13 – December – 2023

Corrigendum: Eligibility and Technical Criteria

Tender ID on Portal: 2023_IISC_782894_1
Tender Reference No.: IISc/IDS/2023/Network
"Supply, installation, testing and commissioning of Networking Infrastructure at Smart X building of IDS, IISc, Bangalore"

The following criteria are being modified or added to the original tender with ID as stated above (original upload date 29 Nov. 2023) through this corrigendum.

In bidder's eligibility criteria (section 6.1 in original tender) the following changes are included (highlighted in yellow) and some statements have been removed (highlighted in blue) –

1. The following statement is added to the tender – Bidders belonging to either Class-1 or Class-2 suppliers distinguished by their "local content" as defined by recent edits to GFR are encouraged to apply as per GoI guidelines. They should mention clearly which class they belong to in the cover letter. a) Class-1 supplier: Goods and services should have local content of equal to or more than 50%. b) Class-2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.

2. The bidder (Tier-1/Tier-2/Highest level System Integrator (SI) partner of the OEM) must have successfully completed/ongoing three Wireless LAN Access Infrastructure (Wi-Fi / WIPS Solution) implementations in India in the last five years of which one must be Wi-Fi & WIPS Solution. The value of any one turnkey solution implemented must be at least Rs. 7 crores, or any two turnkey solutions must be at least Rs. 4 crores each, or any three turnkey solutions must be at least 2 crore each. Complete list, along with the contact details of the customers (as mentioned above), must be provided.

3. The bidder must submit Solvency Certificate of at least the total value of estimated cost of the current bid or above from Scheduled Commercial Bank. The Certificate should not older than 12 months

In technical criteria, the following changes are included (highlighted in yellow) –

1. Page 3, in 2.1 Scope of Work - sub clause to point 9: the term "hot-swappable" has been removed.

2. Page 4, 3.1 Active Components /Table 2 List of Active Components / s. no. 9: The specifications are updated to - 48 UTP 10/100/1000 Mbps and at least 24 ports of Mgig (1/2.5Gbps) ports, all 24 ports must concurrently support (1/2.5Gbps),and the switch should have at least 4 SFP+ port layer-2, manageable switch having at least 740 W power budget for POE (Support POE+ on all ports concurrently) with redundant power supply

3. Page 10, 4. Technical Specification for Active Components/ 4.3.5 Certification / i. Updated version is - Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 or EN 62368-1 or IEC-62368-1.

4. Page 12, Technical Specification for Active Components/ 4.4.4 Interface / i. The specifications are updated to - 48 UTP 10/100/1000 Mbps and at least 24 ports of Mgig (1/2.5Gbps) ports, all 24 ports must concurrently support (1/2.5Gbps),and the switch should have at least 4 SFP+ port layer-2, manageable switch having at least 740 W power budget for POE (Support POE+ on all ports concurrently) with redundant power supply

5. Page 12, 4.Technical Specification for Active Components/ 4.4.5 Certification / i. Update is: Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 or EN 62368-1 or IEC-62368-1.

6. Page 13, 4. Technical Specification for Active Components/ 4.5.5 Certification: / i. Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 or EN 62368-1 or IEC-62368-1.

7. Page 15, 4. Technical Specification for Active Components/ 4.6 Wireless Controller/ 4.6.3 Software/ vii. The following statement has been **removed/deleted** from the tender specifications - The controller shall provide per-Client Connection Scoring and provide reasoning of Client Connection Score.

8. Page 17 and Page 36, 5. Technical Specifications Installation and Services/ 5.1 License, Warranty and Support/iii. The total solution should have 3 years' on-site warranty for Access Points, Switches, accessories, and controller, and provide an additional 2-year AMC for all these components.

9. An addition to the features (technical criteria) is: The wireless solution should support RF spectrum analysis on both 2.4GHz & 5GHz band to visualize spectrum analysis as a real-time spectrogram view RF interference, spectum desity and duty cycle of other RF signals.

10. An addition to the features (technical criteria) is: The wireless solution should highlight the reason of client conection failures related to association, authentication and network onboarding of users and specify the exact reason of failure such as association limit,capability mismatch, Radius authentication failure, EAPOL failure, fast roaming failure, Radius server not responsinng, webauth failure, DHCP, DNS , WPA2 4 way handshake, incorrect PSK enetered by user etc.

11. An addition to the features (technical criteria) is: The wireless Solution must support Synthetic client testing by connecitng active sensors/APs to neighborig APs and simulate real-world client experience by running client conectivity test for PSK and 802.1x SSIDs , application reachability, throughput test and voice calls quality testing.

12. An addition to the features (technical criteria) is: The wireless controller should highlight User's application experience/performance for well known Voip based application such as Ms Teams, Skype, Zoom,Hangout, Webex etc.

13. An addition to the features (technical criteria) is: The Wireless solution should provide recommendations of possible actions that can be taken for remediations of client's perfromance impacting issues.

14. An addition to the features (technical criteria) is: The controller should provide automatic packet capture upon detecting anamoly in client connectivity or onboarding issues for forensic analysis.

15. Page 6, section 4.1, point viii. Access Point shall be able to support Multigigabit Ethernet, support up to 2.5 Gbps PHY speed using single Cat5e or above (Cat6, Cat6a, Cat7) cable.

16. Page 6, section 4.1, point xiv. Access Point should have 1x 2.5gig Multigigabit Ethernet (RJ- 45) – IEEE 802.3bz

17. Page 6, section 4.1, point xvii. Must support data rate up to 2.5 GBPS.

18. Page 15, section 4.6.3, point vi. The controller can optionally support multi-language options from embedded GUI Management, but must at the very least support English language.

19. Page 9, Access point type-1, 4.1.xii. The statement is amended to - Access Point shall support spectrum monitoring capabilities, WIPS, and off-channel RRM using the same client-serving radios.

20. Page 18, wireless controller, section 4.6.6 iii. The following statement is **removed/deleted** - The controller shall provide policy-based mDNS gateway including Chromecast gateway

21. Page 6, section 4.1 xii. The statement has been modified to - ==Access Point should support dedicated or shared radio to achieve spectrum analysis without affecting the WiFi Performance==.

22. In Non PoE Switch QN-SW-330-48-AA Qty : 22. The following has been **removed/deleted** – ==REP PIM==.

23. In Multi gig PoE Switch with RPS QN-SW-425-48FP Qty : 20. The following has been **removed/deleted** – ==REP PIM== and ==RPS==.