Corrigendum

Tender for Supply, Installation and commissioning of Local Area Network and minor electrical work at Hospitals (4 Nos Premier Hospitals,3 Nos MCHs and 73 UPHCs) under the OeHMIS Project

REF NO: OCAC-SEGP-SPD-0015-2021-22081

SL#	Clause	Existing Clause	Revised Clause
1	Page No-13 , Clause No-2, under 3.1. Pre-Qualification (PQ) – Cum- Technical Criteria (Average Sales Turnover)	Annual average Turnover Minimum of Rs. 2 Crore generated from IT/ITeS any last three Financial years i.e : FY 2021-22, 2020-21, and FY 2019-20	Annual average Turnover Minimum of Rs. 1 Crore generated from IT/ITeS any last three Financial years i.e : FY 2021-22, 2020-21, and FY 2019-20
2	Page No-13 , Clause No-3, under 3.1. Pre-Qualification (PQ) – Cum- Technical Criteria (Technical Capability)	Bidder must have successfully undertaken at least the following numbers IT Networking supply and associated maintenance services of value specified herein during the last five years as on 31.12.2022 for any Govt./PSU/Autonomous body in India. • One project of similar nature not less than the amount Rs. 3.2 Crore; OR • Two projects of similar nature each of which not less than the amount Rs. 2.4 Crore; OR •Three projects of similar nature each of which not less than the amount Rs. 1.6 Crore. **'Similar Nature'** is defined as , Supply, installation and maintenance of IT hardware & System Networking like Switch's, Servers, Network & Security devices, & other IT devices amongst others for government/ public sector enterprises in India	Bidder must have successfully undertaken or in process of execution at least the following numbers IT Networking supply and associated maintenance services of value specified herein during the last five years as on 31.12.2022 for any Govt./PSU/Autonomous body in India. • One project of similar nature not less than the amount Rs. 1.5 Crore; OR • Two projects of similar nature each of which not less than the amount Rs. 1 Crore; OR •Three projects of similar nature each of which not less than the amount Rs. 75 Lakh. **'Similar Nature'** is defined as , Supply, installation and maintenance of IT hardware & System Networking like Switch's, Servers, Network & Security devices, & other IT devices amongst others for government/ public sector enterprises in India

3	Page no- 26, 6.1. Detailed Scope of Work	Necessary Cabling for drawing power from the power source provided by the 4 Nos Premier Hospitals,3 Nos MCHs, and 73 Nos UPHCs of all districts (except Khordha & Jharsuguda) UPHC near Racks.	The bidder has to make necessary electrical wiring from the power source.
4	**(New addition)** Page No- 30 & 31, 6.3. Bill of Materials [BoM]		Please see Annexure-A of this corrigendum for details of BOM
5	Page no-34, Item – 2: Specifications of Central Core (L3) Switch	Specifications of Central Core (L3) Switch	Specifications of Central Core L3 Switch (Type-1) – For 4 Premier hospitals and 3 MCHs (Please see Annexure-B for details)
6	**(New addition)** Layer-3 Core Switch (Type-2)—For 73 UPHCs		Specifications of L3 Core Switch (Type-2) – For 73 UPHCs (Please see Annexure-B for details)
7	Page no-35, 6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	The switch should have Minimum 24*100/1000 T (Gigabit) Ethernet Ports + 4 or more x 1/10G SFP+ ports. Should be ready from day 1, loaded with relevant modules.	The switch should have Minimum 24*100/1000T (Gigabit) Ethernet IEEE 802.3at Ports along with 4 or more x 100/1000M Gigabit SFP ports and ready from day 1 loaded with relevant modules. Should be PoE or PoE+ ready from day 1 with a minimum POE power capacity of up to 370W.
8	Page No-35, 6.6.4. Item – 4: Unified Threat Management (UTM)	Number of NIC slots, should have minimum 10x 10/100/1000 Mbps Ethernet interfaces, Min 4x SFP+ interface for fiber connectivity	Number of NIC slots, should have minimum 8 x 10/100/1000 Mbps Ethernet interfaces , Min 2 x 1G SFP ports and 2 x 10G SFP+ Port interface for fiber connectivity ready from day-1.
9	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	The Antivirus/Antimalware should have a guaranteed throughput of more than 3.4 Gbps.	The Antivirus/Antimalware should have a guaranteed throughput of more than 2.5 Gbps
10	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Performance: Robust High Level Threat Protection Performance for firewall and VPN and should minimum of 3.5 Gbps firewall Threat Protection throughput and 2 Gbps IPSec VPN Throughput	Performance: Robust High Level Threat Protection Performance for firewall and VPN and should minimum of 3 Gbps or higher firewall Threat Protection throughput and 2 Gbps or higher IPSec VPN Throughput
11	Page-39, 6.6.7. Item – 7: 2 KVA Online UPS	Warranty for 2 KVA online UPS (Years) - 2 Years	2 KVA online UPS--Onsite Warranty for 5 years for both UPS and battery
12	Page No. 41, 6.6.9. specifications of Passive Networking Components, Point no. 3. Category 6 UTP Cable (Mts.) Subpoint- Item		<u>New addition with existing specifications</u> OEM should have ISO 45001. Other specifications are remain same.

13	Page No. 42, 6.6.9. specifications of Passive Networking Components, 4.Face Plate & Gang box with RJ-45 Jack Subpoint- Features	Plug in Icons – Icon tree – to be supplied with plate	Write on labels or Plug in Icons– supplied with plate
14	Page No. 42, 6.6.9. specifications of Passive Networking Components, 5.I/O Boxes Subpoint- Features	All information outlets for 100 ohms, 22-24 AWG copper cable shall: Use insulation displacement connectors (IDC)	All information outlets for 100 ohms, 23-26 AWG copper cable shall: Use insulation displacement connectors (IDC)
15	Page No. 42, 6.6.9. specifications of Passive Networking Components, 5.I/O Boxes Subpoint- Features	With integrated spring loaded shutter for Dust protection and prevents incomplete mating	With integrated shutter for Dust protection and prevents incomplete mating
16	Page No. 42, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge & Core) Subpoint- Features	Be made of cold rolled steel, in 24 port configurations. Each jack should have spring loaded shutter inside the jack for 100% dust free environment.	Be made of cold rolled steel, in 24 port configurations. Each jack should have shutter inside the jack for 100% dust free environment.
17	Page No. 43, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge& Core) Subpoint- Features	Each Ports/Jack should be with individual spring loaded shuttered for dust protection. Each port (jack) and individual replaceable.	Each Ports/Jack should be with individual shuttered for dust protection. Each port (jack) and individual replaceable
18	Page No. 43, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge& Core) Subpoint- IDC Connector	Wire Accommodation: 22-24 AWG solid	Wire Accommodation: 23-26 AWG solid
19	7.8. Commercial Bid	Details Commercial Bid (Annexure-C)	Commercial bid revised format Please see (Annexure-C)

(Annexure- A)

Bill of Materials [BoM]

4 Premier Health Institutions, 73 UPHC(Except Khordha & Jharsuguda)										
Item Description		Quantity								
		Unit	SVPPGIP	Capital	AHPGIC	SCB	MKCG MCH (Ganjam)	VIMSAR MCH (Sambalpur)	SLN MCH (Koraput)	73 UPHC(Except Khordha & Jharsuguda)	Total Quantity
Network Passive components											
1	Category 6 UTP Cable (In Meters)	Meter	5280	14250	11370	41100	1250	600	680	36500	111030
2	Cat-6 I/O Jack with back box and Face Plate	No	99	341	290	1170	25	12	12	803	2752
3	Ethernet Patch/ Jack panel Cat 6 UTP (24 Ports) with mounting accessories	No	15	20	17	52	4	3	3	73	187
4	6 Core Single-Mode Fiber Optic Cable (In meters)	Meter	1890	1540	1400	0	495	250	0	0	5575
5	12 Port OFC LIU Loaded with Adaptor, connecters and pigtails.	No	10	7	6	3	1	1	0	0	28
6	Single Mode 1G GB-FC OFC Transceivers	No	22	17	14	8	4	4	1	146	216
7	Fiber patch cord	No	22	17	14	8	4	4	1	146	216
8	22 U Rack for network/server room with Accessories(Floor standing)	No	1	1	1	1	1	1	1	73	80
9	9 U Rack with Accessories for N/W Edge Switch	No	14	18	15	50	3	2	2	73	177
10	UTP Patch Cord Cat 6 UTP 3 Ft	No	99	341	290	1170	25	12	12	803	2752
11	UTP Patch Cord Cat 6 UTP 7 Ft	No	73	104	185	627	29	16	16	949	1999
12	PVC/Conduit pipe for Cat-6 [in Mts]	No	3640	8260	7140	28000	560	280	280	36500	84660
13	PVC conduit Pipe for OFC laying[in Meters]	Meter	980	1260	420	0	205	80	0	0	2945
14	HDPE Pipe for OFC laying (without digging)	Meter	1400	280	700	0	290	170	0	0	2840
15	HDPE Pipe for OFC laying (with digging) in meter (price discovery item)	Meter	280	280	280	0	100	0	100	0	1040
16	Fixing of IO	No	99	341	290	1170	25	12	12	803	2752
17	Fixing of Jack Panel	No	15	20	17	52	4	3	3	73	187
18	Fixing of Rack	No	15	20	17	52	4	3	3	73	187
19	Earthing(Chemical) with accessories	No	1	1	1	1	1	1	1	73	80
20	Configuration, Testing and Commissioning of the Data Networking system with 5 year warranty	Per Hospital	1	1	1	1	1	1	1	73	80

Bill of Materials [BoM] – Continued

BOQ for 4 Premier Health Institutions, 73 UPHC(Except Khordha & Jharsuguda) & Some PHC,CHC & UPHC (For Khordha & Jharsuguda)											
	Item Description	Unit	Quantity								Total Quantity
			SVPPGIP	Capital	AHPGIC	SCB	MKCG MCH (Ganjam)	VIMSAR MCH (Sambalpur)	SLN MCH (Koraput)	73 UPHC(Except Khordha & Jharsuguda)	
Network Active Components											
1	Network Router	No	1	1	1	1	1	1	1	73	80
2	**24 Port Gigabit SFP Ports - Layer 3 Core Switch (Type-1)**	No	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**0**	**7**
3	**Layer 3 Core Switch (Type-2)**	No	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**73**	**73**
4	**24 Port Gigabit Ethernet Managed L2 POE Switch**	No	15	20	17	52	1	1	1	73	180
5	Firewall / UTM Device	No	1	1	1	1	1	1	1	0	7
6	Wireless Access Points with adaptor, PoE and cables	No	25	41	42	81	0	0	0	292	481
UPS Infrastructure											0
1	On-Line 2 KVA UPS for Network Rack	No	0	0	0	1	1	1	1	73	77
2	Line Interactive 1 KVA UPS (With 30 Mnts backup)	No	78	49	137	383	24	11	11	511	1204
Electrical & Other Infrastructure											0
1	Electrical points in Hospital Campus(5/15 Amp)--Electrical Wiring with All materials (i.e: Power Switch, Socket, DP and other accessories)	No	133	490	419	1540	59	32	32	1168	3873

I. SPECIFICATIONS OF CENTRAL CORE L3 SWITCH (TYPE-1) – FOR 4 PREMIER HOSPITALS AND 3 MCHS

Make: (Bidder to Specify)

Model: (Bidder to Specify)

Item	Description of Requirement	Compliances (Yes/No)
Make & Model Offered	Mention Make & Model	
Interface options	Minimum 24 x 1G SFP ports Shall have dedicated Console Port for management or Higher. Should support redundant hot swappable management module. Should be ready from day 1, loaded with relevant modules.	
Power Redundancy	Dual load-sharing internal power supplies (1+1 Redundancy) with dual FAN tray	
Architecture	Switching architecture providing Non- Blocking & Wire speed Performance	
	Throughput : 128MPPS or higher	
	Should have 1GB RAM or higher;	
	Switching capacity 150 Gbps or higher	
	MAC Address Table: 32K Entries or higher,	
	Shall support 15K or higher routing entries	
Performance	Non-blocking architecture with non-blocking switching throughput (full duplex)	
Security	RADIUS, TACACS+: allow and deny SSH v1, v2, HTTPS	
VLANs	Port-based VLANs, VLAN and active VLAN support (802.1Q)	
Spanning tree	Multiple spanning tree (802.1s), Rapid spanning tree (802.1w),	
Quality of service	QoS 802.1p (Priority queues), DSCP remarking,	
Routing protocols	RIP v1/v2, OSPF, BGP, PBR from day-1	
High availability	Virtual Router Redundancy support (VRRP) or equivalent	
Management	USB boot or equivalent	
IPv4 & IPv6 Compliant	IPv6 Compliant & other standard IPv4 protocols	
Multicast	IGMP v1, v2, v3 and equivalent protocols	
Protocols	IPv6 Compliant, SNMP v1, v2c & v3, RMON, NTP/SNTP support, DHCP client, DHCP Server, 9K Jumbo Frames	
Certifications	Emissions: FCC Class A, VCCI, UL, IEC or equivalent	
Temperature	operating: 0^{o} C to + 40^{o} C (minimum)	
Relative humidity	Non-condensing, operating 5 to 95 %	
Enclosure & Accessories	Rack Mounting enclosures should be supplied along with all accessories.	
Warranty & Support	5 Years Comprehensive Warranty on Hardware & Software. Warranty on Software should include access to Free Upgrades & Free Updates.	

II. SPECIFICATION OF LAYER-3 CORE SWITCH (TYPE-2)—FOR 73 UPHCS

Make : (Bidder to Specify)

Model: (Bidder to specify)

Item	Description of Requirement	Compliances (Yes/No)
Make & Model Offered	Mention Make & Model	
Interface options	24 RJ-45 autosensing 10/100/1000 ports and 4x1G SFP ports	
Power Redundancy	Dual load-sharing internal power supplies (1+1 Redundancy) with dual FAN tray	
Architecture	Shall have switching capacity of minimum 56 Gbps and 8MB packet buffer. 64-Byte Packet Forwarding Rate: 41Mpps or higher	
	Should support minimum 16000 MAC address and 1K routing entries (IPv4), and 1K IPv6 entries.	
Routing protocols	The switch should support static routing, OSPF and Policy Based routing. Should support VRRP.	
Security	The switch should support RADIUS/TACACS+. The switch should support DHCP server. The switch should support SNMPv1, v2, and v3	
VLANs	*Should support 2K active VLAN and 4094 VLAN IDs. Should support VLAN and PIM-SM/DM. *The switch should support MVRP or equivalent	
Features	The switch should support ACL and QoS for IPv6 network traffic. The switch should support Dual stack (IPV4 and IPV6) to transition from IPv4 to IPv6, supporting connectivity for both protocols	
	The switch should support IEEE 802.1X, Source-port filtering or equivalent, Dynamic ARP protection	
	IPV6 Compliant. The switch should support ACL and QoS for IPv6 network traffic. The switch should support Dual stack (IPV4 and IPV6) to transition from IPv4 to IPv6, supporting connectivity for both protocols	
Temperature	Operating temperature: 0°C to 45°C	
	Emissions: FCC Class A, VCCI, UL, IEC or equivalent	
	Humidity: Non-condensing, operating 5 to 95 %	
Enclosure Accessories	Rack Mounting enclosures should be supplied along with all accessories	
Warranty & Support	5 Years Comprehensive Warranty on Hardware & Software. Warranty on Software should include access to Free Upgrades & Free Updates.	

(Annexure- C)

Commercial Bid

SL. No.	Item	Quantity	Unit	Unit Price	GST	Total Unit Price	Total
A	B	C	D	E	F	G (E+F)	H (C*G)
1.	Category 6 UTP Cable (In Meters)	111030	Meter				
2.	Cat-6 I/O Jack with back box and Face Plate	2752	No				
3.	Ethernet Patch/ Jack panel Cat 6 UTP (24 Ports) with mounting accessories	187	No				
4.	6 Core Single-Mode Fiber Optic Cable (In meters)	5575	Meter				
5.	12 Port OFC LIU Loaded with Adaptor, connecters and pigtails	28	No				
6.	Single Mode 1G GB-FC OFC Transceivers	216	No				
7.	Fiber patch cord	216	No				
8.	22 U Rack for network/server room with Accessories(Floor standing)	80	No				
9.	9 U Rack with Accessories for N/W Edge Switch	177	No				
10	UTP Patch Cord Cat 6 UTP 3 Ft	2752	No				
11	UTP Patch Cord Cat 6 UTP 7 Ft	1999	No				

12	PVC/Conduit pipe for Cat-6 [in Mts]	84660	No				
13	PVC conduit Pipe for OFC laying[in Meters]	2945	Meter				
14	HDPE Pipe for OFC laying (without digging)	2840	Meter				
15	HDPE Pipe for OFC laying (with digging) in meter (price discovery item) (price discovery item)	1040	Meter				
16	Fixing of IO	2752	No				
17	Fixing of Jack Panel	187	No				
18	Fixing of Rack	187	No				
19	Network Router	80	No				
20	24 Port Gigabit SFP Ports - Layer 3 Core Switch (Type-1)	7	No				
21	Layer-3 Core Switch (Type-2)	73	No				
22	24 Port POE Gigabit Ethernet Managed Layer 2 Switch	180	No				
23	Firewall / UTM Device	7	No				
24	Wireless Access Points with adaptor, PoE and cables	481	No				
25	On-Line 2 KVA UPS for Network Rack	77	No				
26	Line Interactive 1 KVA UPS (With 30 Mnts backup)	1204	No				

27	Electrical points in Hospital Campus(5/15 Amp)--Electrical Wiring with All materials (i.e: Power Switch, Socket, DP and other accessories)	3873	No				
28	Earthing (Chemical)	80	No				
29	Configuration, Testing and Commissioning of the Data Networking system with 5 year onsite warranty	1					
	Grand Total						
	Grand Total in words						

Note:

- Least cost selection method will be adopted for evaluation of commercial bid. The bidder who will quoted lowest grand total will be marked as L1
- Prices shall be quoted inclusive of all taxes, duties, freight and forwarding and cost of labour for installation.
- In case of any discrepancy between Unit Price & Total Price, the Unit Price will prevail.
- All devices must include 5 years of onsite warranty support.

REVISED TENDER SCHEDULE Event

Event	Date
Last date of submission of Bids	By 12 Noon of 12.01.2023
Opening of General & Technical bid	12.01.2023 at 12:30 PM
Opening of Commercial bid	To be intimated later

Other terms and conditions of the RFP remain same.

Pre-Bid Resolution Document

Sl#	Document Reference(s) (Section & Page Number(s))	Content of EOI requiring Clarification(s)	Points of clarification	OCAC Clarification
1	Page No-35, 6.6.4. Item – 4: Unified Threat Management (UTM)	Number of NIC slots, should have minimum 10x 10/100/1000 Mbps Ethernet interfaces, Min 4x SFP+ interface for fiber connectivity	Number of NIC slots, should have minimum 8 x 10/100/1000 Mbps Ethernet interfaces, Min 2 x SFP fiber* and 2 x SFP+ 10 GbE fiber* Suggestion- 4 nos of 10G connectivity is not always required for such small firewall, a combination of 10G SFP and 10G SFP is always comes handy	Refer corrigendum
2	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	The Antivirus/Antimalware should have a guaranteed throughput of more than 3.4 Gbps.	The Antivirus/Antimalware should have a guaranteed throughput of more than 2.5 Gbps Suggestion- for a firewall which is having 5 Gbps stateful throughput deliver 3.5 Gbps AV/AM throughput looks very unlikely, in normal condition when you add security policies one by one, firewall performance degrades	Refer corrigendum
3	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Number of sessions : should support at least 1 million concurrent sessions	Number of sessions : should support at least 5 million concurrent sessions , New connections/sec 250,000 Suggestion- New session per second is very critical for accommodating new connections and onboarding applications.	As per RFP. Bidder may supply infra with higher specifications.
4	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Should have a Statefull throughput of at least 5 Gbps for Firewall	Number of sessions : Please change this to 30 Gbps Suggestion-Firewall throughput has to be much higher as performance numbers are going to dip when you implement scanning like antimalware, Web, APP, Email, ATP, Sandboxing, SSL, auth, VPN,. Please raise it to 40 Gbps for future probability, it is also suggested that in coming years these solutions also works like a XDR solution integrate with SIEM look into those parameters please accept change	As per RFP. Bidder may supply infra with higher specifications.
5	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	The Intrusion Prevention should have a guaranteed throughput of more than 3.5 Gbps	The Intrusion Prevention should have a guaranteed throughput of more than 12 Gbps. Suggestion- IPS is one security which is protecting your unpatched OS (Client and Servers) and those unpatched applications are used by the attackers to exploit your apps and launch an attack, we have to utilise this in every policy, IPS numbers are very less, please increasae it to 12 Gbps	As per RFP. Bidder may supply infra with higher specifications.

6	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Integrated SSL VPN with license for 100 users should be provided from day one.	Integrated SSL VPN with license for 500 users should be provided from day one. Suggestion- during covid we learned this lesson that time may come when entire workforce need to operate from home, so this change is recommened.	As per RFP. Bidder may supply infra with higher specifications.
7	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Performance: Robust High Level Threat Protection Performance for firewall and VPN and should minimum of 3.5 Gbps firewall Threat Protection throughput and 2 Gbps IPSec VPN Throughput	Robust High Level Threat Protection Performance for firewall and VPN and should minimum of 3 Gbps firewall Threat Protection throughput and 14 Gbps IPSec VPN Throughput Suggestion- for a firewall which is having 5 Gbps stateful throughput deliver 3.5 Gbps threat protection throughput looks very unlikely, in normal condition when you add security policies one by one, firewall performance degrades automatically, protections like SSL scan, IPS, WEB, Mail, ATP, sandboxing, auth, all these impacts firewall performance, so i would like convey that if possible lower the threat protection throughput to 3 Gbps, this also looks similar to specific OEM	Refer corrigendum
8	Page No-36, 6.6.4. Item – 4: Unified Threat Management (UTM)	Multi WAN/ISP support: should support automatic ISP failover as well as ISP load sharing for outbound traffic. Should have separate interfaces for terminating dual ISP Ethernet connectivity.	Multi WAN/ISP support: should support automatic ISP failover as per SLA parameters like Packet loss, jitter and latency, as well as ISP load sharing for outbound traffic. Should have separate interfaces for terminating dual ISP Ethernet connectivity. Suggestion- Maintaining SLA on wan interface can be super beneficial, as we monitor Wan performance as per sla parameters and route and reroute traffic as per their performance makes applications reach its destinations and reroute traffic as per their performance makes applications reaches its destinations	As per RFP
9	Page No- 33, 6.6. Specification of the hardware and Networking Items/6.6.1. Item 1: Specifications of Router	Minimum 800Kpps packet forwarding performance	Request to please change this as "Minimum 500Kpps packet forwarding performance".Request to relax for locations/sites with very minimal set of users.	As per RFP

10	Page No- 33, 6.6. Specification of the hardware and Networking Items/6.6.1. Item 1: Specifications of Router	Router should have at least two 10/100/1000M Gigabit routable WAN Ethernet ports and one 10/100/1000M Gigabit LAN Ethernet port.	Request to please change this as "Router should have at least one 10/100/1000M Gigabit routable WAN Ethernet ports and 4x 10/100/1000M Gigabit LAN Ethernet port and one SFP port. Request to relax for locations/sites with very minimal set of users.	As per RFP
11	Page No- 35, 6.6. Specification of the hardware and Networking Items6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	The switch should have Minimum 24*100/1000 T (Gigabit) Ethernet Ports + 4 or more x 1/10G SFP+ ports. Should be ready from day 1, loaded with relevant modules.	Request to please modify this clause as "The switch should have Minimum 24*100/1000 T (Gigabit) Ethernet Ports + 4x1G SFP ports. Should be ready from day 1, loaded with relevant modules.".	Refer corrigendum
12	Page No- 35, 6.6. Specification of the hardware and Networking Items6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	Switch shall have minimum 128Gbps switching capacity	Request to please change this clause as "Switch shall have minimum 56Gbps switching capacity".This is as per 24x100/1000T ports and 4x1G uplink ports calculations.	As per RFP
13	Page No- 35, 6.6. Specification of the hardware and Networking Items6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	Request for addition	Should have minimum 2GB RAM and 2GB Flash.Should have minimum 6MB packet buffer. It will ensure better solution at edge layer.	As per RFP
14	Page No- 35, 6.6. Specification of the hardware and Networking Items6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	Request for addition	Switch should have dedicated Console port and Fan based architecture.	As per RFP
15	Page No- 35, 6.6. Specification of the hardware and Networking Items6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	Switch should support at least 200 concurrent VLANs or higher	Request to please change this as "Switch should support at least 500 concurrent VLANs".	As per RFP
16	General	Request to consider Type-2 router for Large locations.Minimum Specification as -	• Minimum 2 Mpps packet forwarding performance • Router should have at least two 10/100/1000M Gigabit routable WAN Ethernet ports and two 10/100/1000M Gigabit LAN Ethernet port.Should have 1xSFP port from day-1	As per RFP

17	General	Request consider Type-2 L3 Switch for Small locations.Minimum Specification as -	• 24 RJ-45 autosensing 10/100/1000 ports and 4x1G SFP ports • Shall have switching capacity of minimum 56 Gbps and 8MB packet buffer • The switch should support static routing,RIPv2,OSPF and Policy Based routing.Should support VRRP. • Should support minimum 16000 MAC address and 1K routing entries(IPv4),1K IPv6 entries. • Should support 2K active VLAN and 4094 VLAN Ids.Should support Vxlan and PIM-SM/DM. • The switch should support IEEE 802.1X, Source-port filtering or equivalent,Dynamic ARP protection • The switch should support RADIUS/TACACS+.The switch should support DHCP server.The switch should support SNMPv1, v2, and v3 • The switch should support ACL and QoS for IPv6 network traffic.The switch should support Dual stack (IPV4 and IPV6) to transition from IPv4 to IPv6, supporting connectivity for both protocols • The switch should support GVRP and MVRP or equivalent • Operating temperature of 0°C to 45°C	Refer corrigendum (Type-2 L3 Core Switch for 73 UPHCs)
18	Wi-Fi Access Point	Request for addition	• Kindly append the clause as: "Offered Wi-Fi Access Point should integrate and work seamlessly with existing Ap as well as controller. If available at the premises/site" • It's very much required that the WiFi network should be seamless and integrated as one network for management and security.	As per RFP
19	General		1) For each PowerPoint we have considered 1No. 5/15 Switch, 1No. Socket & 1 No DP (MCB). Kindly confirm if our understanding is correct. 2) Kindly confirm if we should consider power source from the existing nearby electrical board. 3) Kindly share the electrical diagram of the architecture for better execution.	Bidder should study the requirement of power extension during survey of site.
20	Page-39, 6.6.7. Item – 7: 2 KVA Online UPS	Warranty for 2 KVA online UPS (Years) - 2 Years	As per the BoM All Product have 5 year Warranty, But in Online UPS Technical Specification the Warranty Mention is 2 years for both UPS & Battery, Kindly clarify the Same.	Refer corrigendum

21	Page-34, 6.6.2. Item – 2: Specifications of Central Core (L3) Switch	Interface options: Minimum 24 x 1G SFP ports Shall have dedicated Console Port for management or Higher. Should support redundant hot swappable management module. Should be ready from day 1, loaded with relevant modules.	Edge Switch will connect with the Core in 10G backbone, in Edge Switch 10G uplink is asked but in Core Switch 1G which is completely irelevant and wrong solution, kindly change it to 10G SFP+ (48 port) switches. Also to mention "management module" is OEM specific kindly remove it.	• Specifications of 24 Port Gigabit Ethernet Port Edge Switch has been changed. Please refer corrigendum. • Specifications of Central Core (L3) Switch specification remain same.
22	Page-34, 6.6.2. Item – 2: Specifications of Central Core (L3) Switch	Routing protocols: RIP v1/v2, OSPF, BGP, PBR from day-1	In the type of solution "BGP" protocol is not madatory and hence you are requested to remove it and allow us to participate.	As per RFP
23	Page-35, 6.6.3. Item 3: Specifications of 24 Port Gigabit Ethernet Port Edge Switch	Interface Options: The switch should have Minimum 24*100/1000 T (Gigabit) Ethernet Ports + 4 or more x 1/10G SFP+ ports. Should be ready from day 1, loaded with relevant modules.	The solution will be with Wifi_Wireless Access Points and for powering the AP you need PoE+ Edge Switches, but it is asked as Non PoE Switches which is completely irelevant and wrong solution, kindly change this as PoE+ Switches.	Refer corrigendum
24	Page No. 37, 6.6.5. Item – 5: Specifications of Wi-Fi Access Point	Ports: Minimum 1 x LAN 100/100 port or Higher ;Should support Zigbee and Bluetooth 5	Wifi-6 AP need Port with more speed as 2.5G Multigig which is not asked and only 100 Mbps written which is completely irelevant and wrong solution, kindly change this as 2.5G Port. Also Zigbee and Bluetooth 5 are OEM specific and would stop us and other established OEMs for participation, kindly remove them and allow for a fair competition.	As per RFP. (Zigbee and Bluetooth 5 are not OEM specific)
25	Page No. 37, 6.6.5. Item – 5: Specifications of Wi-Fi Access Point	Antenna: Omni-directional antennas (attached/integrated), Minimum 4 dBi in 2.4GHz and minimum 5 dBi in 5GHz	For Antenna it is asked as 4 dBi in 2.4GHz and 5 dBi in 5GHz, which is OEM specific and not all established OEMs are having it, kingly change it as "Minimum 3.5 dBi in 2.4GHz and minimum 4.5 dBi in 5GHz" for better and fair competition.	As per RFP
26	Page No. 37, 6.6.5. Item – 5: Specifications of Wi-Fi Access Point	PoE: It should be Auto-sensing 10/100/1000 Ethernet PoE with standard 802.3af or better and should have console access	Wifi-6 AP need Port with more speed as 2.5G Multigig which is not asked and only 1000 Mbps written which is the wrong solution, kindly change this as 2.5G Port. Also, console access is OEM specific and not all established OEMs having it, and when there is an option for centralised monitoring everything can be managed centraly itself and no "console access" require, kindly remove it and allow for a fair competition.	As per RFP
27	Page No. 38, 6.6.5. Item – 5: Specifications of Wi-Fi Access Point	Operational: AP must be offered with required controller software/hardware. AP must support operation in stand-alone or with-controller.	Kindly add "Cloud Controller" along with software/hardware controller option, amend as, "Operational: AP must be offered with required controller software/hardware/Cloud. AP must support operation in stand-alone or with-controller." And allow	As per RFP

			us and other established OEMs to participate and have a fair competition.	
28	Page No-13 , Clause No-2, under 3.1. Pre-Qualification (PQ) – Cum- Technical Criteria (Average Sales Turnover)	Annual average Turnover Minimum of Rs. 2 Crore generated from IT/ITeS any last three Financial years i.e : FY 2021-22, 2020-21, and FY 2019-20	We Hereby request you to please relax this Clause, as "Annual average Turnover Minimum of Rs. 1 Crore generated from IT/ITeS any last three Financial years i.e : FY 2021-22, 2020-21, and FY 2019-20"	Refer corrigendum
29	Page No-13 , Clause No-3, under 3.1. Pre-Qualification (PQ) – Cum- Technical Criteria (Technical Capability)	Bidder must have successfully undertaken at least the following numbers IT Networking supply and associated maintenance services of value specified herein during the last five years as on 31.12.2022 for any Govt./PSU/ Autonomous body in India. • One project of similar nature not less than the amount Rs. 3.2 Crore; OR • Two projects of similar nature each of which not less than the amount Rs. 2.4 Crore; OR •Three projects of similar nature each of which not less than the amount Rs. 1.6 Crore	We Hereby request you to please relax this Clause, as "Bidder must have successfully undertaken at least the following numbers IT Networking supply and associated maintenance services of value specified herein during the last five years as on 31.12.2022 for any Govt./PSU/ Autonomous body in India. • One project of similar nature not less than the amount Rs. 1.5 Crore; OR • Two projects of similar nature each of which not less than the amount Rs. 1.12 Crore; OR •Three projects of similar nature each of which not less than the amount Rs. 0.75 Crore"	Refer corrigendum
30	Page No-16 , Clause No-4.4, (Splitting of order)	The work will be awarded by splitting the total quantities amongst L1, L2 and L3 bidders with ratio of 50:30:20. Bidders have to match all the prices/rates of the L1 bid in each item and complying the other terms and condition of the RFP in a fair and transparent manner.	We Hereby request you to please relax this Clause, as "The work will be awarded by splitting the total quantities amongst L1, L2, L3, L4 and L5 bidders with ratio of 28% to L1 and rest all 4 with ratio of 18% each provided L2, L3, L4 and L5 Bidders are willing to match all the prices/rates of the L1 bid in each item and complying the other terms and condition of the RFP in a fair and transparent manner."	As per RFP

31	Page No- 49, 6.10.2. Payment Terms	a. 90% of the order value will be paid to the supplier after delivery and installation at site. b. Balance 10% of the order value shall be released after submission of PBG of required value mentioned at clause no. 4.5 c. GST shall be paid as per actual at the time of billing d. Taxes, as applicable, will be deducted at source, from due payments, as per the prevalent rules and regulations. e. Payment shall be released after deduction of penalty, if any, as per clause 5.2 SLA	We Hereby request you to please relax this Clause, as "a. 95% of the order value will be paid to the supplier after delivery and installation at site. b. Balance 5% of the order value shall be released after submission of PBG of required value mentioned at clause no. 4.5 c. GST shall be paid as per actual at the time of billing d. Taxes, as applicable, will be deducted at source, from due payments, as per the prevalent rules and regulations. e. Payment shall be released after deduction of penalty, if any, as per clause 5.2 SLA	As per RFP
32	Page No. 41, 6.6.9. specifications of Passive Networking Components, 3. Category 6 UTP Cable (Mts.) Subpoint- Item	4 Pair with ETL test report for channel and zero bit error -All UTP Components should be from the same OEM.	Zero Bit Error performace is possible under Lab test environments only. Normal office or campus environments are exposed to higher that 3V/m of EM radiations thus amply effecting the SNR and BER for data communication. Therefore it is requested to kindly Delete the Zero Bit Error required for procurement of this item. Instead, the ETL Verification Program be mentioned so that the procured product is certified by NABL Approved LAB. As mentioned in Item No. 7 & 8 Change recommended- 4 Pair with ETL 04-Connector Channel test report and should be covered under ETL Verification Program. All UTP Components should be from the same OEM.	As per RFP
33	Page No. 41, 6.6.9. specifications of Passive Networking Components, 3. Category 6 UTP Cable (Mts.) Subpoint- Characteristics	Characterized up to minimum 600Mhz. Should be highlighted	Instead of mentioning in the Data sheet, request if 3rd Party Test report be asked which shall ensure a quality tested product be quoted which is verified. Change recommended- Characterized up to minimum 600Mhz. ETL Tested report to be submitted. The Cable should be CM Rated.	As per RFP
34	Page No. 41, 6.6.9. specifications of Passive Networking Components, 3. Category 6 UTP Cable (Mts.) Subpoint- Item	Request for addition	Addition of Support Structure of Passive OEM in India to promote Make in India products as well as to ensure support both technically and faster delivery and replacement of products Change recommended- The OEM should be ISO 45001 should have its Manufacturing units, Components and Finished Goods Warehouse & R&D labs in India. The OEM shall be CE Certified. All Related documents to be submitted.	Refer corrigendum

35	Page No. 42, 6.6.9. specifications of Passive Networking Components, 4.Face Plate & Gang box with RJ-45 Jack Subpoint- Features	Plug in Icons – Icon tree – to be supplied with plate	In the Face Plate its is asked in Point No. 2 - Write on labels– supplied with plate, then why the requirement of Plug Icon. In addition, the Plug Icons are OEM specific.Request if it be deleted or kept as either if the case. Change recommended- Write on labels or Plug in Icons– supplied with plate	Refer corrigendum
36	Page No. 42, 6.6.9. specifications of Passive Networking Components, 5.I/O Boxes Subpoint- Features	All information outlets for 100 ohms, 22-24 AWG copper cable shall: Use insulation displacement connectors (IDC)	Since the Cable being used for CAT6 are manufactured by all OEM in 23 or 24 AWG, similarly the patch cord are in the range of 23 - 26 AWG. Therefore we request that the same may be amednded to support both types of cables. Change recommended- All information outlets for 100 ohms, 23-26 AWG copper cable shall: Use insulation displacement connectors (IDC)	Refer corrigendum
37	Page No. 42, 6.6.9. specifications of Passive Networking Components, 5.I/O Boxes Subpoint- Features	With integrated spring loaded shutter for Dust protection and prevents incomplete mating	Spring loaded shutter is an OEM Patented technology refer to https://www.molexces.com/webfoo/wp-content/uploads/KSJ-00018-XX-1.pdf. Since the motive is to protect dust we can use dust cover which compared to spring based are better as spring might get damaged over a period of 25 years. Change recommended- With integrated spring loaded shutter or Dust Cover for Dust protection and prevents incomplete mating	Refer corrigendum
38	Page No. 42, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge& Core) Subpoint- Features	Be made of cold rolled steel, in 24 port configurations. Each jack should have spring loaded shutter inside the jack for 100% dust free environment.	Spring loaded shutter is an OEM Patented technology refer to https://www.molexces.com/webfoo/wp-content/uploads/KSJ-00018-XX-1.pdf. Since the motive is to protect duct we can use dust cover which compared to spring based are better as spring might get damaged over a period of 25 years. Change recommended- Be made of cold rolled steel, in 24 port configurations. Each jack should have spring loaded shutter inside the jack or provided with Dust Cover for 100% dust free environment.	Refer corrigendum

39	Page No. 43, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge& Core) Subpoint- Features	Each Ports/Jack should be with individual spring loaded Shuttered for dust protection. Each port (jack) and individual replaceable.	Spring loaded shutter is an OEM Patented technology refer to https://www.molexces.com/webfoo/wp-content/uploads/KSJ-00018-XX-1.pdf. Since the motive is to protect duct we can use dust cover which compared to spring based are better as spring might get damaged over a period of 25 years. Change recommended- Each Ports/Jack should be with individual spring loaded shuttered or provided with Dust Cover for dust protection. Each port (jack) and individual replaceable.	Refer corrigendum
40	Page No. 43, 6.6.9. specifications of Passive Networking Components, 6.24 Ports Jack Panel Cat 6 (Edge& Core) Subpoint- IDC Connector	Wire Accommodation: 22-24 AWG solid	Since the Cable being used for CAT6 are manufactured by all OEM in 23 or 24 AWG, similarly the patch cord are in the range of 23 - 26 AWG. Therefore we request that the same may be amednded to support both types of cables. Change recommended- Wire Accommodation: 23-26 AWG solid	Refer corrigendum
41	Page No. 46, 6.6.9. specifications of Passive Networking Components, 11. Fiber Optic Rackmount 12, 24 Port LIU, loaded with Dual Coupler, Splice Tray & Pigtail Subpoint- Compact size (mm)	19" Rack Mount 482mm W x 254mm D x 43mm H	The Dimension mentioned are OEM specific request you to kindly share some options towards. Change recommended- 19" Rack Mount 482mm W x 254mm D x 43mm H or 482mm W x 250mm D x 44.5mm H	As per RFP
42	Page No. 47, 6.6.9. specifications of Passive Networking Components, 11. Fiber Optic Rackmount 12, 24 Port LIU, loaded with Dual Coupler, Splice Tray & Pigtail Subpoint- Splice Tray	1 x Universal Splice Tray, Material: ABS polymer Dimensions: 168mm W x 124mm D x 13mm H	The Dimension mentioned are OEM specific request you to kindly share some options towards. Change recommended- 1 x Universal Splice Tray, Material: ABS polymer Dimensions: 168mm W x 124mm D x 13mm H	As per RFP
43	Page No. 47, 6.6.9. specifications of Passive Networking Components, 15. Duplex Adaptors & Coupler (Single MODE) Subpoint- Features	All SC adaptors should be duplex type with shutter for protection. Adapters should be snap mount for easy insertion and removal.	Shutter based protection is OEM specific. In addition since protection is from Dust therefore request if the same may be generalised Change recommended- All SC adaptors should be duplex type with shutter or Dust cover for protection. Adapters should be snap mount for easy insertion and removal.	As per RFP