

# CORRIGENDUM

## Tender for Supply, Installation and commissioning of Local Area Network and minor electrical work at Hospitals under OeHMIS Project.

REF NO : OCAC-SEGP-SPD-0015-2021-22004

SL#	Clause	Existing Clause	Revised Clause
1.	5.6.2 Specifications of GB-FC Transceiver (MM)	Bandwidth : Should provide 1 G throughput	of GB-FC Transceiver should be single mode.  Bandwidth : Should provide 1 G throughput  Should be compatible with HPE ARUBA 5406
2.	5.6.3 Specifications of Router		This item has been removed from tender. No need to quote
3.	5.5 Delivery and Installation	The bidder should supply and install all the materials at DHH, CHC, PHC and UPHC within 8 weeks from the date of PO. LAN must be completed within 8 weeks from the date of PO.	The bidder should supply and install all the materials at DHH, CHC, PHC and UPHC within 12 weeks from the date of PO. LAN must be completed within 12 weeks from the date of PO.
4.	5.6.4 Specifications of Passive Networking Components  Point 2. Category 6 UTP Cable	... Features : Category 6 Unshielded Twisted Pair 4 pair with ANSI/TIA/EIA-568-B. ....  Characteristics : Jacket Fire retardant PVC	... Features : Category 6 Unshielded Twisted Pair 4 pair with ANSI/TIA/EIA-TIA-568.2-D. ....

			<p>The specification “The Cable should be UL listed, ETL Certified, EIA/TIA 568-C.2.” has been removed</p> <p>....</p> <p>Characteristics : Cable Jacket must be LSZH</p> <p>...</p> <p>(other specification remain same)</p>
5.	<p>5.6.4 Specifications of Passive Networking Components</p> <p>Point 4. I/O Boxes</p>	<p>...</p> <p>Category 6, TIA568B.2-1 – 500MHz</p> <p>...</p> <p>TIA568B.2-1, ETL certificate to be submitted</p> <p>....</p>	<p>...</p> <p>Category 6, TIA568.2-D – 500MHz</p> <p>...</p> <p>TIA568.2-D, ETL certificate to be submitted</p> <p>....</p> <p>(other specification remain same)</p>
6.	<p>5.6.4 Specifications of Passive Networking Components</p> <p>Point : 6. Mounting cords 3 Ft</p> <p>Point : 7. Mounting cords 7 Ft</p>	<p>.....</p> <p>Should be covered by ETL verification program for compliance with TIA 568B.2-1. Certificate to be submitted with bid.</p> <p>...</p>	<p>...</p> <p>Compliance with ANSI/TIA 568.2-D</p> <p>....</p> <p>(other specification remain same)</p>
7.	<p>5.6.4 Specifications of Passive Networking Components</p> <p>Point 9. OFC -6 Core (Single-Mode)</p>	<p>...</p> <p>Jacket material: UV Stabilised Polyethylene (HDPE)</p> <p>...</p>	<p>...</p> <p>Jacket material - Flame retardant Low Smoke Zero Halogen (FRLSZH)</p> <p>...</p>

			(other specifications remain same)
8.	5.6.4 Specifications of Passive Networking Components  Point-11 Optical Fibre Equipment cords for 1 G Modules (3 Mt.) MM) LC-SC/LC-LC		The bidder to supply Single mode Patch cord 3Mt.
9.	5.6.1 Specifications of Wi-Fi Access Point	... POE: It should be Auto-sensing 10/100/1000 Ethernet PoE with standard 802.3af and should have console access ...	... It should be Auto-sensing 10/100/1000 Ethernet PoE with standard 802.3af or better and should have console access ... (other specifications remain same)

## REVISED TENDER SCHEDULE

Event	Date
Last date of submission of Bids	By 12 Noon of 02.04.2022
Opening of General & Technical bid	02.04.2022 at 12:30 PM
Opening of Commercial bid	To be intimated later

**Other terms and conditions of the RFP remain same.**

**Pre-Bid response document**

<b>Sl#</b>	<b>Document Reference(s) (Section &amp; Page Number(s))</b>	<b>Content of EOI requiring Clarification(s)</b>	<b>Points of clarification</b>	<b>OCAC Clarification</b>
1	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	The AP should support deep packet inspection to classify and block, prioritize, or limit bandwidth for thousands of applications in a range of categories.This is very relevant for today's cloud centric application environment and for colaborative application like Zoom/Skype etc.	As per RFP
2	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	The Access point should support 802.11ax Target Wait Time (TWT) to support low-power client devices.This is the enhancement feature of 802.11ax standard.	As per RFP
3	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	Should support "Temperature: 0C to +50C / +32F to +122F"	As per RFP
4	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	The proposed Access Point should be Wi-fi 6 certified.	As per RFP
5	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	AP mounting kit should be from same OEM with locking slot so that AP cannot be removed without using special tools.	As per RFP
6	5.6 Specification of the hardware Items/5.6.1 Specifications of Wi-Fi Access Point,Page 29	Request for addition	Access point should support Built-in technology that resolves sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices.This is very relevant in client device perspective.	As per RFP

7	5.6 Specification of the hardware Items/5.6.3 Specifications of Router Make,Page#30	Minimum 800Kpps packet forwarding performance	Request to please change this as "Minimum 1Mpps packet forwarding performance".This will ensure better performance.	As per RFP however bidder may provide hardware with better configuration
8	5.6 Specification of the hardware Items/5.6.3 Specifications of Router Make,Page#30	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 two 10/100/1000M Gigabit routable WAN Ethernet ports and 4x 10/100/1000M Gigabit LAN Ethernet port.".This will ensure higher port availability from day-1 to connect to LAN.	As per RFP however bidder may provide hardware with better configuration
9	5.6.2 Specifications of GB-FC Transceiver (MM)	General	Requesting the clarity regarding the CORE switch details.	See the revised clause in corrigendum,
10	Pre Qualification 2.1, Page no. 11	Pre Qualification -In the Technical capabilities , it is asked in the RFP that similar nature of the project is defined as Supply, Installation and maintenance of IT hardware & system Networking like switches,Server, network & security devices & other IT devices for Govt/Public sector enterprise in India	We request you to kindly consider Private customer PO as well. That could be of any manufacturing plant....	As per RFP
11	Page no. 30	Specification of router is mentioned in Clause no. 5.6.3	In the BOQ , Router is not mentioned , kindly confirm.	Router has been removed from the tender. Please see the corrigendum
12	2.1 Pre Qualification, Point No: 1, Page no: 11, Legal Entity	The company offices must have been Registered in Odisha, Registered with Valid GST No and having PAN, & IT Return up to 31st March 2020.	In case bidder has no presence in Odisha, bidder shall furnish an undertaking that an registered office shall be opened in Odisha with sufficient personnel within a month of selection as Successful Bidder.	AS per RFP
13	5.10.2 Payment Schedules page no 41, Payment Schedules	a. 90% of the order value will be paid to the supplier after delivery and installation at site	Since it is a capital-intensive project, we request that 80% of total payment be released on successful delivery of hardware.10% payment to be made after installation.	As per RFP

14	5.5 Delivery and Installation Page no 28, Delivery and Installation	The bidder should supply and install all the materials at DHH, CHC, PHC and UPHC within 8 weeks from the date of PO. LAN must be completed within 8 weeks from within 8 weeks from the date of PO	We request here to change from 8 weeks to 15 weeks	See the revised clause in corrigendum,
15	Consortium Clause	No clause mentioned for consortium in EOI	We request here to allow Consortium	As per RFP. Not allowed
16	5.6.3 Specifications of Router Page No: 30	Specification of the hardware Items. To run the access points 24 Port POE Edge Switch & Core Switch is required	The specification of Edge & Core Switch need to be added	Edge & Core Switch has been covered under separate tender. Router has been removed from the tender. Please see the corrigendum
17	5.3 Bill of Materials [BoM]	Bill of Materials [BoM]	In the BoM - Edge, Core Switch & Router Qty are missing. Edge & Core Switch need to be include on BoM	Edge & Core Switch has been covered under separate tender. Router has been removed from the tender. Please see the corrigendum
18	5.6.4 Specifications of Passive Networking Components page no 32	2. Category 6 UTP Cable (Mts.) The OEM should be ISO 9001:2000 Certification for Design, development, Manufacturing of copper & fiber cables and components.	Please confirm if manufacturing plant should be in India, keeping the Make in India initiative in mind.	As per RFP
19	5.6.4 Specifications of Passive Networking Components page no 32	2. Category 6 UTP Cable (Mts.) Category 6 Unshielded Twisted Pair 4 pair with ANSI/TIA/EIA-568-B.	This is more than 10 years old standard, request to use latest version of the relevant standards. Please consider the amendment as - "Category 6 Unshielded Twisted Pair 4 pair with ANSI/TIA-568.2-D, IEEE 802.3bt and EN 50288". Compliance to recent standards are critical to be compatible with the latest active equipment and applications.	Accepted. See the revised specification in Corrigendum

20	5.6.4 Specifications of Passive Networking Components page no 33	2. Category 6 UTP Cable (Mts.) The Cable should be UL listed, ETL Certified, EIA/TIA 568-C.2.	Request to define the certification requirements in line with modern hospital industry standards. Please amend this as – The Cable must be Intertek 4 connector channel certified for 100m long and 15m short channels. Shall be ETL verified and 3rd party certified for IEC 60332-3-22 (flame test), IEC 61034-2 smoke density test and IEC 60754-2 toxic gas emission tests.	See the revised specification in Corrigendum
21	5.6.4 Specifications of Passive Networking Components page no 33	2. Category 6 UTP Cable (Mts.) D.C. Resistance: 9.38 ohm/100m	The given resistance is way too high to support the need of latest medical applications. Please amend this as – “D.C. Resistance: Max. 7.61 ohm/100m and safety voltage rating of 300V.	As per RFP
22	5.6.4 Specifications of Passive Networking Components page no 33	2. Category 6 UTP Cable (Mts.) Jacket Fire retardant PVC	2. Category 6 UTP Cable (Mts.) Jacket Fire retardant PVC	See the revised specification in Corrigendum
23	5.6.4 Specifications of Passive Networking Components page no 33	4. I/O Boxes: Category 6, TIA568B.2-1 – 500MHz	4. I/O Boxes: Category 6, TIA568B.2-1 – 500MHz. The standard mentioned is over 10 years old. Request to amend this to the recent relevant standards and performance criteria. Please consider – Category 6 Jack compliant to ANSI/TIA 568.2-D, IEEE 802.3bt, IEC 60603-7 and ISO/IEC 11801, tested upto 500Mhz.	See the revised specification in Corrigendum
24	5.6.4 Specifications of Passive Networking Components page no 33	4. I/O Boxes: With integrated spring loaded shutter for Dust protection and prevents incomplete mating	Request to delete this clause since this is a patented OEM specific feature. Shutters should be provided on faceplate for Dust protection, and not on the jack module.	As per RFP

25	5.6.4 Specifications of Passive Networking Components page no 34	4. I/O Boxes: ETL Verification program for compliance with TIA568B.2-1, ETL certificate to be submitted with offer	Request to amend this with the latest standard certification – CAT6 jack shall be certified by ETL/Intertek under 6 connector channel for compliance with ANSI/TIA 568.2-D and ISO/IEC 11801 (ed.2017) standards.	See the revised specification in Corrigendum
26	5.6.4 Specifications of Passive Networking Components page no 34	4. I/O Boxes:	Request to specify the minimum electrical parameters for the Jack as below – Current rating: 1.5A Min insulation resistance: 500 MOhm 4PPoE support upto 90W (Type 4)	As per RFP
27	5.6.4 Specifications of Passive Networking Components page no 34	5. 24 Ports Jack Panel Cat 6 (Edge & Core): Each jack should have spring loaded shutter inside the jack for 100% dust free environment.	Request to delete this clause since this is a patented OEM specific feature. Shutters should be provided on faceplate for Dust protection, and not on the jack module.	As per RFP
28	5.6.4 Specifications of Passive Networking Components page no 35-36	6. Mounting cords 3 Ft / 7. Mounting cords 7 Ft : Should be covered by ETL verification program for compliance with TIA 568B.2-1. Certificate to be submitted with bid.	Request to amend this with the latest standard certification – CAT6 Patch Cord shall be certified by ETL/Intertek under 6 connector channel for compliance with ANSI/TIA 568.2-D and ISO/IEC 11801 (ed.2017) standards.	See the revised specification in Corrigendum
29	5.6.4 Specifications of Passive Networking Components page no 35-36	6. Mounting cords 3 Ft / 7. Mounting cords 7 Ft : Operating temperature: -40oC to 75oC	Please amend this range to more realistic values within building as – Operating temperature: -10 DegC to 60 DegC. The given range is not supported with the given construction of the patch cord. Hence there seems to be a conflict in the construction and temperature range. Please amend.	As per RFP

30	5.6.4 Specifications of Passive Networking Components page no 37	9. OFC -6 Core (Single-Mode) Jacket material - UV Stabilised Polyethylene (HDPE)	Since the cable shall be laid in hospital campus, please consider fire rated jacket material for all cables. Please amend this for the sake of human life safety in the campus. "Jacket material - Flame retardant Low Smoke Zero Halogen (FRLSZH), 2.0mm thickness" As per Indian building code and healthcare facility standard recommendations all cables within building must be LSZH rated.	See the revised specification in Corrigendum
31	5.6.4 Specifications of Passive Networking Components page no 37	9. OFC -6 Core (Single-Mode) Peripheral Strength Member	Please allow Aramid yarns as peripheral strength members.	As per RFP
32	5.6.4 Specifications of Passive Networking Components page no 37	9. OFC -6 Core (Single-Mode) Tensile Strength : 1500N	Please amend this clause as "Tensile strength of 1200N or higher"	As per RFP
33	5.6.4 Specifications of Passive Networking Components page no 37	9. OFC -6 Core (Single-Mode) Crush Resistance : 2000N/10cm	To achieve effective rodent protection please consider min crush resistance upto 3000N/10cm	As per RFP however bidder may provide hardware with $\geq 2000\text{N}/10\text{cm}$
34	5.6.4 Specifications of Passive Networking Components page no 37	11. Optical Fibre Equipment cords for 1 G Modules (3 Mt.) MM) LC-SC/LC-LC : All optical fibre patch leads shall comprise of OM3 multimode 50/125 $\mu\text{m}$ fiber	Seems this is a typo error. Since the fiber cable and LIU used are Singlemode, the patch cords / adapters and pigtails also need to be Singlemode. Multimode OM3 is mentioned here. Please delete this and replace with correct Singlemode patch cord specification. Singlemode Patch cord specs as below for reference – "LC/UPC-LC/UPC or LC/UPC-SC/UPC Duplex Fiber Optic Patch Cord, 9/125 Micron OS2 Singlemode G.657.A1, 1.6mm cordage, UL 1685, NEC OFNR-LS (ETL) listed, LSZH sheath with IEC 60332-3, Min. Return Loss >50 dB.	See the corrigendum
35	5.3 Bill of Material[BoM],page no.27	Router Item is present in specification but not in Bill of Material.	Please Clarify.	See the corrigendum

36	5.6.1 Specifications of Wi-Fi Access Point Page: 29	Should support Zigbee and Bluetooth 5	Availability of zigbee & Bluetooth 5 in a wireless access point is limited to very few OEMs. These features are also not required in this project. We are requesting you to kindly remove these specification for fair & health competition & participation of multiple OEMs.	As per RFP
37	5.6.1 Specifications of Wi-Fi Access Point Page: 29	Antenna: Minimum 4dBi in 2.4GHz	<p>Since you have asked for "The Max transit power of the AP + Antenna should be as per WPC norms for indoor Access Points", so it is not required to specify antenna gain. Different OEMs can have reduce antenna gain but more radio output power resulting same maximum transmit power of AP. So we are requesting you to kindly delete the antenna gain parameters from the specification.</p> <p>Also we would like to highlight that at 2.4GHz radio have more coverage compared to 5GHz radio. If you still want to mention the antenna gain, than it should be 3.5dBi. Kindly modify the specification accordingly.</p>	As per RFP

38	5.6.1 Specifications of Wi-Fi Access Point Page: 29	It should be Auto-sensing 10/100/1000 Ethernet PoE with standard 802.3af and should have console access	<p>1. Total 1700Mbps/1.7Gbps wireless bandwidth is asked in the access point, but uplink port is asked with 1000Mbps speed. So this is a bottleneck configuration. We are requesting you to kindly add one more additional Multi-Gig port of 2.5Gbps speed (2.5GBaseT) in the access point to avoid this bottleneck. All the OEMs have access point with multigig port in their WiFi6 AP portfolio.</p> <p>2. WiFi6 access points generally works on IEEE 802.3at PoE+ standard. therefore we are requesting you to kindly change the specifications as below: "It should have 1nos. Auto-sensing 10/100/1000BaseT port &amp; 1x 2.5GBaseT Ethernet PoE/PoE+ with standard 802.3af/802.3at and should have console access"</p>	See the revised sepecification in corrigendum
39	5.6.1 Specifications of Wi-Fi Access Point Page: 29	Compliance: It should have Regulatory Certification IEC 60950, IEC 60950-1/WEE/ROHS.	<p>Certification should not be limited to only these specified certificates. All the equivalent certificates should also be acceptable.</p> <p>We are also requesting you to include WiFi6 certification from WiFi Alliance for better interoperability from different wifi clients.</p>	As per RFP
40	5.6.2 Specifications of GB-FC Transceiver (MM) Page: 30	GB-FC Transceiver (MM)	Please clarify if it is 1000BaseSx multimode LC SFP Transceivers.	See Corrigendum
41	5.6.2 Specifications of GB-FC Transceiver (MM) Page: 30	Features: Should be of same make as the core switch	Kindly specify the Make & Model of Core switch	See Corrigendum
42	1. 9 U Network Rack with cable manger as per number of edge Switch Page: 32		There is no specifications mentioned for edge switches.	Clarified above