INDIAN INSTITUTE OF TECHNOLOGY PATNA

(Store & Purchase Section)

Corrigendum-IV

Date: 14.11.2022

Subject: Expression of Interest (EoI) for **"Study, Implementation, Testing and Commissioning of Data and Telephone Network for Upcoming Sites at IIT Patna"**.

EOI Reference No.: IITP/S&P/EPR/1/CC-88/2022-23, Dated: 20.09.2022.

Tender ID: 2022_IITP_713576_1.

Table 1: Modifications summary

SI.	Page	Section	Original Clause	Modification Clause	Justification
NO.	No.	Section			
			Sl no 1.	SI No 1.	Sl. No 1 is
			Valid ISO and CMMI certification -	Valid ISO and CMMI certification -	correction. Sl. No 4
			ISO/IEC 20000-1 international	ISO/IEC 20000-1 international	considering 2 year
			standard for IT service	standard for IT service	covid pandemic
			management, ISO 9001:2000, ISO	management, ISO 9001:2000, ISO	induced lockdown.
			9001:27000 and CMMI level 3. The	27000 and CMMI level 3. The	
			relevant certification document	relevant certification document	
			with validity must be presented.	with validity must be presented.	
1	6	4	SI No. 4.	SI No 4.	
-			The Bidder must have experience in	The Bidder must have experience	
			executing at least two similar	in executing at least two similar	
			projects (Value, number of nodes	projects (Value, number of nodes	
			and equipment) within the last 03	and equipment) within the last 05	
			(Three) years. The bidder must	(Five) years. The bidder must	
			produce the supporting documents	produce the supporting	
			Works order/purchase order and	documents Works order/purchase	
			completion/performance	order and	
			certificates.	completion/performance	
				certificates.	
			Modification in Broad Scope Of	New boys hostel has been added	The Boys Hostel is
2	8	5	Work	to the upcoming building. Details	live now.
				given in Table 2 below.	

			SI No 3.	Sl. No 3.	General
			The devices in the network should	The devices in the network should	Modifications in
			have full IPv6 functionality.	have full IPv6 functionality with	architecture for
				SDN capability.	improving the
					overall solution
			SI No 6.	SI. No 6.	and including
			The architecture should support	The architecture should support	features for future
			separate, dedicated data, control,	separate, dedicated data,	functionality.
3	11	7	and management planes.	control/management planes.	. anotionality.
			SI No 7.	Sl. No 7.	
			The architecture should support In-	The architecture should support	
			service software upgrade which will	In-service software upgrade at the	
			allow seamless upgrades with no	distribution layer which will allow	
			traffic loss or performance impact.	seamless upgrades with no traffic	
				loss or performance impact.	
		1	Modification in List of estimated	Details given in Table 3 below.	General
			items- Active Network Equipment		modifications based
4	11	7.1			on technical inputs
					received during pre-
			Modification in NMS/EMS support:	The active components must be	bid query. General
			The active components must be		modifications based
				• · · · · · · · · · · · · · · · · · · ·	
			existing NMS/EMS (Cisco Prime	Prime Infrastructure 3.1.0 and	
			Infrastructure 3.1.0 and Cisco Data		bid query.
			Center Network Manager for LAN	Manager for LAN (DCNM-LAN) or a	
			(DCNM-LAN) or a campus hosted	campus hosted centralized H/W or	
			centralized H/W or S/W based	S/W based NMS/EMS must be	
			NMS/EMS must be provided at no		
			extra cost with following features:	 Real-time monitoring of network status, traffic 	
			 Real-time monitoring of network status, traffic 	patterns, client	
			patterns, client	connectivity, access point	
			connectivity, access point		
			and wireless controller	status, and alarms.	
			status, and alarms.	 Object management 	
			 Object management 	State management	
4	12	7.2	State management	Notification management	
'		,.2	Notification management	 Performance management Eault management 	
			Performance management Fault management	 Fault management Device configuration 	
			 Fault management Device configuration 	management, management	
			management,	of release, upgradations,	
			management, of release,	patches etc.	
			upgradations, patches etc.	 Rapid and comprehensive 	
			Rapid and comprehensive	switch, endpoint, and Layer	
			switch, endpoint, and Layer	2 device connectivity	
			2 device connectivity	discovery	
			discovery	 Security alarms, including 	
			• Security alarms, including	rogue access points, DoS and probe attacks	
			rogue access points, DoS	 Any other value-added 	
			and probe attacksAny other value-added	services.	
			services.	The commercial implication of	
				additional licenses/subscription	
				etc should be indicated.	
			General Technical Specifications for	OEM should have RCDD certified	For improving the
5	13	7.4	Passive Cabling and Accessories:	manpower in India for providing	quality of passive
	10	,		design & training support.	networking design.
			1		

SI No	UPCOMING BUILDING	ZONE	Tentative IO port requirements	Estimated number of IO ports existing
			427	
1	Girls Hostel new*	HOSTEL	Nodes required for Wifi AP and Telephone)	234
2	Married Scholar Hostel	HOSTEL	128	128
3	WORKSHOP- CIVIL	ACADEMIC	15	10
4	WORKSHOP- MECHANICAL	ACADEMIC	15	10
5	WORKSHOP- CHEMICAL	ACADEMIC	15	10
6	D-type qtr- D5, D6, D7	RESIDENTIAL	156	144
7	Guest House	RESIDENTIAL	286	89
8	C-Type QTR-C3, C4	RESIDENTIAL	180	168
9	A-Type QTR-A1	RESIDENTIAL	168	162
10	B-Type QTR-B5	RESIDENTIAL	150	144
11	New Boys Hostel*	HOSTEL	1109 (Nodes required for Wifi AP and Telephone)	367
			2649	1466
	Expected number of IO port	ts that needs to		
	be deployed along with pas and cabling accessories for	-		742

Table 2: Modified site wise data table:

*Number of data nodes mentioned for hostel, however a complete wifi solution has to be provided. **The existing ports/nodes must be properly tested with penta-scanning. For non-working ports found during testing, corresponding surface cabling needs to be done.

Table 3: Modified List of estimated items- Active Network Equipment

Link capacities:

Between Core and Distribution layer: 40G

Between Distribution and Access layer: 10G

Between Access Layer and Data ports: 1G

Between Access layer and Wifi Access Points: 1G from day 1, scalable to Multigig.

SI. No.	Item	Quantity (approx.)
1.	Distribution Switch - Min. 12/24 X 1/10 data ports - 2 X 40G uplink - L2/L3 - managed - stackable-Rack-mountable 1U	
2.	24-port Access switch (Non-PoE) stackable, with sufficient number of stack cable	
3.	48-port Access switch (Non-POE) stackable, with sufficient number of stack cable	
4.	24-port Access switch POE/POE+ stackable, (with sufficient number of stack cable)	
5.	48-port Access switch POE/POE+ stackable, (with sufficient number of stack cable)	

6.	Basic IP Phone with all accessories and licenses required for call manager	
7.	Wifi access points - Wif6 capable, 4X4 MU MIMO at 5Ghz and Min. 2X2 MIMO at 2.5 Ghz, indoor with optional external antenna. Should be capable of working in both on-premise controller based or controller less deployments. Controller deployment from day 1. For controllerless deployments, it must have inbuilt controller capabilities to handle at least 50 APs. For cloud based controller/wifi management, the CSP must be in the MEITY approved list and OEM declaration needed that all data resides in datacenters in India. Backward compatibility with Wifi5.	
8.	Single mode SFP/SFP+/SFP28 Module of requisite capacity for distribution switch uplinks for connecting with core switch. SFP must be from the same OEM as switch or OEM certified.	
9.	Single mode SFP/SFP+/SFP28 Module of required capacity for distribution switch downlinks and access switch uplinks. It must be from the same OEM as switch or OEM certified.	

Other terms and conditions remain unchanged.