

INDIAN INSTITUTE OF TECHNOLOGY PATNA

(Store & Purchase Section)

Corrigendum-III

Date: 10.03.2022

Subject: Notice Inviting Tender (NIT) for supply of “Active Components for upcoming buildings” to IIT Patna.

Tender Reference No.: IITP/S&P/EPR/1/CC-70/2021-22, Dated: 25.01.2022.

Tender ID: 2022_IITP_670692_1.

1. Modifications:

Sl. #	Page #	Section/Para/Clause No	Clause mention in a tender	Remarks/Clarification /Amendment Request	IITP Response
1	5 of 47	Annexure I(a), Specifications, Distribution Switch	Should support minimum 4K active VLANs	Requesting you to please amend the clause as - "Should support minimum 4K VLAN IDs with min. active VLANs as 1000"	Should support minimum 4K VLAN IDs.
2	7 of 47	Annexure I(b), Specifications, Access Switch (PoE/PoE+)	Forwarding Capacity: Should provide wire-speed packet forwarding of 98 Mpps or more.	As per mathematical calculation for 128Gbps switching bandwidth - the forwarding rate comes out to be 95Mpps Request you to please amend the clause as - "Forwarding Capacity: Should provide wire-speed packet forwarding of 95 Mpps or more."	Forwarding Capacity: Should provide wire-speed packet forwarding rate - minimum 65 Mpps for 24 Port and 95 Mpps for 48 port.
3	5 of 47	Annexure I(a), Specifications, Distribution Switch	The switch should support MTBF of 300,000 hours (minimum)	Request you to please amend the clause as - "The switch should support MTBF of 245,000 hours or 27years (minimum)"	The switch should support MTBF of 245,000 hours or 27years (minimum)
4	5 of 47	Annexure I(a), Specifications, Distribution Switch	Configurable at least 8000 MAC addresses or more	Requesting you to please remove this clause - duplicate clause below on MAC addresses	Accepted
5	7 of 47	Annexure I(b), Specifications, Access Switch (PoE/PoE+)	Switch should support minimum 4K Active VLANs	Request you to please amend the clause as - "Switch should support minimum 4K VLAN IDs and min. 512 SVIs"	Switch should support minimum 4K VLAN IDs
6	9 of 47	Annexure I(c), Specifications, Access Switch (Non-PoE)	Switch should support minimum 4K Active VLANs	Request you to please amend the clause as - "Switch should support	Switch should support minimum 4K VLAN IDs

				minimum 4K VLAN IDs and min. 512 SVIs"	
7	12	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM:	Operating temperature : -20 to +85 Deg C	Request to please change it to -10 to + 60 Deg C. Reason for change: If this panel is to be used for indoor, then +85Deg Temp. rating is not required. Its generally required for IP40 or higher type of outdoor panels.	Operating Temp: -20 Degree C to +60 Degree C
8	12	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM:	MM connectors: 500 cycles, Beige	Request to please remove this clause. Reason for change: This is applicable for Multi Mode Solution, but here solution is Singlemode	Accepted
9	12	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM:	Mounting brackets to be placed in different positions	Request to please remove this clause. Reason for change: Standard Mounting Brackets are 1U (1.75").	Accepted
10	13	LC to LC Patch Cord SM	Cable Diameter : 1.8 mm mini twin zip	Request to change it to 2.0mm. Reason for change: 2.0 mm is most standard construction and available with most of the OEMs	Cable Diameter : Minimum 1.8 mm mini twin zip
11	13	LC to LC Patch Cord SM	Buffer : .6 mm	Request to change it to 0.9mm. Reason for change: For for Tight Buffer Fibers, Diameter is 0.9mm (900um)	Buffer : Min .6 mm
12	14	12/24 Core Fiber Optic outdoor armored cable Single mode (SM)	IEC 60332-1, Core should be Silica Glass or equivalent.	Request to please remove the standard IEC 60332-1. Reason for change: IEC 60332-1 is not applicable on HDPE jacket.	IEC 60794-1, Core should be Silica Glass or equivalent.
13		Performance(RFP Page#7,8,9 and 10)	Forwarding Capacity: Should provide wire-speed packet forwarding of 98 Mpps or more.	74 should be the Forwarding Considering when switching capacity is 100Gbps.This is basis of standard calculation.	Forwarding Capacity: Should provide wire-speed packet forwarding rate - minimum 65 Mpps for 24 Port and 95 Mpps for 48 port.
14		Layer 2 features(RFP Page#7,8,9 and 10)	Switch should support minimum 4K Active VLANs	4K VLAN is much higher for access layer switch.Request to please change this as "Switch should support minimum 2K Active VLANs"	Switch should support minimum 4K VLAN IDs

15		Annexure 1C	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM: Operating Temp: -20 Degree C to +85 Degree C	Request to correct the temperature limit in line with enterprise grade products. The given limit (upto 85 Deg C) is for severe industrial environments. Please amend this as – Operating Temp: -10 Degree C to +60 Degree C	Operating Temp: -20 Degree C to +60 Degree C
16	13, 14	Annexure 1C	12/24-Core, Single mode Armored:	Request to delete the standard “IEC 60332-1” or amend it as “IEC 60794-1”. Since HDPE jacket cable is asked for, IEC 60332-1 would not be applicable, since this is a flame rating standard for LSZH cables. Hence request to correct the standard as IEC 60794-1, which is generic construction standard for armored fiber cables.	Armor Corrugated Steel tape Armor, HDPE Outer Jacket, Aramid yarn as a strength member Gel filled Loose Tube, minimum installation bend radius- 200mm, Fiber Core should be Silica Glass or equivalent Fiber Core, standard factory of cable drum, RoHS compliant, IEC 60794-1, Core should be Silica Glass or equivalent.
17	27	GENERAL TERMS & CONDITION; Annexure -IV; point no-5; Delivery	unless otherwise stated delivery and installation of goods shall be at IIT Patna and will have to be effected maximally within 04 weeks from the date of issue of the Purchase Order	We would like to request you kindly amend the clause “unless otherwise stated delivery and installation of goods shall be at IIT Patna and will have to be effected maximally within 28 weeks from the date of issue of the Purchase Order.” Due to material shortages across the semiconductor industry production delayed because of a lack of semiconductors, triggered by the Covid 19 pandemic and exacerbated by other factors. That’s why minimum delivery period is 28-30 weeks.	unless otherwise stated delivery in 15 weeks and installation of goods shall be at IIT Patna and will have to be effected maximally within 23 weeks from the date of issue of the Purchase Order.

18	12	Annexure 1C	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM: Operating Temp: -20 Degree C to +85 Degree C	Request to correct the temperature limit in line with enterprise grade products. The given limit (upto 85 Deg C) is for severe industrial environments. Please amend this as – Operating Temp: -10 Degree C to +60 Degree C	Operating Temp: -20 Degree C to +60 Degree C
19	13	Annexure 1C	LC to LC Patch Cord SM Buffer: .6 mm	Given value seems to be a misprint. Please correct the buffer size as 0.9mm. All standard fiber buffer is of 900 micron or 0.9mm.	Buffer: .6 mm (Minimum)
20	7 of 47	Annexure I(b), Specifications, Access Switch (PoE/PoE+)	Forwarding Capacity: Should provide wire-speed packet forwarding of 98 maps or more.	As per mathematical calculation for 128Gbps switching bandwidth - the forwarding rate comes out to be 95Mpps Request you to please amend the clause as - "Forwarding Capacity: Should provide wire-speed packet forwarding of 95 Mpps or more."	Forwarding Capacity: Should provide wire-speed packet forwarding rate - minimum 65 Mpps for 24 Port and 95 Mpps for 48 port.
21	15	TECHNICAL SPECIFICATION FOR 3 and 1 KVA ONLINE UPS	Certification : UPS Should have Certified with ISO and BS OHSAS 18001 - 2007	We would like to request you kindly remove BS OHSAS 18001 – 2007 and added ISO 45001. Because ISO 45001 is the latest version of OHSAS.	Certification : UPS Should have Certified with ISO 45001
22	27	Milestone : Point No.5	Delivery of required Hardware components (Active and Passive): Within 4 (Four) weeks from LOA.	Currently there is a global shortage of semiconductor chips due to which delivery of products are taking a minimum of 15 to 20 weeks. So we would request IIT Patna to change the clause as suggested below : Delivery of required Hardware components (Active and Passive): Within 15 (Fifteen) weeks from LOA.	4(Four) weeks may be read as 15 (Fifteen) weeks

23	27	Milestone : Point No.6	Implementation (installation, configuration and integration with existing infrastructure): Within 8 (Eight) weeks from LOA	Hardware Installation and configuration will start after the product will be delivered at location. So we are requesting for a change in the delivery timeline as suggested below: Implementation (installation, configuration and integration with existing infrastructure): Within 8 (Eight) weeks from delivery of required hardware components (active & passive)	" 8 (Eight) weeks from LOA" may be read as " 8 (Eight) weeks from delivery of required hardware components (active & passive)"
24	27, 28	Milestones : Point No.8, 9 & 10	8. Completing implementation activities and Go-Live: Within 9 (Nine) weeks from LOA9. Completing acceptance testing: Within 10 (Ten) weeks from LOA10. Submission of acceptance testing reports, all project documentation & installation reports: Within 11 (Eleven) weeks from LOA.	We would request for the delivery milestones to be suitably amended in relation with the abovementioned milestones 5 & 6 as suggested below:8. Completing implementation activities and Go-Live: Within 24 (twenty four) weeks from LOA9. Completing acceptance testing: Within 25 (twenty five) weeks from LOA10. Submission of acceptance testing reports, all project documentation & installation reports: Within 26 (twenty six) weeks from LOA.	Accepted

2. Clarifications:

Sl. #	Page #	Section/Para /Clause No	Clause mention in a tender	Remarks/Clarification /Amendment Request	IITP Response
1	5	9	Switching Bandwidth: Should have stacking facility with dedicated stacking port and support minimum total stacking bandwidth of minimum 200 Gbps or more.	Clarification required: This point mentioned is for stacking bandwidth or switching bandwidth? Please clarify.	stacking bandwidth
2		Annexure 1C	12/24/48 port Fiber Optic LIU with Pigtailed, Splice Trays & Splice Protectors (Fully Loaded) SM:	Since the LIU would be used to terminate metallic armored fiber cable, please confirm if the LIU need to be pre-fitted with grounding lugs, which is	May be provided by vendor

				highly recommendable for safe installation.	
3		Annexure 1C	LC to LC Patch Cord SM	Please confirm if the patch cord need to be "Bend insensitive as per G.657.A1 standard" to mitigate macro bending losses at switch / panel ports.	May be provided by vendor
4	31	15. Additional Requirement for all active components:	1. It should seamlessly integrate with the existing network backbone and infrastructure locally (Bidder is entirely responsible for gathering such information in comprehensive manner).	Kindly share existing infra details like (Switch, Router, etc make model, Interface type for Integration. and protocol running Open standard & Proprietary)	For network detail, it is recommended for site survey to know the physical network infrastructure.
5	25	Annexure-IV GENERAL TERMS AND CONDITIONS	20. The bidders can quote only those products in the bid which are not obsolete in the market and has at least 3 years residual market life. Moreover, the bidder are bound to supply the spares till 10 years from the date of installation, on the same payment terms.	Generally all OEMs provides support for 5 years after 'end of sale' date for any product. Further, OEMs need to check the individual 'EoS' dates for every individual product to confirm the total support period. However, providing a 10 years confirmation will not be feasible at the time of bidding. So kindly amend the clause and allow submission of the proposal with a standard 5 years support from OEMs.	The quoted products must not be declared EoS (End of Sale).
6	27	Essential Eligibility of Applicant	1. The applicant should have at least five years of experience in implementation of Information and communication technology service and solution for hardware and software. The applicant must provide self-attested year wise experience details and Annexure-X/XI.	We request IIT Patna to kindly allow the compliance basis the documentary evidence from the Bidder OR Bidder's Parent Company (in case the Bidder is a wholly owned subsidiary of Parent Company). Please confirm the acceptance of our request.	It will be based on the documentary evidence submitted by the bidder.
7	27	Essential Eligibility of Applicant	2. For the financial and operational stability, the applicant should have an average annual turnover of the last three financial years of at least INR 5.00 (Five) Crore. The CA certified	We request IIT Patna to kindly allow the compliance basis the documentary evidence from the Bidder OR Bidder's Parent Company (in case the Bidder is a wholly	It will be based on the documentary evidence submitted by the bidder.

			financial statements must be provided along with Annexure-IX.	owned subsidiary of Parent Company). Please confirm the acceptance of our request.	
8	27	Essential Eligibility of Applicant	3. The applicant should have a successful track record, and should have at least one implementation of similar work of minimum value INR 1 Crore in IIT, NIT, IISER , institute of national importance, PSU during the financial year 2015-2021. The applicant must provide the relevant PO's/Letter of award of work and completion certificate for the same.	We request IIT Patna to kindly allow the compliance basis the documentary evidence from the Bidder OR Bidder's Parent Company (in case the Bidder is a wholly owned subsidiary of Parent Company).Please confirm the acceptance of our request.	It will be based on the documentary evidence submitted by the bidder.
9	34	Annexure-VIII	PRE CONTRACT INTEGRITY PACT	Please clarify if the Pre-Contract Integrity Pact needs to be submitted on Company Letter Head or Non-Judicial Stamp Paper.	On Non Judicial Stamp Paper
10	xx	xx	xx	There is only Cat6 Patch Cords in BoQ and Spec. but Cat6 Cables, Cat6 Modular Jacks, Panels etc. are not there. Request advise whether it is also required or not.	Not required
11	12	Annexure 1C	12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM:	Since the LIU would be used to terminate metallic armored fiber cable, please confirm if the LIU need to be pre-fitted with grounding lugs, which is highly recommendable for safe installation.	May be provided by vendor

Other terms and conditions remain unchanged.