deployment. "	no change
817	Corrigendum-2: 2.1.2 Block/Mandal IP/MPLS Node	12	The proposed router should support the following: a. 512,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 16,000 multicast routes e. 5 labels in label stack		16000 multicast routes and 512,000 MAC address scale requirement is on higher side. It is observed that even in a large Service Provider network, Not more than 1000-1500 multicast routes and 200K MAC are required in aggregation layer. Asking for such a large number of multicast routes and MAC addresses will push the OEMs to quote a bigger router and will escalate the overall cost of the project. Therefore we request to change this clause to the following: "The proposed router should support the following: a. 250,000 MAC Addresses b. 250,000 IPv4 unicast routes c. 120,000 IPv6 routes d. 4,000 multicast routes e. 5 labels in label stack"	Please refer Corrigendum
818	Corrigendum-2: 2.1.2 Block/Mandal IP/MPLS Node	20	Proposed router should be at least CE 2.0 Certified		OEMs keep on adding new platforms to their portfolio and getting CE2.0 is a time consuming process. There is a requirement in the RFP for long term support from the OEMs for the proposed equipment. To meet this requirement, All OEMs would prefer to quote latest products. Moreover, This clause is limiting OEMs' participation in the bid. We request to change the clause to the following: "Proposed router should be at least CE 2.0 compliant on all interfaces and bidder is allowed to submit CE 2.0 certificate at the time of supply"	Please refer Corrigendum
819	Corrigendum-2: 2.1.2 Block/Mandal IP/MPLS Node	21	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 4 level HQOS		In Master Block 4 level HQOS has been asked which has to function as BNG also, where as in Block Node 4 level HQOS has been requested which is to function as Transport router only. For aggregation router, 3 level HQoS is sufficient. Kindly modify the clause as "Proposed router should support QoS mechanism for end-to-end bandwidth and at least 3 level HQOS"	Please refer Corrigendum

820	Corrigendum-2: 2.1.3 GP IPMPLS Node	4	The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+)(Upgradable to 6x10G) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1		Access Routers are fixed configuration boxes and are non-upgradable for most of the OEMs. Moreover, the port requirement is favoring specific OEM. Also, 24x1G + 6x10G = 84 Gbps line rate performance will be required and not 64 Gbps as asked in "2.1.3 GP IPMPLS Node - Clause # 5". Hence, we request you to change this to following: "The proposed router should support minimum of the following ports: 4 x 10 GE (SFP+) + 20 x 1G(SFP) + 4x (RJ-45) Router should be Populated with 4 x 10 G 40 Kms, 10 x 1 G SFP 10 Kms and 4 x 10/100/1000 Copper Populated from DAY 1"	Please refer Corrigendum
821	Corrigendum-2: 2.1.3 GP IPMPLS Node	9	The proposed router should support at least the following: a. 64K MAC Addresses b. 64K IPv4 unicast routes c. 32K IPv6 routes d. 2K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack		The scaling numbers asked for GP IPMPLS Node are very high based on requirement. Asked scale would push all the OEMs to quote bigger routers at GP IPMPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values as per following recommendations "The proposed router should support at least the following: a. 50K MAC Addresses b. 30K IPv4 unicast routes c. 12K IPv6 routes d. 1K multicast routes e. 1,000 MPLS labels f. 3 labels in label stack"	no change
822	Corrigendum-2: 2.1.3 GP IPMPLS Node	10	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PW3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 100 MPLS VPN Instances, 2048EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE.		The EoMPLS scaling numbers asked for GP IPMPLS Node are very high for such a small routers. Asked scale would push all the OEMs to quote bigger routers at GP IPMPLS Node, which will increase overall cost of the project heavily. We request you to optimise these values based on the actual requirements and modify the clause as "a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNs: 6PE/6VPE, L3 VPN, PW3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 512 EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing /Segment Routing TE/Seamless MPLS"	no change
823	Corrigendum-2: 2.1.3 GP IPMPLS Node	16	Proposed router should be at least CE 2.0 certified		OEMs keep on adding new platforms to their portfolio and getting CE2.0 is a time consuming process. There is a requirement in the RFP for long term support from the OEMs for the proposed equipment. To meet this requirement, All OEMs would prefer to quote latest products. Moreover, this clause is limiting OEMs' participation in the bid. We request to change the clause to the following: "Proposed router should be at least CE 2.0 compliant on all interfaces and bidder is allowed to submit CE 2.0 certificate at the time of supply"	Please refer Corrigendum
824	Corrigendum-2: 2.1.3 GP IPMPLS Node	17	Proposed router should support QoS mechanism for end-to-end bandwidth and at least 3 level HQoS		For access router, 2 level HQoS is sufficient. Kindly modify the clause as "Proposed router should support QoS mechanism for end-to-end bandwidth and at least 2 level HQoS"	no change
825	Corrigendum-2: 2.1.3 GP IPMPLS Node	28	The Router should support the following programmability features: • The router should support Netconf interface for device configuration • The router should support Openconf or IETF based YANG models • The solution should support the network configuration protocol (NETCONF) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF and YANG models		YANG Models is fairly new concept YANG model is still experimental and not fully developed by any OEM and approved by IETF, we request APfiber to consider other option as well which is SNMP/RESTAPI/XML. In view of the above, we request APfiber to Modify the clause as "The Router should support the following programmability features: • The router should support Netconf interface/SNMP/RESTAPI/XML for device configuration • The router should support Openconf/IETF based YANG models/SNMP/RESTAPI/XML • The solution should support the network configuration protocol (NETCONF/SNMP/RESTAPI/XML) that provides mechanisms to install, manipulate, and delete the configuration of network devices • The solution should support an Architecture for Network Management Using NETCONF/YANG models"	no change
826	Corrigendum-2: 2.1.3 GP IPMPLS Node	37	The routers shall provide hardware accelerated IETF Netflow or equivalent feature. This feature shall be available for all interfaces provisioned on the router with hardware acceleration.		Flow information is collected in any network at Aggregation/Core Layer. At access layer flow information is not required at all. Infact enabling flow information will unnecessarily load the CPU of router and will impact the forwarding performance. Hence, we request to remove the clause.	no change
827	Corrigendum-2: 2.1.9 Core IP MPLS Routers	2	The proposed router should have 12 GB DRAM and 8GB Flash, also should support 30GB storage in SSD		Storage requirement is fulfilled by different OEMs in different ways to achieve the same functionality. Thus kindly modify the clause as: "The proposed router should have 12 GB DRAM and 8GB Flash, also should support 30GB storage."	Please refer Corrigendum
828	Corrigendum-2: 2.1.9 Core IP MPLS Routers	2	Router should have 128k multi cast routes.		The scaling numbers asked for Core IP MPLS Routers 100 G Node is very high. The asked scale would limit the OEMs participation in the bid. We request to optimize scale as per following and allow maximum OEMs to participate in the bid which would lead to a competitive bidding. In a multicast implementation routes are summarized and in no circumstances a core router would need 128k multicast routes " Router should have 64k multicast routes. "	no change
829	Corrigendum-3 EMS Software: 2.1.6 (31) in Corrigendum 2	5	Proposed EMS/NMS must be an industry standard, enterprise grade COTS (Commercially of the Shelf) product that has at least 1 deployments in Indian Government/ Public Sector, monitoring & managing 5000+ network nodes in each of such deployments. Names must be mentioned at the time of bidding.		AP BBNL Ph-II is a carrier grade network. So, instead of Government/Public Sector references, telecom references are going to be more relevant. Hence, we request to change the clause to: "Proposed EMS/NMS must be an industry standard, enterprise grade COTS (Commercially of the Shelf) product that has at least 1 deployment in Indian Government/ Public Sector/Telco, monitoring & managing 5,000+ network nodes in that deployment. Names must be mentioned at the time of bidding.	No Change
830	General	Not Applicable			What is the scope of Fiber network (OFC) in this RFP and how it fits into overall RFP ? There is reference of OTDR but no specific requirement on Fiber network and its monitoring.	it is covered in ofc tender
831	General	Not Applicable			Towards the end of RFP, in abbreviation there is reference of OLT and ONT. However, there is no detail in the RFP. Is that section captured in separate requirement document ? Kindly clarify.	deleted
832	New	11.1.1 Master Block/Mandal Hub Node	Please Add		Broadband user session should not be dropped, in case of BNG node failure. Geo-Redundancy or similar redundancy Feature is mandatory	Please Refer Corrigendum
833	New	11.1.1 Master Block/Mandal Hub Node	Please Add		SNMP traps shall be sent when a configurable IP pool utilization threshold has been reached. This threshold shall be user-configurable and should support geo redundancy scenarios too	No change
834	new	11.1.2 - Block/ IP MPLS Node	please add		Please include LDP FRR, Remote Loop Free alternate and micro loop avoidance mechanisms to be supported as these enable	Please Refer Corrigendum
835	New	11.1.2 - Block/ IP MPLS Node	please add		The proposed router should have conformal coating	No change

836	New	11.1.3 - GP IP/MPLS Node	please add		The proposed router should have BITS and PPS in and out ports on the chassis to support external clock based timing reference	No change
837	New	11.1.3 - GP IP/MPLS Node	please add		The proposed router should support, LDP FRR, Remote Loop Free alternate mechanisms and micro loop avoidance mechanisms to have a better resiliency with sub 50 msec at access layer	Please Refer Corrigendum
838	New	11.1.3 - GP IP/MPLS Node	please add		The proposed router should support 10Mb buffer from day1.	No change
839		1.6	Bidder/s should be in business operation for at least 5 years in India as on date of the bid submission.		"The Sole Bidder or each of the Consortium members involving such Multi-national companies should be registered under Indian Companies Act 1956 or 2013 before the award of the contract" OR The consortium member or its subsidiary to be in business operations for at least 5 years in India as on date of the bid submission.	The requirement has been framed keeping in view the general tendering best practices and to allow the tendering / bidding firms a minimum vintage of existence and experience, of being engaged in executing similar business / projects in India. Diluting this clause, at a minimum, can imply impropriety in the tendering process and at the maximum also risk the project execution.
840		11.1.15 Firewall	Request to add		"Firewall should be in the Leaders Quadrant in latest Gartner Magic quadrant for Enterprise Firewall"	No Change
841		11.1.2 - Block/ IP MPLS Node	please add		Proposed router should support OoS mechanism for end-to-end bandwidth and at least 2 level HQoS	No change
842		11.1.2 - Zonal / Block/ IP MPLS Node	please add		The 100G and 200G interfaces should support DP-DQPSK, DP-8QAM and DP-16QAM modulation	No change
843		11.1.2 -Zonal/ Block/ IP MPLS Node	please add		The proposed router should support IpoDWDWM for 100Gig interfaces expandable to 200 G on DWDNM, should support LH w/ QPSK modulation.	No change
844		11.1.3 - GP IP/MPLS Node	a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNS: 6PE/6VPE, L3 VPN, PWE3, EoMPLS, VPLS / EVPN/H-VPLS. Min. 200 MPLS VPN instances, 2000EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE		a. Routing Protocols: Static, RIP, OSPF, ISIS and BGP. VRRP should also be supported b. MPLS: MPLS LDP, IP FRR, BGP Labelled Unicast, BGP PIC (Edge and Core), VPNS: 6PE, 6VPE, L3 VPN, PWE3, EoMPLS, VPLS, EVPN, H-VPLS. Min. 100 MPLS VPN instances, 2000 EoMPLS tunnels/VPLS instances should be supported d. Multicast: uRPF, PIM-SM, PIM-SSM, M-VPN, Segment Routing & Segment Routing TE. All these features should be enabled from Day 1, all necessary license to enable them should be supplied day 1.	Please Refer Corrigendum
845		A: General Eligibility : 2.3.1 Pre Qualification criteria for System Integrator	The Sole bidder/ all the consortium members shall be an Indian Registered company under the Company Act 1956 or 2013		"The Sole Bidder or each of the Consortium members involving such Multi-national companies should be registered under Indian Companies Act 1956 or 2013 before the award of the contract" OR The consortium member or its subsidiary to be registered under the Indian companies Act 1956 or 2013	No change
846		Cooling Requirement	Cooling Requirement			clause is Self-Explanatory
847		General	Termination by PIA		Please provide for a clause for termination by PIA due to breach/ insolvency of APSFL	No change
848		General	Repugnancy between Master Service Agreement and the General Conditions of Contract		Please clarify which document supersedes the other?	MSP
849		General	SLA Penalty CAP		Request to provide cap on SLA Penalty.	Clause is Self-Explanatory
850		General	Delay due to non performances of other packages under Bharatnet		We understand that the delay in execution or readiness of sites due to non availability of systems which shall be part of other package/ Contractors, shall not be considered for levying LD on PIA and accordingly suitable extension and cost shall be given to PIA.	Clause is Self-Explanatory
851			*OEM should be an established industry player in its respective domain like Networking, and IT (Server & storage) etc. and should be in Top Five position globally as per third party reports likes of Gartner's / Forester / IDC / OVUM / INFONETICS for each respective domain"		we would also request you to kindly clarify against your point whether same will be applicable to server/storage and san switches also for NOC (DC and DR) site or this would be excepted for IT hard ware.	Yes
852			Under Make in India, GoI Policy		<i>We would like to bring to your notice that Government of India has come up with a Gazette Preferential Market Access Policy vide notification no.8(78)/2010/IPHW dated 10th Feb,2012 which clearly mandates vide clause 2.2.2 that all central government funded projects would have to come under PMA policy. As per clause 3.0 of the DOT notification dated Oct 05, 2012 for providing Preference to Domestically manufactured Telecom products in Government procurement, National Optical Fibre Network (NOFN) which is renamed as Bharatnet is specially mentioned on which PMA should be applicable. In accordance to that, BSNL & BBNL has already implemented the PMA guidelines in all the tenders for Bharatnet Phase I and Phase II project. Additionally, Jharkhand and Gujarat have also floated tenders under Bharatnet and implemented PMA policy. In addition, the policy dated 23rd December, 2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience. In view of above, we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notifications</i> a. DoT notification No. 18-07/2010-IPdated 05 Oct 2012 b. Guidelines issued by DeITY vide No.8(78)/2010-IPHW dated 12Jun 2013. c. Notification issued by DeITY vide No.33(3)/2013-IPHW dated 23Dec 2013.	No change
853			Preferential Market Access (PMA) clause NOT defined in RFP		<i>in order to promote Make in India, government of India has come up with a Gazette Preferential Market Access Policy vide notification no.8(78)/2010/IPHW dated 10th Feb,2012 which clearly mandates vide clause 2.2.2 that all central government funded projects would have to come under PMA policy. As per clause 3.0 of the DOT notification dated Oct 05, 2012 for providing Preference to Domestically manufactured Telecom products in Government procurement, National Optical Fibre Network (NOFN) which is renamed as Bharatnet is specially mentioned on which PMA should be applicable. In accordance to that, BSNL & BBNL has already implemented the PMA guidelines in all the tenders for Bharatnet Phase I project. In addition, the policy dated 23rd December, 2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience. In view of above, we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notifications</i> a. DoT notification No. 18-07/2010-IPdated 05 Oct 2012 b. Guidelines issued by DeITY vide No.8(78)/2010-IPHW dated 12Jun 2013. c. Notification issued by DeITY vide No.33(3)/2013-IPHW dated 23Dec 2013. d. Guidelines issued by DeITY vide No.33(7)/2015-IPHW dated 16th November 2015.	No change
854			Annexure 1		For MPLS routers offered based on MPLS-TP the specifications from TEC GR TEC/GR/IT/CEN-004/03/MAR-17 should be applicable along with any relevant specifications from this tender that ensure equivalent Service and Equipment capabilities are being alternately offered. Please confirm.	No change

855					How and where UI will be placed as this is regulatory requirement.	No change
856			Tender No / NIT No.		NIT No. / Tender number for this RFP as well as tender floated by you for Appointment of Project Implementation Agency (PIA) for BharatNet Phase-II works to establish optical fiber network infrastructure in the state of Andhra Pradesh is same (though dates are different). This may create confusion/ conflicts in future. We, therefore request that one of the tenders may be given a different number.	No change. Dates are different
857			Backup of Application / OS / Database		Application/OS/Database instance backup is to be done by Backup Software and Tape Drive. However specification for same is not available and also not there is SOR	PIA shall provide Tape Library with two latest LTO drives and 8 cartridge slots, each at NOC and DR NOC along with Backup software.
858			General		Please share a RASCI matrix defining the roles and responsibilities of all the stake holders related to the project. This will help in ensuring the project execution is as per the timelines.	Please Refer Corrigendum
859					Bidder/Consortium can only bid with a single OEM for IP/MPLS Routers for GP, Block and Master Block. In case of Bidder/Consortium offering multiple OEM options for IP/MPLS routers at GP, Block and Master Block, such bids shall be rejected.	Clause is Self-Explanatory
860					OEM should have deployed similar solutions in at least five Service Providers in India/Globally	Please Refer Corrigendum
861					The OEM should have an aggregate installed base of at least 200 IP/MPLS edge / aggregation/ core routers which should be working satisfactorily for over one year. Of these, a minimum of 100 IP-MPLS edge / aggregation/ core routers should be deployed in India in one single network preferably in Government/ telco network.	Clause is Self-Explanatory
862					The aggregate installed base of Access routers deployed in India/Globally by the OEM should be at least 4,000, which should be working satisfactorily for over two years	Clause is Self-Explanatory
863					Does the GP router requires NAT feature?	Clause is Self-Explanatory
864			11 Downloadable access control lists for any Layer 3 device, including Routers, Firewalls, and VPNs -		Over what protocol? We will support RADIUS. Please specify if any other protocol is to be used/supported	Clause is Self-Explanatory
865			It should also provide dynamic quotas for time-of- day, network use, number of logged sessions, and day-of-week access restrictions.		What is the meaning here as all the given options (time-of-day, network use, number of logged sessions, and day-of-week access restrictions) are individual policies.	Clause is Self-Explanatory
866			Backup of Application / OS / Database		Application/OS/Database instance backup is to be done by Backup Software and Tape Drive. However specification for same is not available and also not there is SOR	No change
867			General		How Network from Master Block would be connected to Internet i.e. through either APFSL Ph1 network or through Internet Connectivity with ISP. Who will provision this internet connectivity and own OPEX. How NOC would be connected to APFSL Phase2 network i.e. through either APFSL Ph1 network or through Internet Connectivity with ISP. Who will provision this connectivity and own OPEX.	The connectivity part will be provided by APFSL
868			General		Whether integration is required with APFSL Phase 1 network. If yes, will this be point to point integration from Block to nearest Phase1 POP over overhead fibre. Please confirm.	Yes. Master Block to DHQ and Zonals, Block to Mandal, GP to edge PoP.
869			General		Please clarify whether PIA has to supply GSM SIM for all smart racks and bear opex for 7 years	Yes. PIA has to consider this in costing
870			General		Whether Rack level CCTV feed and NOC CCTV feed to be stored. If yes please clarify what is duration of storage..	Yes. The local storage at Smart Rack should be there for 6 months and NOC level for 3 months. CCTV footage at NOC needs to be maintained for at least 3 months with option to archive after that.