



भारतीय प्रौद्योगिकी संस्थान तिरुपति

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NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF WIRED ACTIVE COMPONENTS

(E-PROCUREMENT MODE ONLY)

CORRIGENDUM-V

S.No.	TENDER CLAUSE NO.	In place of	To be read as
1	Corr: I, Pg. No. 16, Item No. 3) 48-port MGig access switch, S.No. 2b	Switch shall have minimum 32K MAC Addresses and 4K active VLANs	Switch shall have minimum 32K MAC addresses and 4K VLAN IDs
2	Corr: I, Pg. No. 18, Item No. 4) 24-port MGig access switch, S.No. 2b	Switch shall have minimum 15K MAC Addresses and 4K active VLANs	Switch shall have minimum 32K MAC addresses and 4K VLAN IDs
3	Corr: I, Pg. No. 7, N/w functional req. (S.No. 17)	Separate (respective) stacking for mGig switches and other switches. uplink modules and uplink ports to be provided accordingly	Stacking across 24-port and 48-port mGig access switches to be compatible. Stacking across 24-port and 48-port PoE (non-mGig) and NPoE access switches to be compatible.
4	Corr: I, Pg. No. 4, N/w functional requirements (S.No. 19)	Distribution racks wherever connected by 1:1 inside building are located by more than 50m, therefore, stacking cables to be provided separately	This clause is removed.
5	S.No.3, Pg. No. 1, i) in Corr: II, N/w functional req. (associated with new clause addition S.No. 21 in Corr. I)	i) The proposed solution should support all required features to perform above mentioned capabilities for up to 10,000 endpoints with license for 5,000 endpoints from day one.	i) The proposed solution should support all required features to perform above mentioned capabilities with below perpetual licenses from day one: Authentication and access for 6,000 concurrent users, BYOD/Onboarding personal devices-1,000 (floating license type), and Posture/Health check devices-1,000 (floating license type).
6	S.No.3, Pg. No. 3&4, xv) in Corr: II, N/w functional req. (associated with new	xv) Shall support following operating systems for endpoint posture checking - Microsoft	xv) Shall support following: operating systems for endpoint posture checking - Microsoft Windows, Apple macOS ,

	clause addition S.No. 21 in Corr. I)	Windows 7, Apple macOS , Linux - Ubuntu , Linux - RHEL, and Linux - CentOS for security posture checking .	Linux - Ubuntu , Linux -RHEL, and Linux -CentOS/SUSE for security posture checking.
7	S.No.3, Pg. No. 4, in Corr: II, N/w functional req. (associated with new clause addition S.No. 21 in Corr. I), New sub-clause xvi) added.		xvi) The aforementioned solution to work with 3rd party (other OEM) switches and APs. Furthermore, by any chance, the OEM does not have this as an integrated solution, as a special case applicable only to the NAC clause, a third party NAC solution can be used with the mentioned licensing features and functionalities.
8	Pg. No. 11 in Corr: 1, Item 1: Core switch (S.No. 1k)	Along with Core Switch for HA connectivity, about 12 numbers of 100G DAC cable (for current use + spare) to be included along with the hardware	Two core switches within the same rack are to be configured in HA connectivity with a minimum of 400Gbps duplex backplane bandwidth by using 2 nos of 100G 5meters-DACs/transceivers on day1. In addition, 2 numbers of 100G 5meters-DAC/transceivers as spare, and 2 nos of 10G DAC/transceivers (or 2 nos 5m splitter cable 40G to 4nos 10G) for connecting to WLCs to be supported and included with no additional cost, on day 1.
9	Pg. No. 11 in Corr: I, Item 1: Core switch (S.No. 3c)	Switch should support routing protocols like BGPv4, OSPF(v2, v3), ISISv4, RIP, Static, VXLAN, EVPN, PIM, SSM, BFD, VRF aware BFD, IEEE 802.1ae from day 1 on the same hardware	Switch should support routing protocols like BGPv4, OSPF(v2, v3)/ISISv4, RIP, Static, EVPN, PIM, SSM, BFD, VRF aware BFD, IEEE 802.1ae/VXLAN from day 1 on the same hardware.
10	Pg. No. 11 in Corr: I, Item 1: Core switch (S.No. 4e)	Switch should support IEEE 1588	Switch should support IEEE 1588 or equivalent NTP/SNTP.
11	Pg. No. 12 in Corr: I, Item 1: Core Switch (S.No. 5d)	Switch should support 802.1x for user authentication and authorization, Dynamic vlan assignment, Guest VLAN assignment, MAC based authentication	This clause is removed.

12	S.No. 16, Pg. No. 6 in Corr: II, Item 1- Core switch (S.No. 5e)	Switch should support real time data collection with line rate hardware based netflow/sFlow/Jflow up to 300 K authentication. However, to meet the functional requirement of up to 300K the solution can use 1 or more box.	Switch shall support application visibility and traffic monitoring with minimum 300 K netflow/jflow entries, or with minimum sampling rate of 4096 in case of sflow.
13	Pg. No. 12 in Corr:I, Item 1: Core switch (S.No. 5g)	Switch should support AES 256 for link encryption	Switch should support AES 256 for link encryption, or VXLAN overlay.
14	Pg. No. 13 in Corr: I, Item 2: 48-port Distribution switch (S.No. 1b)	Switch should have: 2) 4x40/100G ports populated with required 40/100G transceivers/DAC cables for creating the HA using stacking/virtual stacking.	Switch should have minimum 4x40/100G ports, for creating the HA (within the rack) using stacking/virtual stacking. SM Transceivers for 40G uplinks to be provided (as per the count and spec. mentioned in tender clause S.No. 9) in Day 1. In addition, i) 6 nos of 5meter-100G DAC cables/transceivers for stacking for a minimum of two distribution switches within each rack for a total of 6 such racks, ii) 8 Nos of 40G MM transceiver modules (min. 500mtrs) for connecting two nos. distribution racks to the core switch (located within the building) to be included with no additional cost in Day1.
15	Pg. No. 13 in Corr: I, Item 2: 48-port dist. switch (S.No. 1e)	Switch shall have min. 64GB SSD for hosting container applications or internal storage	Switch shall have min. 32GB SSD/flash for hosting container applications or internal storage.
16	S.No. 23, Pg. No. 7 in Corr: II, Item 2: 48-port dist. switch (S.No. 2d, Pg. No. 14)	Switch shall support application visibility and traffic monitoring with minimum 50 K sflow/jflow/netFlow entries. However, to meet the functional requirement of upto 50K entries, the solution can use 1 or more boxes.	Switch shall support application visibility and traffic monitoring with minimum 50 K netflow/jflow entries, or with minimum sampling rate of 4096 in case of sflow.
17	Pg. No. 14 of Corr: I, Item 2: 48-port dist. switch (S.No. 3a)	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.1ae (256-bit and 128-bit AES), 802.3x, 802.1p, 802.1Q, 1588v2	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.1ae (256-bit and 128-bit AES)/VXLAN overlay, 802.3x, 802.1p, 802.1Q, 1588v2/NTP/SNTP.
18	Pg. No. 14 of Corr: I, Item 2: 48-port dist. switch (S.No. 3b)	Switch should support routing protocols like BGPv4, OSPF(v2, v3), ISISv4, RIP, Stati, VXLAN, EVPN, PIM, SSM, BFD, VRF aware BFD, IEEE 802.1ae from	Switch should support routing protocols like BGPv4, OSPF(v2, v3)/ISISv4, RIP, Static, EVPN, PIM, SSM, BFD, VRF aware BFD, IEEE 802.1ae/VXLAN overlay from day 1 on

		day 1 on the same hardware	the same hardware.
19	S.No. 28, Pg. No. 7 in Corr: II: related to the following items Corr: I (S.No. 1e, Pg. No. 16), (S.No. 1e, Pg. No. 18), (S.No. 1e, Pg. No. 20), (S.No. 1e, Pg. No. 22), and S.No. 9, Pg. No. 2 in Corr: I (Item No. 7, S.No. 1d of 48-port Non-PoE switch)	Should support a minimum 320 Gbps of stacking throughput per switch, with up to 4 switches in a single stack. Required modules and cables to be provided from Day 1	Should support a minimum 200 Gbps of stacking throughput per switch, with up to 4 switches in a single stack. Required modules and cables to be provided from Day 1.
20	S.No. 29, Pg. No. 7 & 8, in Corr: I, associated with following items In Corr: I (S.No. 2e, Pg. No. 16), (S.No. 2e, Pg. No. 18), (S.No. 2e, Pg. No. 21), (S.No. 2e, Pg. No. 22), (S.No. 2e, Pg. No. 24), (S.No. 2e, Pg. No. 26), (S.No. 2e, Pg. No. 29)	Switch should support at least 15K sflow/Jflow/Nflow entries. However, to meet the functional requirement of upto 15K entries, the solution can use 1 or more boxes.	Switch should support at least 15K netflow/jflow entries, or with minimum sampling rate of 4096 in case of sflow.
21	S.No. 14, Pg. No. 2 in Corr: I, Item 13: 8-port PoE+ access switch (S.No. 2a)	Switch shall have minimum 56 Gbps of switching fabric and 46 Mpps of forwarding rate.	Switch shall have minimum 56 Gbps of switching fabric and 45 Mpps of forwarding rate.

Important Note: All of the aforementioned clauses and their changes are to be applied to their respective clauses in “Technical Compliance” Sections of the applicable Corrigendum I (Corr. I), Corrigendum II (Corr. II), and the original tender document.

**Sd/-
Deputy Registrar**